

MRXBOX HYBRID COOLING (MRXBOX-ECO5-AECV) USER GUIDE

Your home has been fitted with a mechanical heat recovery ventilation (MVHR) system with cooling module, MR-ECO-COOL-V.

The system operates by continuously extracting air from the kitchens and wet rooms of your property (e.g. bathrooms, ensuite, utility areas). Simultaneously the MVHR draws air from outside, filters it and either, passes it through a heat exchanger to temper it before supplying the air to the habitable rooms (i.e. bedrooms and living rooms), or bypasses the heat exchanger on warmer days.

The MVHR constantly monitors inside and outside temperatures and aims to maintain a comfortable indoor temperature at all times. If "Winter Mode" is selected on the Summer/Winter switch, the MVHR will recover heat at all times. Selecting "Summer Mode" means that the MVHR will target a lower internal temperature during the warmer months.

In addition to extracting moisture laden air from kitchens and wet rooms to improve internal air quality, protecting the internal fabric from condensation and providing a healthier living environment, the system will also cool supply air on the warmest days.

Your ventilation system is fitted with a cooling module which cools air supplied to living rooms and bedrooms and exhausts unwanted heat to atmosphere.

The MR-ECO-COOL-V is not an air conditioning unit, but it will significantly reduce the temperature of the fresh supply air during the hottest days of summer.

How does it work?

Your ventilation system will have been commissioned before occupancy to supply air to and extract air from rooms at rates appropriate to the size and type of room (as stipulated by the building regulations).

The system will run continuously at a background rate unless there is a need for a higher ventilation rate.

The unit has a built-in humidistat which may be used to activate boost mode automatically or the system may be boosted when bathroom or WC lights are switched-on, or by a boost switch in the kitchen. Once humidity levels have dropped (if operated by integral humidistat), bathroom or WC lights, or kitchen boost switch is switched-off, the unit will return to running at the background rate.



Cooling mode:

If the temperature of the room exceeds the set point, the ventilation rate will increase to a level above the boost rate and cooling will be activated.

When the indoor temperature drops below the set point, the cooling module will automatically turn off and ventilation unit will return to background or boost speed (depending on whether boost is activated).

The room temperature sensor is factory preset at 23°C but may have been adjusted to a higher or lower temperature during commissioning to optimise cooling operation.

The room temperature sensor also features an "ECO mode" which is pre-set at 25°C (not adjustable) and can be set to operate the cooling module at this temperature for a set period of time between 1 & 24 hours.

To set the ECO mode time period, press the green button followed by the up and down arrows to set the required time period in hourly increments. Allow 5 seconds to pass for the setting to take effect. The display will alternate every 5 seconds between a countdown of the ECO time remaining and the current room temperature.

To exit the ECO mode, press the ECO button.

Switching the wall mounted temperature sensor off, will disable the cooling module only.

Safety information:

The provision of the electrical supply and the connection of the unit to the mains must be carried out by a qualified electrician.

If the supply cord is damaged, it must be replaced by its service agent or similarly qualified persons in order to avoid a hazard

This appliance should not be used by children or persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning the safe use of the appliance by a person responsible for their safety. Children shall not play with the appliance. Cleaning and user maintenance shall not be carried out by children. This unit contains live electrical components, moving parts and refrigerant under pressure. Always site out of reach of children and protect from vandalism and accidental damage.

Do not damage the pipes of the refrigerant circuit.

Do not use the unit if damaged, contact after sales.

In the event of gases escaping from damaged pipework, avoid contact with eyes.

What maintenance is required?

The filters (located on the front of the unit) need to be cleaned or replaced, depending on your environment, every 12-18 months.

For replacement filters either scan the QR code located on the front panel of your unit or contact Nuaire and quote part number **MVHR-ECO3/5-FILTKIT**.

Full extended maintenance instructions can be found in the Installation manual.