

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 set point can be adjusted by pressing the central button and adjusting the temperature using the ▲ & ▼ buttons (temperature range 20 - 40°C)

The temperature sensor also features an ECO mode which increases the room temperature at which the cooling operates by 2°C for a period of time, adjustable between 1 and 24 hours. Once the set period of time has elapsed the cooling will return to being activated at the normal set point.

To set the ECO mode Press the central button twice when the display is off. Using the ▲ & ▼ buttons toggle through the modes to ECO (leaf icon will be displayed), press the central button to select.

Adjust the required time (between 1-24 hours) using the ▲ & ▼ buttons and confirm setting by pressing the central button once. The display will flash the increased ECO set point twice (set point +2°C), before displaying the current room temperature and timing out/switching off.

To deactivate the ECO mode, press the central button twice when the display is off and using the ▲ & ▼ buttons select a different mode, either ON ❄️ or OFF ⏻ followed by the central button to confirm.

Note: if the set point is below the room temperature before ECO mode is activated (i.e cooling module is activated) the unit will run for a minimum of 1 minute regardless of the set point.

Display:

To conserve battery the display will normally be in an off state, to reactivate the display press the button in the center of the unit. The display will appear showing the room temperature. If no other buttons are pressed within 4 seconds the display will automatically time out and return to the off state.

Minimum On/Off Times

To protect the cooling module the controls have been programmed to have a minimum On/Off time.

Minimum On: 1 minute, Once the cooling module is activated it will run for a minimum of 1 minute, regardless of the set point.

Minimum Off: 5 minutes, Once the cooling module stops operating it will remain off for a minimum of 5 minutes, regardless of the set point.

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**.

Room temperature sensor battery:

An icon will be displayed when the battery is running low and needs replacing.

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