

MRXBOX-FF4

First Fix Plenum Chamber

Installation and Maintenance Manual



1.0 IMPORTANT SAFETY INFORMATION

- Ducting must be securely fixed with screws to the spigot to prevent access to live parts. Duct runs terminating close to the fan must be adequately protected by suitable guards.
- 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.

1.1 HAZARD SYMBOLS



REFER TO INSTRUCTION MANUAL

Read and understand the installation and maintenance manual before installing, operating or maintaining this product.

1.2 IMPORTANT INFORMATION

This manual contains important information on the safe and appropriate assembly, transport, commissioning, operation, maintenance, disassembly and simple troubleshooting of the product.

While the product has been manufactured according to the accepted rules of current technology, there is still a danger of personal injury or damage to equipment if the following general safety instructions and the warnings contained in these instructions are not complied with.

- **Read these instructions completely and thoroughly before working with the product.**
- **Keep these instructions in a location where they are accessible to all users at all times.**
- **Always include the operating instructions when you pass the product on to third parties.**

1.3 PERSONAL PROTECTIVE EQUIPMENT

The following minimum Personal Protective Equipment (PPE) is recommended when interacting with Nuaire product:

- **Protective Steel Toed Shoes** - when handling heavy objects.
- **Full Finger Gloves (Marigold PU800 or equivalent)** - when handling sheet metal components.
- **Semi Fingerless Gloves (Marigold PU3000 3DO or equivalent)** - when conducting light work on the unit requiring tactile dexterity.
- **Safety Glasses** - when conducting any cleaning/cutting operation or exchanging filters.
- **Reusable Half Mask Respirators** - when replacing filters which have been in contact with normal room or environmental air.

Nuaire would always recommend a site specific risk assessment by a competent person to determine if any additional PPE is required.

2.0 INTRODUCTION

Nuaire's MRXBOX-FF4 is designed for use with MRXBOXAB-ECO4 MVHR units. The product offers a first fix installation solution; in addition the multiple spigot positions simplify ducting layouts. Each chamber is fully lined with acoustic foam offering excellent noise reduction.

3.0 MECHANICAL INSTALLATION

Installation must be carried out by competent personnel in accordance with the appropriate authority and conforming to all statutory governing regulations.

Please note a clear working space is required around the MRXBOXAB-ECO4 installed unit to allow the cover to be removed and provide sufficient access for maintenance such as filter change. Please allow a minimum of 480mm in front of the unit.

The fan must be installed indoors, on a suitable wall away from direct sources of frost, heat, water spray or moisture generation.

For a vibration-free result the unit must be mounted to a solid wall.

For more detailed information on structural and installation requirements of the MRXBOXAB-ECO4 unit please refer to the installation documents supplied with the MVHR unit and also MRXBOX-AV4 for wall mounting details.

3.1 DUCTING

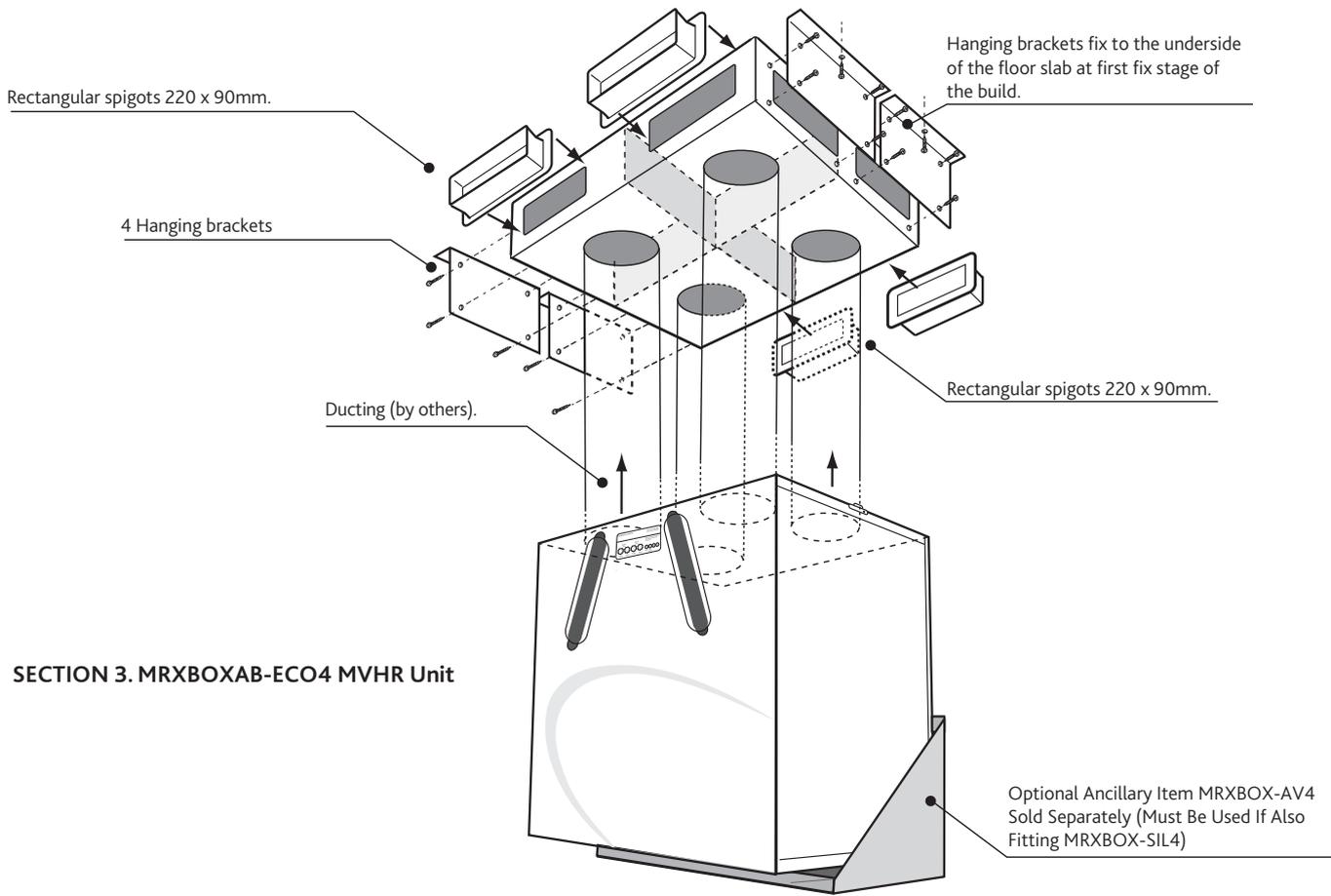
The metal knock outs and foam lining should be removed from any positions that are to be ducted (Fig 1), the 220mm x 90mm spigots supplied can then be fitted to these locations using the self-tapping fixings supplied. If no spigot is to be fitted the knock out and foam should be left in place and the area blanked off using the hanging brackets and self-tapping screws supplied.

The remaining 200mm diameter spigots should be fitted to the underside of the unit using self-tapping screws supplied.

A bead of silicone must be applied to the perimeter of all spigots and hanging brackets fitted to prevent leakage.

Fig 1: Ducting For Wall Mounted ECO4 MVHR Units

SECTION 1. First Fix Plenum Chamber (Code:MRXBOX-FF4)

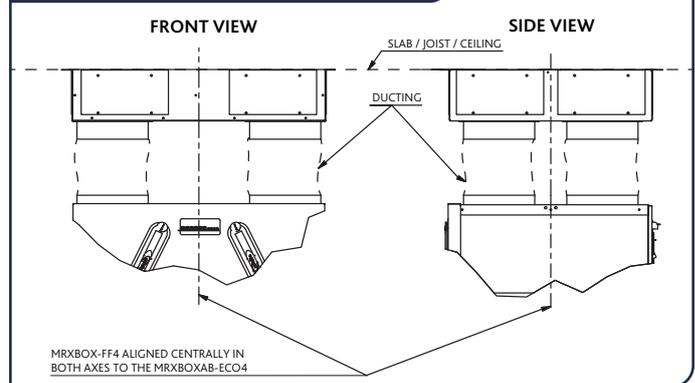


3.2 FINAL INSTALLATION

The MRXBOX-FF4 should be secured to the slab/joists/ceiling using appropriate fixings (supplied by others), it should be aligned centrally in both axes (Fig 2) to the corresponding MVHR unit being connected to minimise misalignment between the ducts.

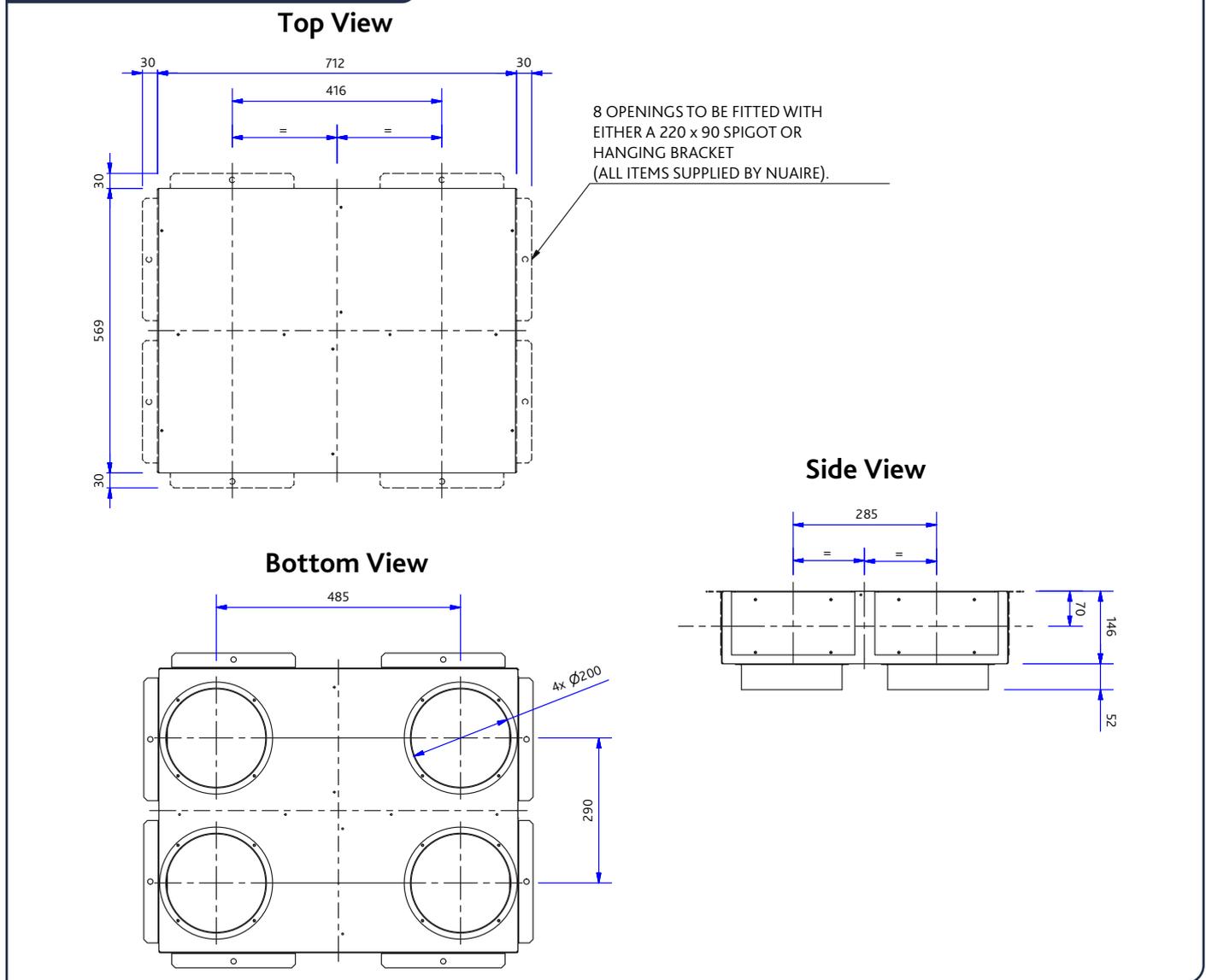
Appropriate ducting should then be used to connect the MRXBOX-FF4 to MRXBOXAB-ECO4 or ancillary MRXBOX-SIL4 if used, suitable clearance should be allowed around any connecting ducting passing through the ceiling to prevent vibration being transferred to the building structure.

Fig 2: MRXBOX-FF4 Ducting View



3.3 DIMENSIONS (mm)

Fig 3: MRXBOX-FF4 Dimensions (mm)



4.0 WARRANTY

The warranty starts from the day of delivery and includes parts and labour for the first year. The remaining period covers replacement parts only.

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 Nuair International Sales office for further details.

Only genuine Nuair parts and filters may be used to maintain the unit. Failure to maintain the unit as recommended will invalidate the warranty.

5.0 END-OF-LIFE AND RECYCLING

Where possible Nuair use components which can be largely recycled when the product reaches its end-of-life:

- Fans, motors, controls, actuators, cabling and other electrical components can be segregated into WEEE recycling streams.
- Sheet metal parts, aluminium extrusion, heating/cooling coils and other metallic items can be segregated and fully recycled.
- EPP, plastic ducting, nylon corner pieces, plastic heat exchangers, packaging material and other plastic components can be segregated into mixed plastic and widely recycled.
- Cardboard packaging, wood, used filters and other paper components can be largely recycled or fully processed in energy from waste centres.
- Remaining Items can be further segregated and processed in accordance with the zero waste hierarchy. Please call After Sales Support for further information on items not listed above.

Ensure that Nuair product is made safe from any electrical / water / refrigerant supplies before dismantling commences. This work should only be undertaken by a qualified person in accordance with local authority regulations and guidelines, taking into account all site based risks.

