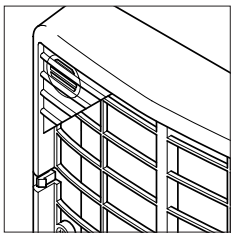

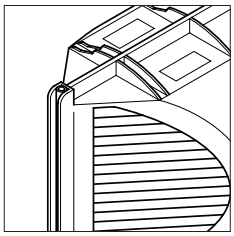

Contents

CE

1.0 Introduction

1.1 Description

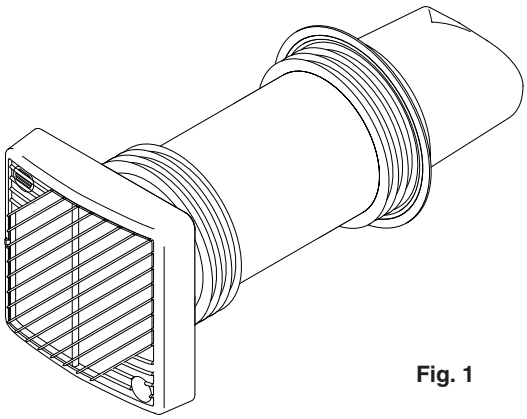

Fig. 1

1. The Vent-Axia HR25 range of products are “through the wall” heat recovery ventilators for use in areas such as bathrooms and WCs.

2. The units are fitted with a 24V DC motor and are supplied with a Switch Mode Power Supply (S.M.P.S.). On normal setting the power consumption is 2 Watts.
A 5m cable is provided for fixed wiring of the unit to the S.M.P.S.

3. The 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 84% heat recovery from the stale extracted air.

4. The range of products is as follows:-

HR25
The HR25 is fitted with a pull cord switch which provides a twin speed control function.

HR25H
The HR25H is fitted with an adjustable humidity sensor which automatically switches between its high and low settings depending on the relative humidity in the room of installation.

HR25P
The HR25P has an Infra-Red sensor which detects a person moving in the room, which then activates the unit to switch to its higher setting. This unit can operate under two different modes, direct action and delayed action.

HR25L, HR25LH and HR25LP
These are extended versions of the above models. They are designed for installations where the wall thickness is between 311mm and 425mm.

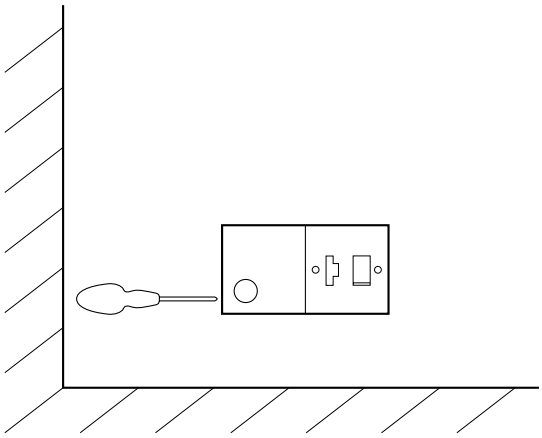

Fig. 2

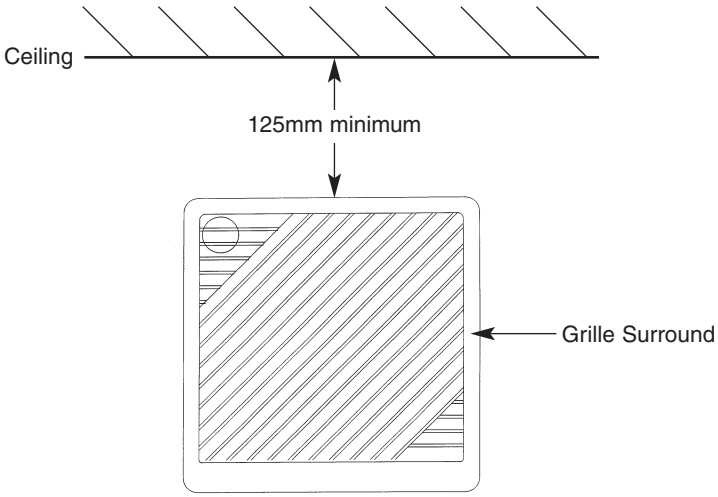

Fig. 3

2.0 Site Requirements

2.1 Information

1. The unit is designed for installation in external walls with a thickness of up to 310mm. For wall thicknesses above 310mm, the 'L' version of the appropriate model must be used (see pages 12 & 13). The 'L' models are suitable for wall thicknesses up to 425mm.

2. The unit must be sited and connected by a suitably competent person and be in accordance with current U.K. Building Regulations and I.E.E. Wiring Regulations (BS 7671).

3. The unit must be installed in conjunction with the separate power supply enclosure supplied, which is intended for permanent connection to the mains electrical supply. The unit and the power supply enclosure are intended for fixed wiring installation.

4. The power supply enclosure requires free air circulation for effective operation.
It must not be recessed into the mounting surface or covered with any form of insulation, which might be used in a ceiling or roof void.

5. Wiring to the unit in the U.K. must be via the switched fused spur supplied as part of the power supply enclosure.

6. The spur supplied is designed with a minimum contact gap of 3mm in all poles.

7. Ensure that the mains electrical supply is compatible with the rating label attached to the product.

8. The unit must be sited such that the ambient temperature will not exceed 40°C.

9. Screwdriver access must be provided to the left of the power supply enclosure for the removal of the cover screw (Fig. 2).

10. Do not site the appliance in the vicinity of excessive levels of airborne oil or grease.

11. If the unit is installed in a room containing a fuel burning appliance, the installer must ensure that air replacement is adequate for both appliances.

12. The unit must not be installed at a level below 500mm from the floor.

13. The internal grille surround must be sited at least 125mm away from any wall or projecting surface (Fig. 3).

14. The external cowl of the unit must be sited at least 500mm away from any flue of gas or solid fuel appliances. This is to avoid back flow of gases entering the room.

15. All safety regulations and requirements must be strictly followed to prevent hazards to life and property both during and after installation and during subsequent maintenance or servicing.

16. Ensure the mains electrical supply is switched off before commencing installation or maintenance.

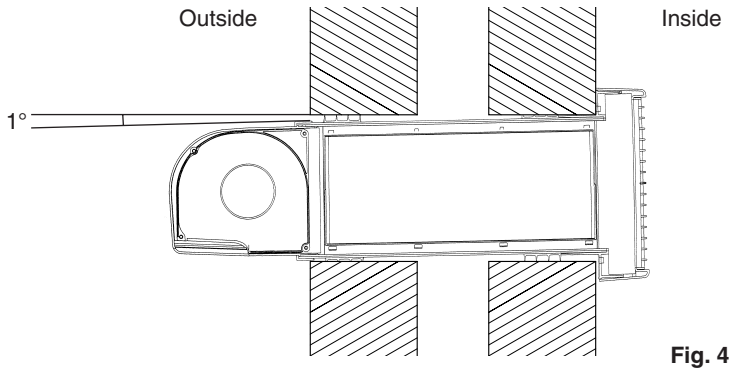

Fig. 4

3.0 Installation

3.1 Initial Preparation

The unit is designed for installation in a 152mm (6”) core drilled hole.
All installation can be undertaken from inside the building except for fixing of the external bezel if required.

1. After considering the site requirements (see previous section), select a suitable position for the unit and power supply enclosure (5m maximum between unit and power supply).

2. Remove the unit fixing template from the rear of the instructions.

3. Mark the position of the four fixing holes and the mounting hole.

4. Cut the mounting hole to a diameter of 152mm (6”) using a core drill. Ensure that there is a slight fall on the hole, from inside to outside (Fig. 4).

5. Drill and plug the four fixing holes.
Install the fixed cable runs using mini-trunking or via concealed installation. A 3-core red, white and black low voltage cable is supplied for connections between the unit and the power supply.

6. Using the template supplied mark the position of the four fixing holes for the power supply enclosure. Drill and plug the holes.

7. Ensure the cable to the unit extends sufficiently from the mounting hole to enable the required connections within the control enclosure.

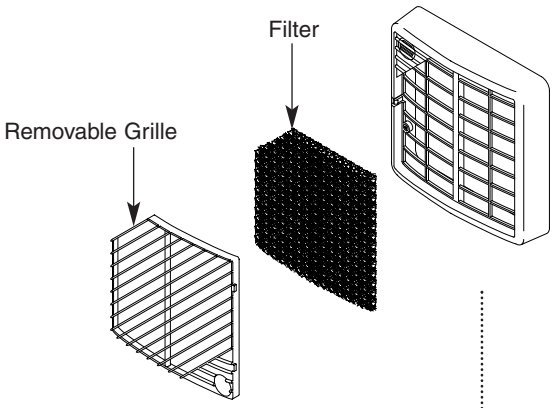

Fig. 44

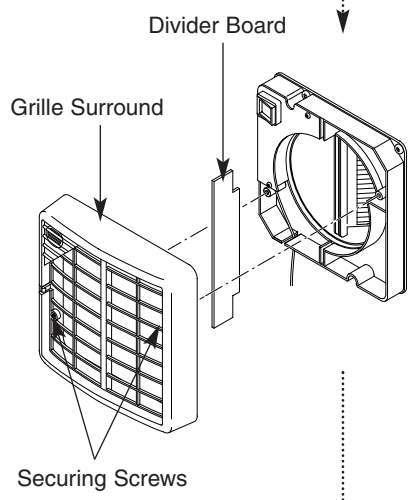

Fig. 45

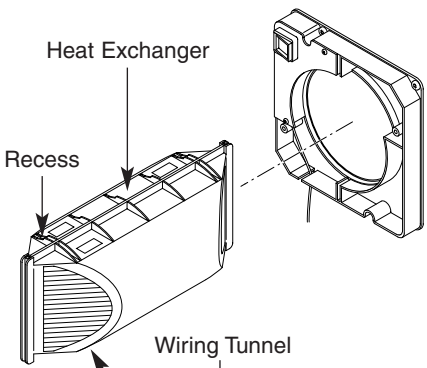

Fig. 46

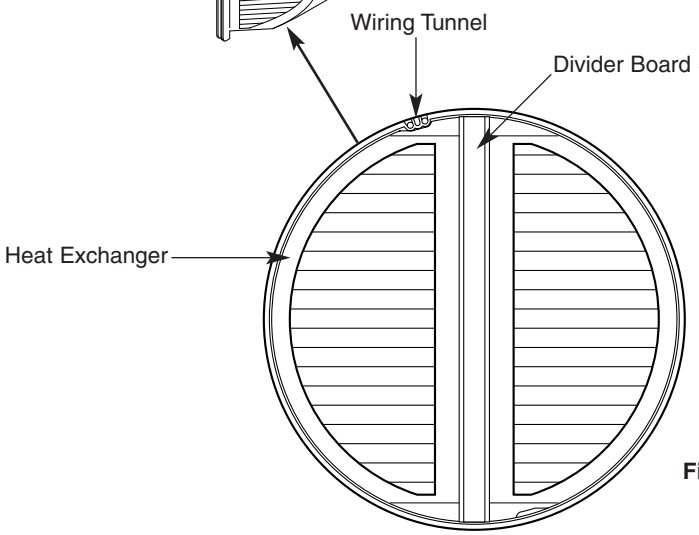

Fig. 47

4.0 Maintenance

4.1 Cleaning the Unit (all models)

Apart from removing odours, providing fresh air and recovering heat, this unit extracts airborne impurities such as dust, dirt and grease. These gradually build up and diminish from the efficiency and detract from the appearance of the unit.

To maintain efficiency the unit should be cleaned at least every six months, or more regularly if a high level of contamination is experienced.

1. Isolate the mains power supply.

2. Unclip the removable grille from the unit and remove filter (Fig. 44).

3. Loosen the two securing screws and remove the grille surround (Fig. 45).

4. Remove the divider board and slide out the heat exchanger (Fig. 45 & 46).

5. Wash the grille, surround, filter and heat exchanger in warm water using a mild detergent and dry thoroughly.

NOTE: Keep water away from all electrical components and wiring within the unit.

If it is not possible to fully clean the filter, it must be replaced (see short parts list on page 15 for part number).

6. Reassemble in reverse order ensuring the divider board seals against the heat exchanger.

NOTE: Follow the 'Inside/Outside' instruction labels on the heat exchanger.
The recess in the heat exchanger outer wall must be aligned with the wiring tunnel on the unit to ensure the divider board slot is vertical (Fig. 46 & 47).

7. Switch the power supply on and check the operation of the unit.

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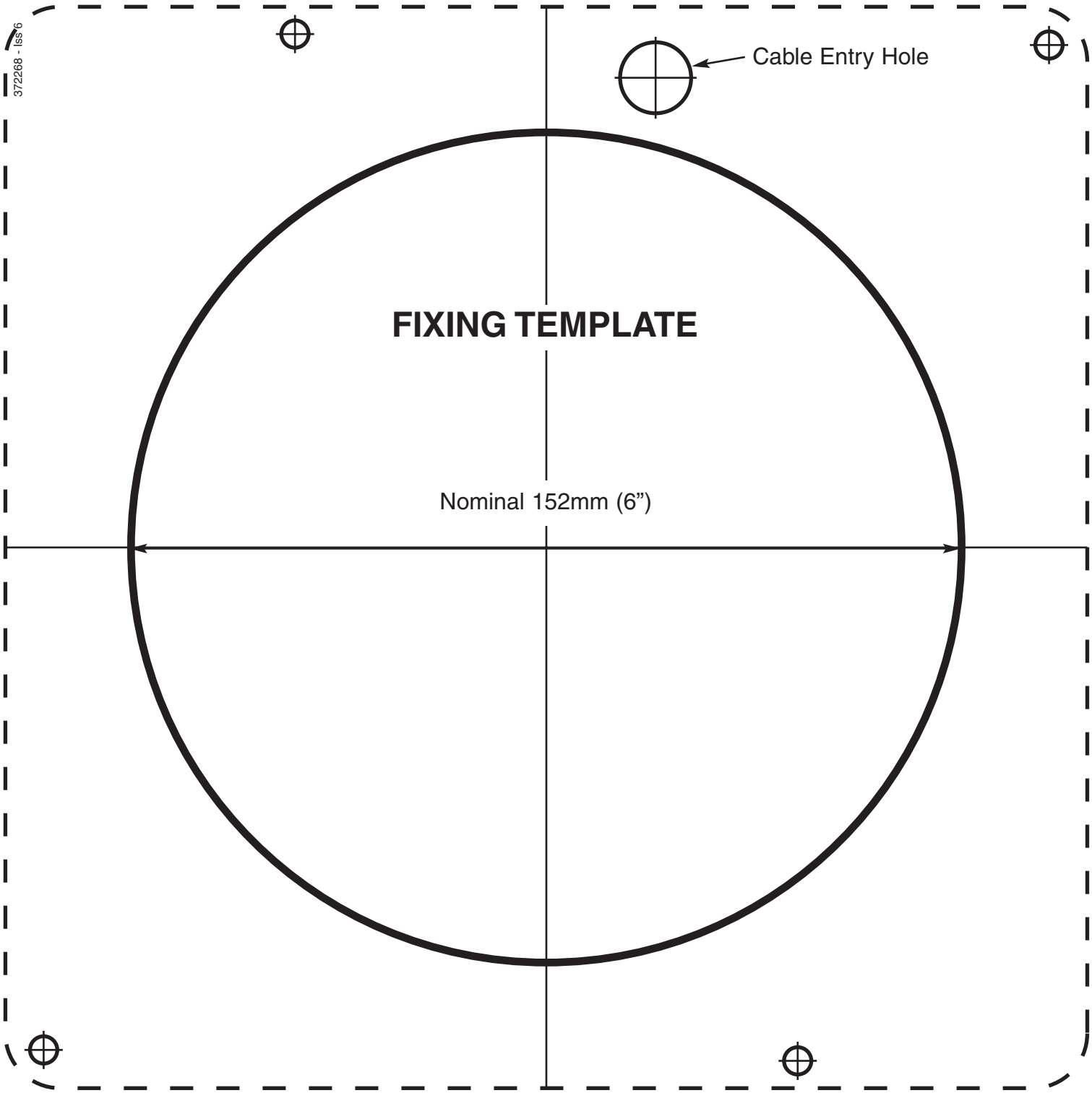
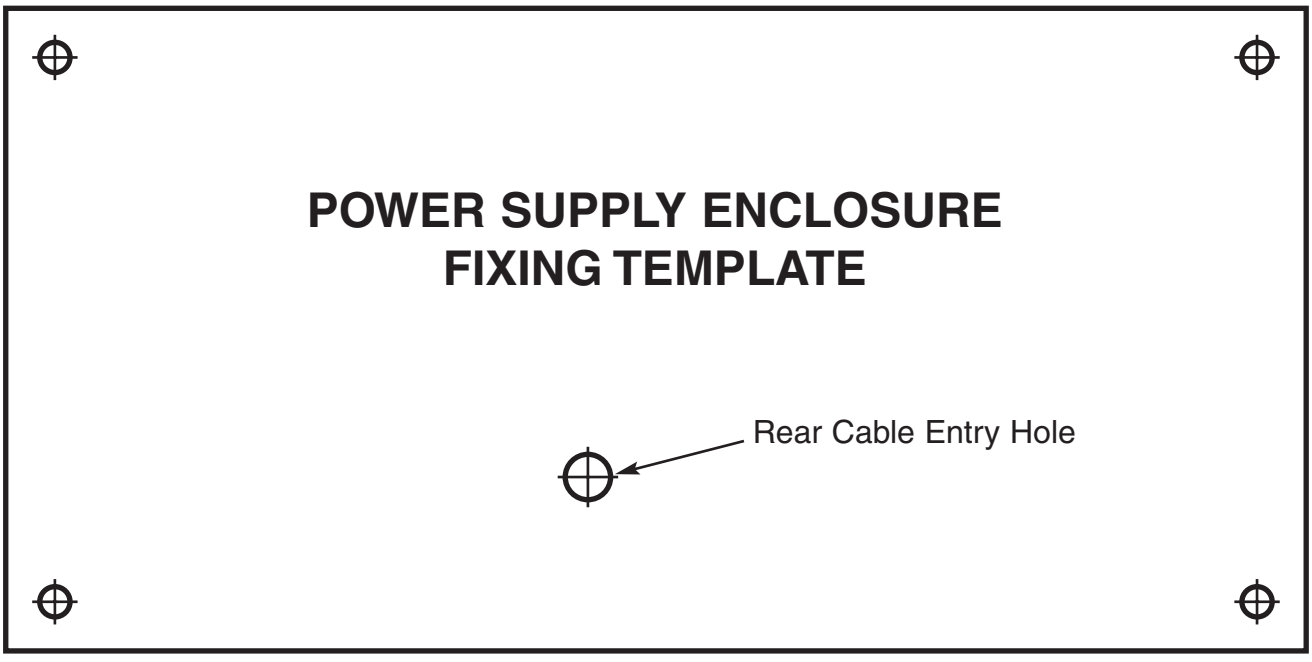

Cable Entry Hole
FIXING TEMPLATE
Nominal 152mm (6”)


POWER SUPPLY ENCLOSURE
FIXING TEMPLATE
Rear Cable Entry Hole