



heatSava

Intelligent Single Room Heat Recovery Unit

**INSTALLATION GUIDE FOR
ENGINEER / INSTALLER**



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Scan the QR code to watch the step by step installation video



01 Introduction



Made in Harrogate
UK

Thank you for choosing EnviroVent

The fastest growing ventilation company in the UK

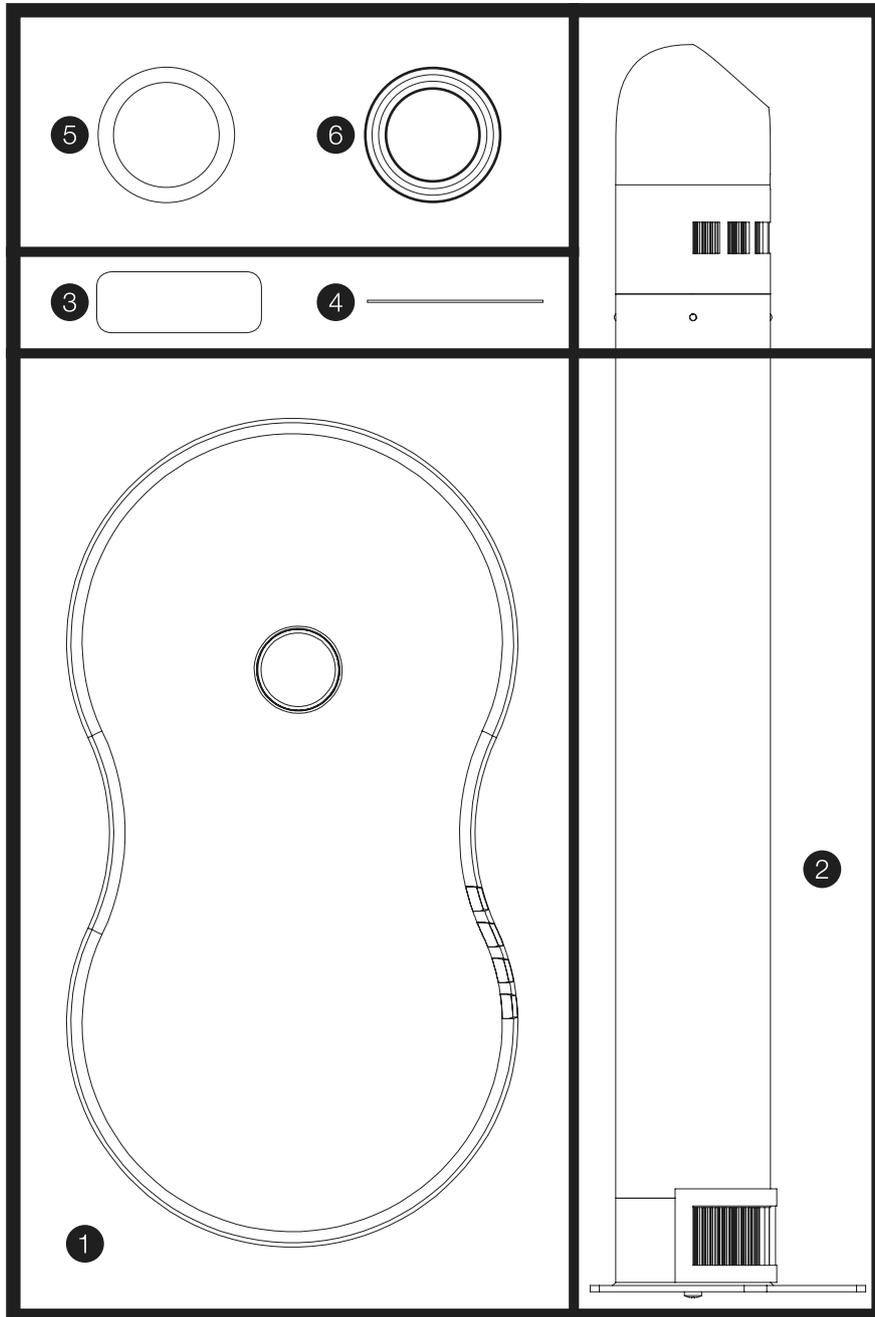
Ensure that this product is treated with care, installed and maintained correctly i.e. for the life of the building. Remember, if you have any problems please call our dedicated Technical Team.

Gold Standard After Sales Service

In the unlikely event of any on-site installation problems or queries regarding the EnviroVent heatSava, just call our hotline number. We will take your details and appoint a regional installation manager to call you back to discuss the problem. In the majority of cases, the problem can be resolved over the phone. However, in cases where the problem cannot be resolved over the phone, we will arrange a visit from our Gold Standard Engineer. They will meet with your contractor/direct labour on-site to discuss and resolve the problem, will provide training and also give advice on the installation of the unit.

INSTALLER HOTLINE: 07540 050 147

02 Box Contents

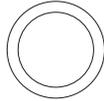
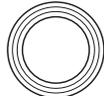


- 1 heatSava Unit
- 2 Heat Cell
- 3 SELV (optional)

- 4 Instructions Guide
- 5 Halo
- 6 Wall Seal

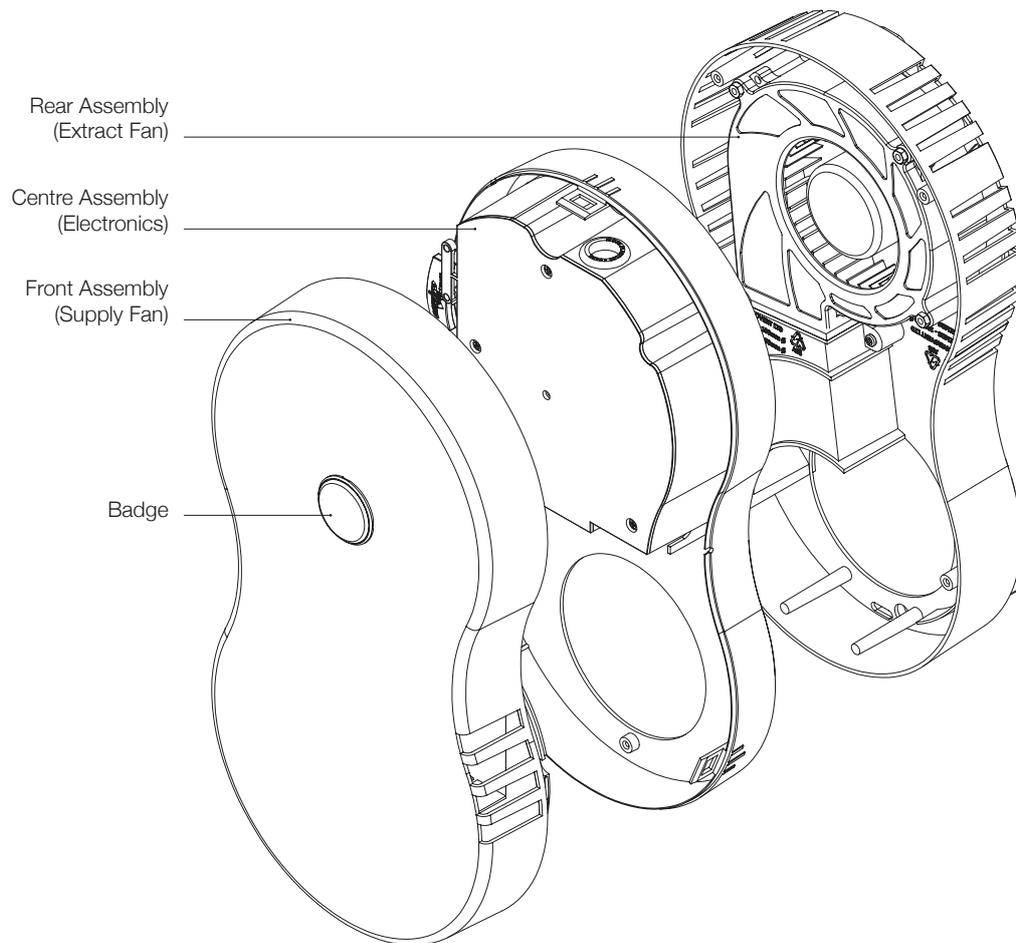
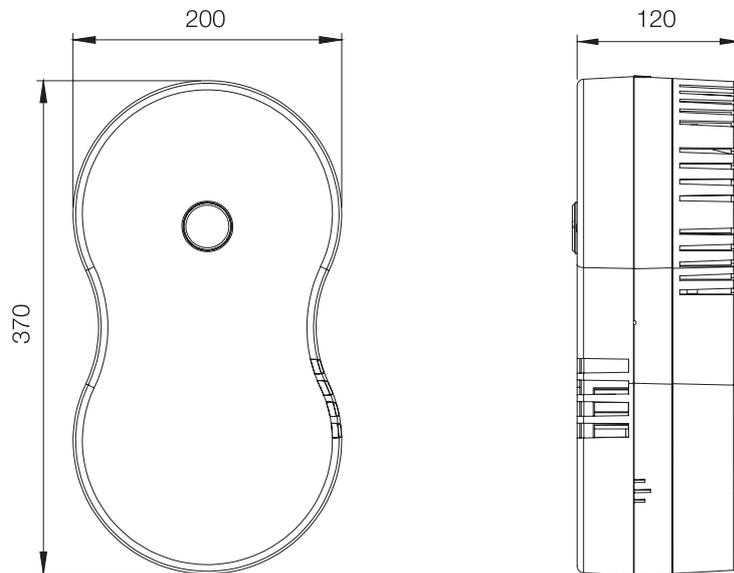
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02 Box Contents

Description	Quantity	Item
heatSava Unit	1x	
Heat Cell	1x	
SELV (optional)	1x	
Fixing Kit	1x	
No.8 x 1½ Screws - (Fixing Kit Contents)	11x	
M5 x 40 Screws - (Fixing Kit Contents)	3x	
Red Wall Plugs - (Fixing Kit Contents)	3x	
Wall Kit Contents Halo (optional)	1x	
Wall Seal (optional)	1x	

03 Technical Specifications

Unit Dimensions

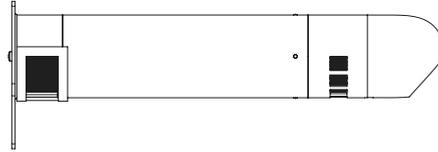


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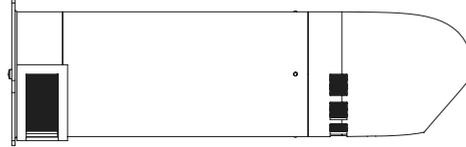
03 Technical Specifications

Heat Cells Options

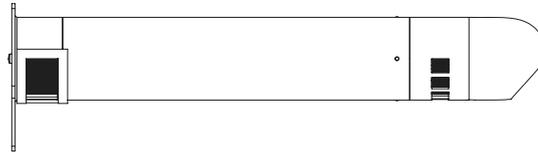
Cell - Ø100mm / 310 Wall Depth



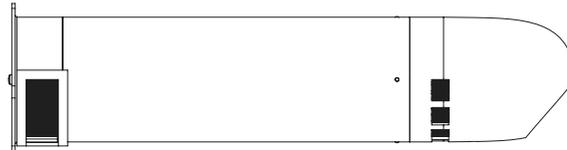
Cell - Ø150mm / 310 Wall Depth



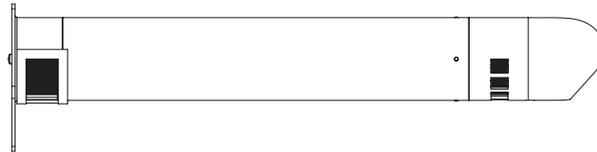
Cell - Ø100mm / 430 Wall Depth



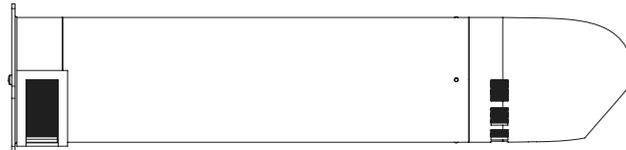
Cell - Ø150mm / 430 Wall Depth



Cell - Ø100mm / 500 Wall Depth



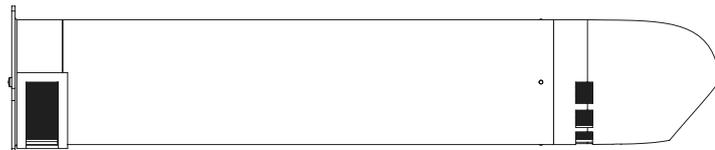
Cell - Ø150mm / 500 Wall Depth



Cell - Ø100mm / 600 Wall Depth



Cell - Ø150mm / 600 Wall Depth

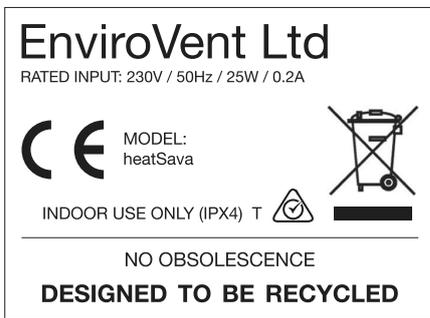


04 Safety

Be sure to have read and understood these instructions before beginning the installation process.

! All wiring must comply with Building Regulations and the current I.E.E. Wiring Regulations (BS7671) or the equivalent standards for your country. The final installation should be examined and tested by a qualified electrician.

Make sure the mains supply complies with the rating label for voltage, frequency and phase.



IPX4 Rated

This unit has been tested to IPX4 and is suitable for installation within Zone 1 of bathrooms. However, we recommend that you must position the unit above any water devices such as taps, showerheads or jets and ensure water is not aimed directly at the unit. Do not use jets or shower heads etc to clean this unit.

- Never modify the fan or electronics
- Do not store inflammable products in the vicinity of this product
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- For a bathroom application the power supply should be installed outside the bathroom as it is 230V.
- This unit draws air in from atmosphere and you must ensure that any emissions from any other systems such as gas or oil boilers, do not contaminate the air entering the heatSava product. Therefore, before installation, consider where the external cowl will be located in relation to any boiler flues etc. Externally, we recommend that the unit to be positioned a minimum distance away of; 1 metre horizontally, 1 metre below or 3 metres above any boiler flue etc. Also refer to Building Regulations, Document J – Combustion Appliances & Fuel Storage Systems.
- In kitchens, if the unit has to be fitted above a cooker, it should be installed a minimum distance of 650mm above electric cookers and 750mm above gas cookers, and not have a pullcord fitted.

Electrical Assembly

When wiring the unit in, a suitable disconnect device such as a switched fused spur should be used, do not use a plug. The means of disconnecting the unit from the mains power supply must be incorporated in the fixed wiring in accordance with the wiring rules.

There must be a necessity to allow disconnection of the appliance from the supply after installation, unless the appliance incorporates a switch complying with the wiring rules. The disconnection may be achieved by incorporating a switch in the fixed wiring in accordance with the wiring rule.

The electrical install comprises of a power supply unit (Fig.1) or a low voltage box - SELV (Fig.2). The 2 and 3 core cables are to be supplied by the installer. See pages 21-22 for wiring diagrams..

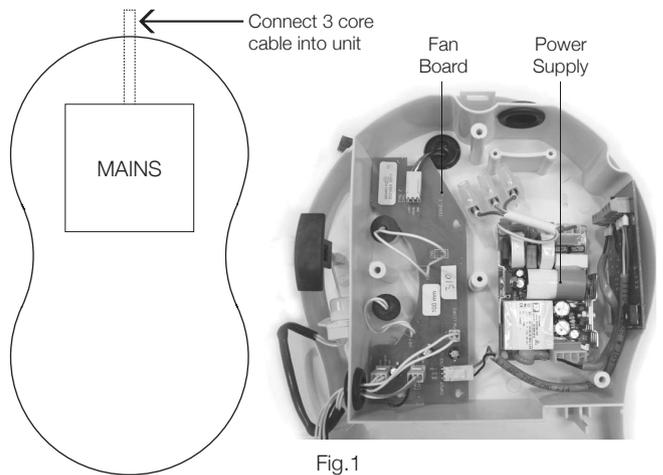


Fig.1

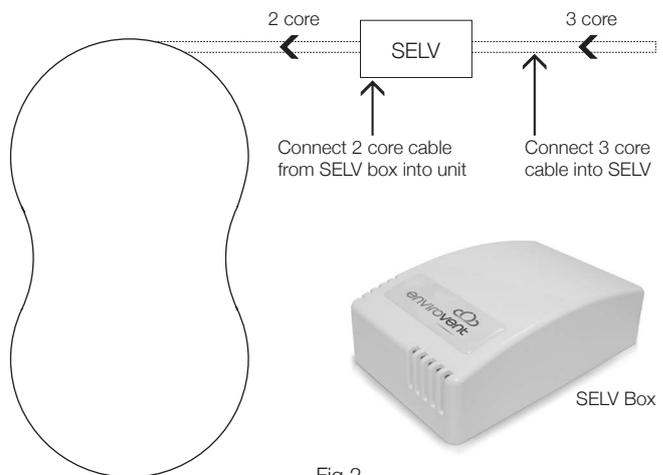


Fig.2

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05 Installation

Introduction

Designed for through the wall installation, the heatSava is ideal for both refurbishment and new build properties. The outside diameter of the heat exchange casing is smaller than a standard wall sleeve and can therefore utilize an existing one already in place. The heatSava also takes into account the complexities of different wall depths to offer 4 different main lengths that the heat exchange casing is manufactured to (see page 6). The unit is installed from the inside out to allow for ease of installation in high-rise applications.

Built with intelligent humidity tracking controls means no user intervention is required and heatSava silent-night mode prevents noisy running at night. The heatSava is exceptionally versatile and can be installed horizontally or vertically in 4 different positions through 360° (Fig.1).

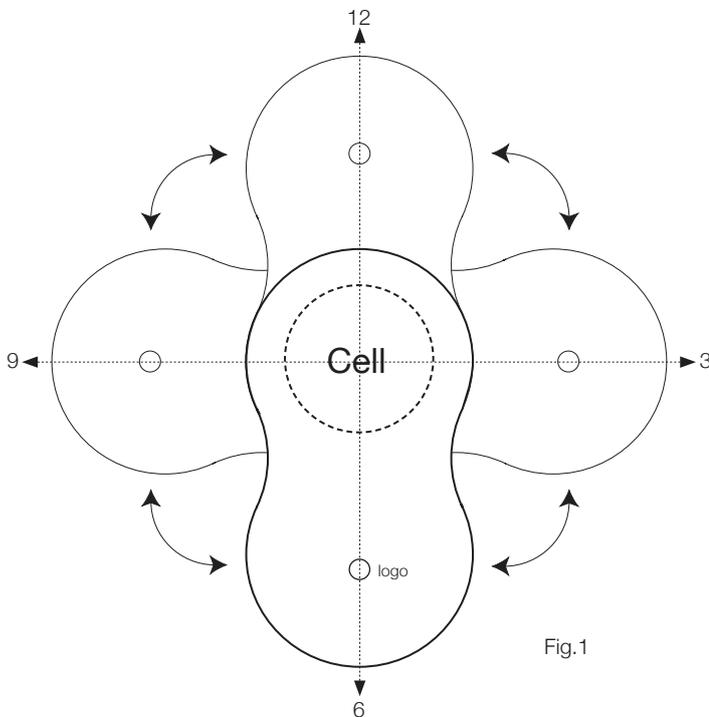


Fig.1

Pre-Installation Checklist

Before starting the installation process, ensure that you have all the necessary equipment and the following:

- Check wall depth
- heatSava Unit
- Heat Cell
- Fixing Kit
- Wall Seal Kit (optional)
- Low Voltage Box (optional)
- Choose position and orientation

Heat Cell Orientation

When fitting the heat cell into a wall, ensure that the cowl end is correctly orientated with the end always facing down. (Fig.2.)

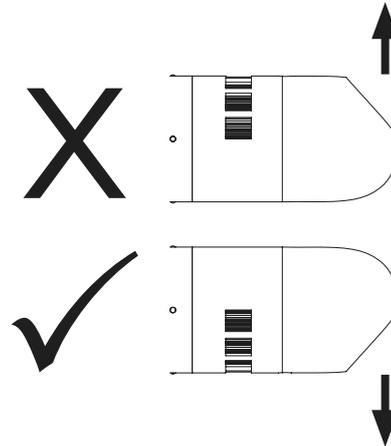


Fig.2

Clearance

The heatSava has been designed to allow easy installation into an existing wall sleeve which is located near the ceiling. When core drilling into an existing wall, make sure you have enough space to move around and distance between the wall and any objects nearby i.e cupboards (Fig.3).

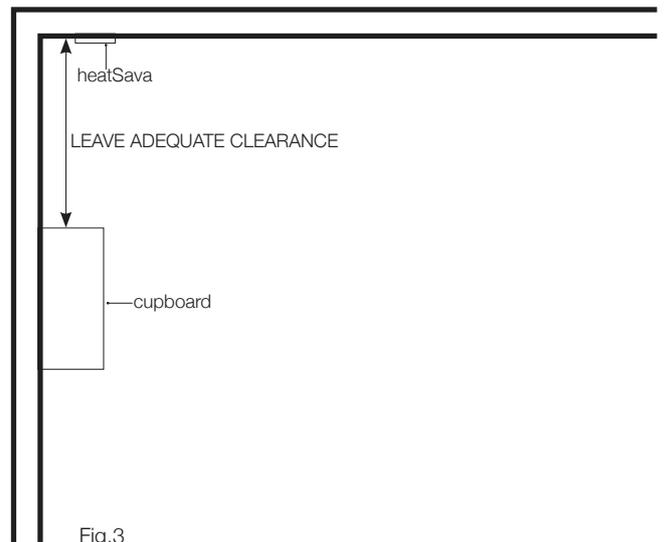


Fig.3

Ensure the unit is sited in a suitable position for adequate clearance on all sides for easy access to the unit for maintenance purposes and to ensure that access to the release clips on the front cover is not inhibited.

05 Installation

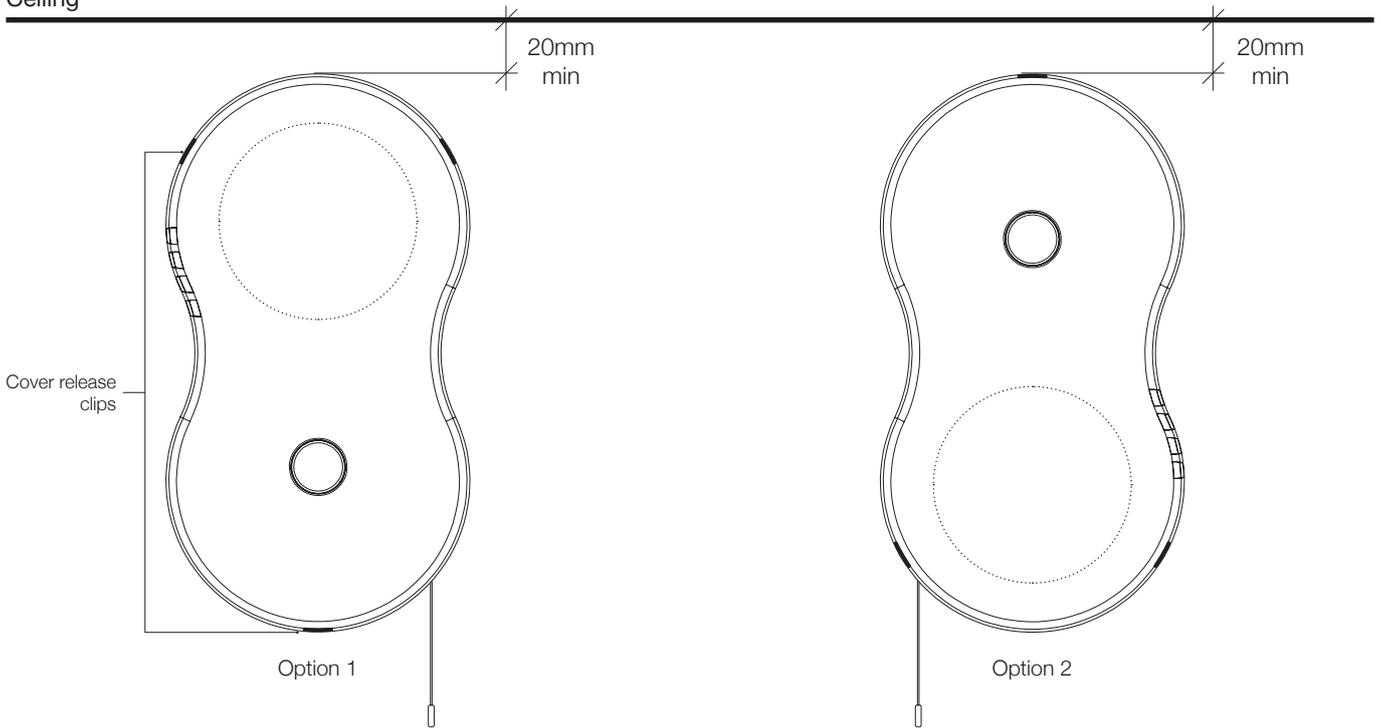
Clearance

First measure the wall depth.

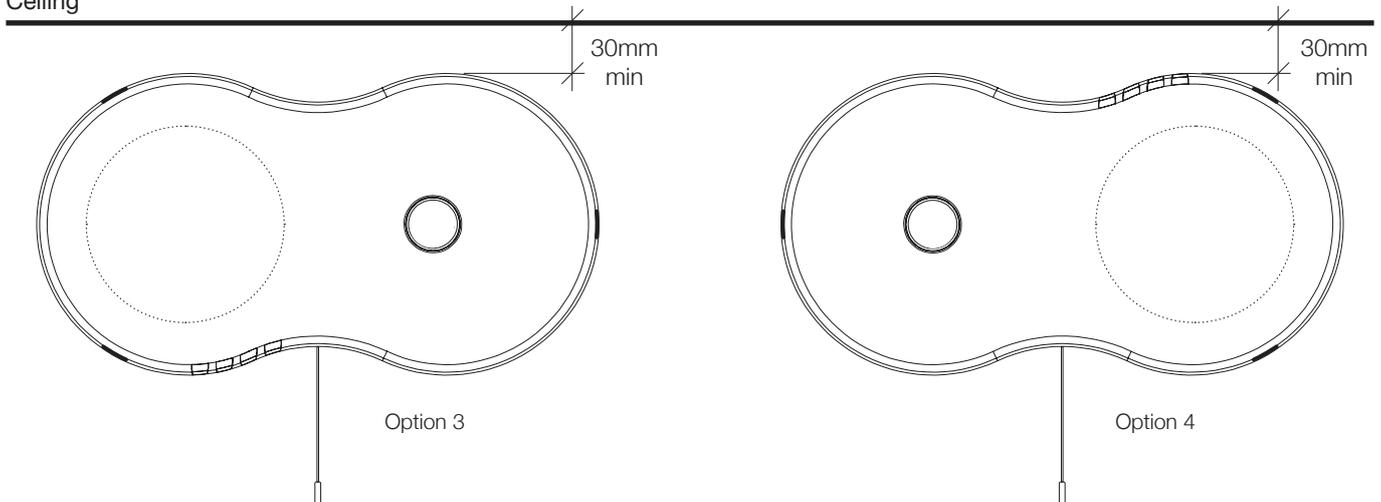
If installing into a new build application, we recommend that the unit should be installed in the position below (option 1). If installing into an existing wall sleeve which is located near to the ceiling, the heatSava can be installed horizontally or vertically (options 2-4).

! The first step in the installation process is to check the wall depth on the property to determine what type of install is required. Please read clearance section carefully before determining the inversion and cell size suitable for the unit.

Ceiling



Ceiling



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05 Installation

Marking Out - Template Sheet



Fig.1A

- 1 Using the template provided, align it with a spirit level against the wall and draw around the circle for the location of the core hole (Fig 1A).

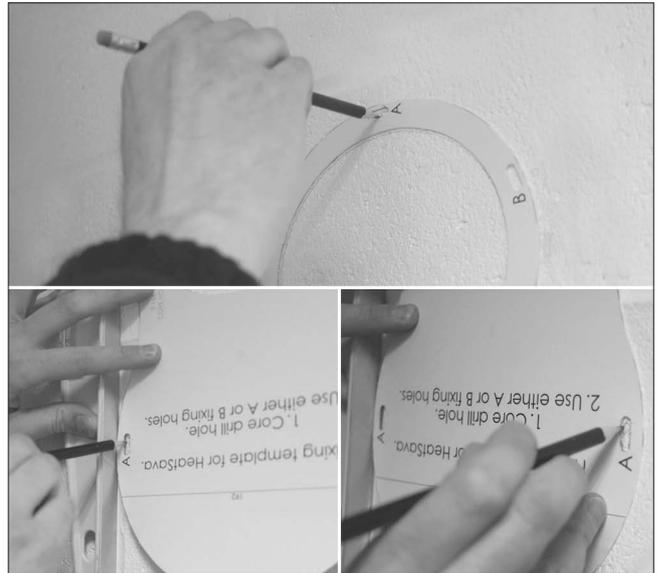


Fig.1B

- Mark out the locations for the 3 fixing holes. Use either A or B depending on how smooth the wall surface is (Fig 1B).

(The rear assembly has 6 feet to help when fixing to uneven surfaces)

Installation Process - Core Drilling



Fig.2A

- 2 Before core drilling, determine which heat cell will be inserted through the wall and core drill accordingly (Fig.2A & 2B).

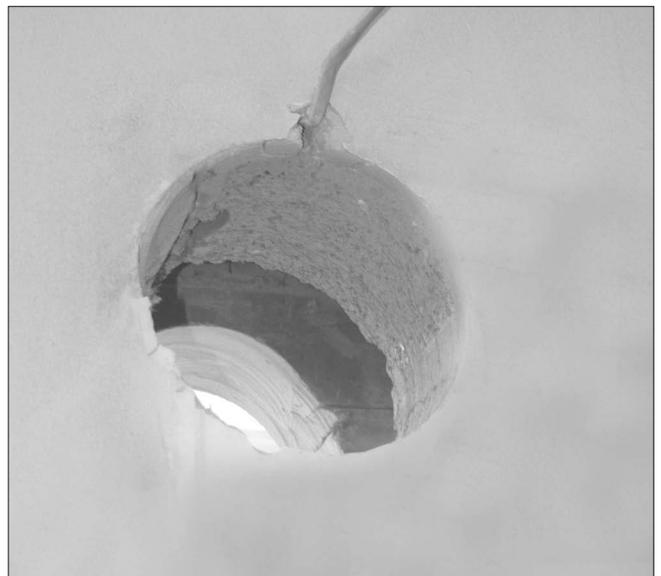


Fig.2B

For the 100m model, drill a hole with a diameter of 107mm or 117mm if using a wall seal. For the 150mm model drill a hole with a diameter of 158mm or 162mm if using a wall seal. If fitting with a wall seal see pages 17-18.

05 Installation

Installation Process - Front Cover

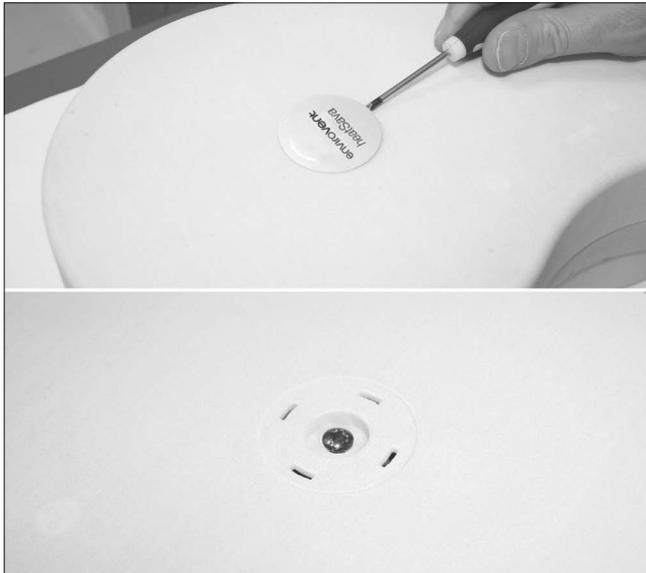


Fig.3A

- 3 Using a screwdriver remove the badge and undo screw (Fig.3A). Next remove the front cover of the unit using the release clips as shown.



Fig.3B

- To remove the front cover, release the top clip first and then release the two clips at the bottom by pushing in at the points indicated on the centre assembly of the unit (Fig.3B).

Installation Process - Rear Assembly



Fig.4A

- 4 Using a spirit level, align the rear assembly of the unit to the wall ensuring it lines up with the marked out fixing holes locations (Fig.4A).



- Drill 3x fixing holes and fit 3x wall plugs.

05 Installation

Installation Process - Rear Assembly

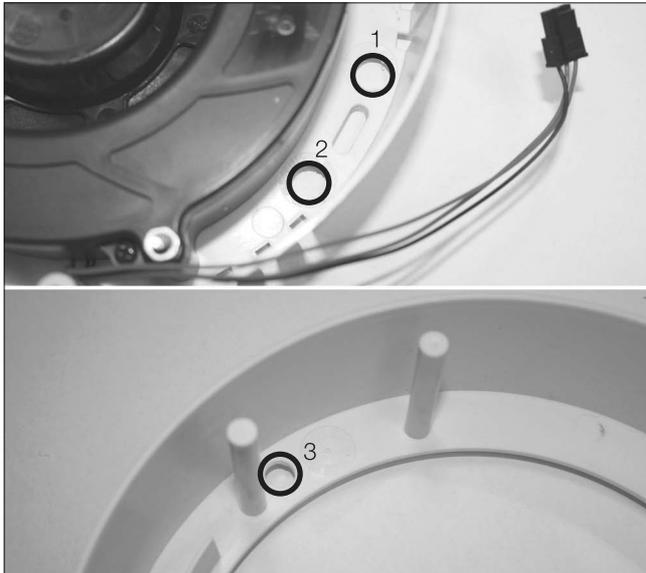


Fig.5A

- 5 There are 3 cable entries on the rear assembly. Locate the one suitable for the install and pull the mains cable through the selected entry hole (Fig.5A).

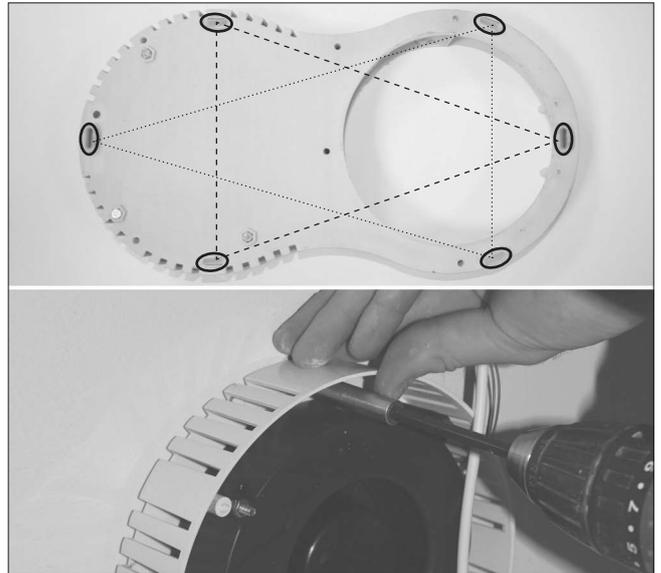


Fig.5B

- Fit the rear assembly to the wall using the 3 screws (Fig.5B).

Installation Process - Centre Assembly

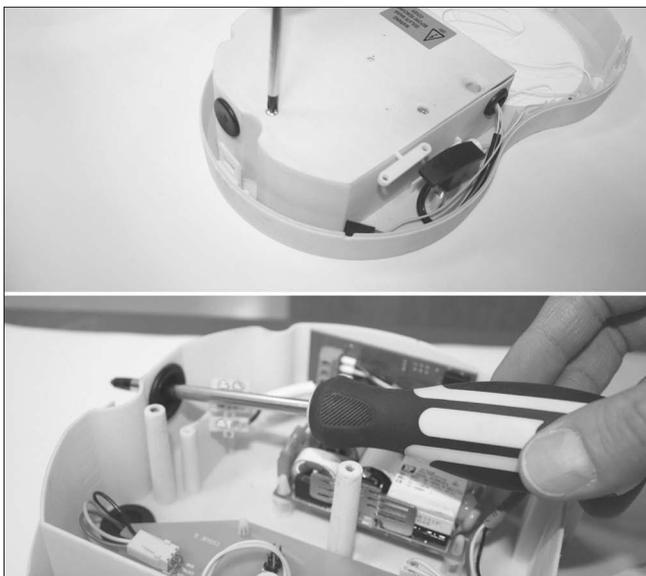


Fig.6A

- 6 Detach the electronics lid from the centre assembly by removing the screws. Then using a screwdriver pierce through the grommet (Fig.6A).

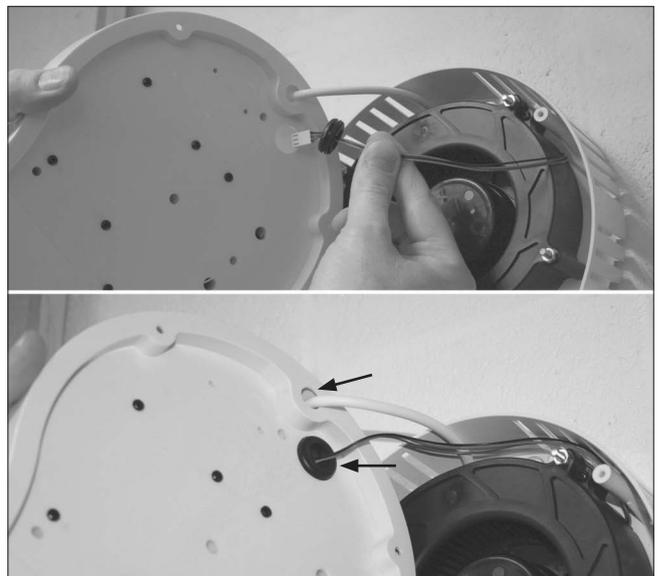


Fig.6B

- Feed the power cable through the hole. Push the fan cable through the hole and secure using the grommet. Inside connect the fan cable to the fan board (Fig.6B).

05 Installation

Installation Process - Centre Assembly

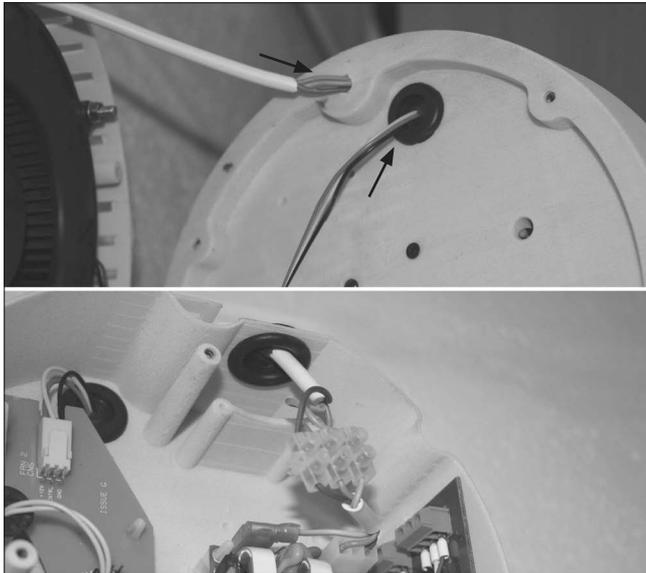


Fig.7A

- 7 Pull the mains cable through the entry hole and pierced grommet in the centre assembly. Connect the cable to the mains supply or SELV board depending on the model being installed (Fig.7A). See pages 21-22 for wiring diagrams.

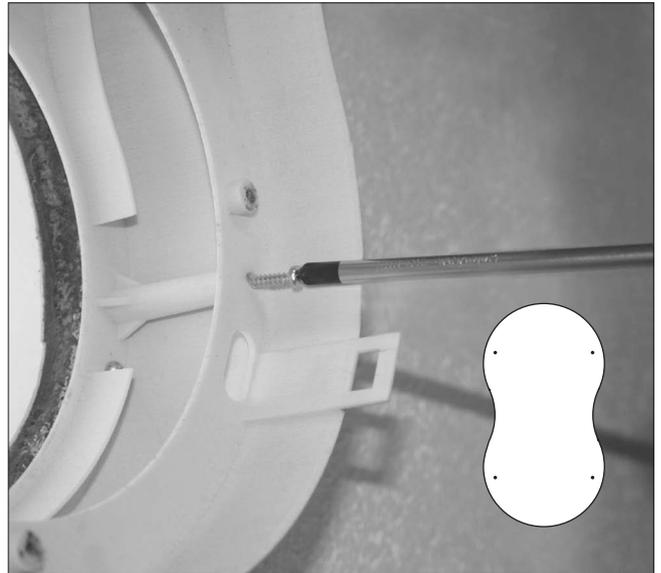


Fig.7B

- Now securely fix the centre assembly to the rear assembly together on the 4 fixing points using the screws provided (Fig.7B).



Fig.8A

- 8 Detach the strip from the electronics lid and securely fix it in place to restrain the cable (Fig.8A).



Fig.8B

- Make sure all cables are connected correctly, then fix the electronics lid back on using the screws provided (Fig.8B).

05 Installation

Installation Process - Pullcord

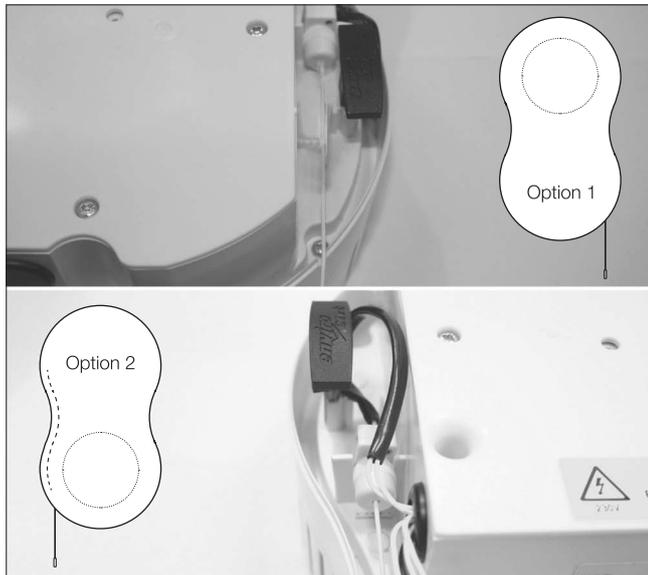


Fig.9A

- 9 The next step is to fit the pullcord. Depending on the orientation of the unit, the pullcord can be situated in 4 positions (Fig.9A & 9B).

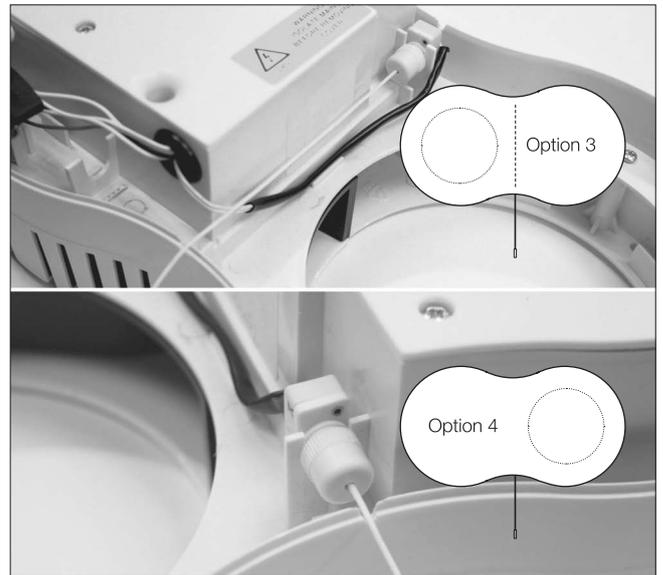


Fig.9B

- Choose the suitable one for the install and make sure the pullcord is always facing downwards.



Fig.10A



Fig.10B

- 10 Dependent on the installation orientation, when fitting the pullcord, make sure it is neatly tucked within the grooves. (Fig.10A & 10B).

05 Installation

Installation Process - Heat Cell Insertion

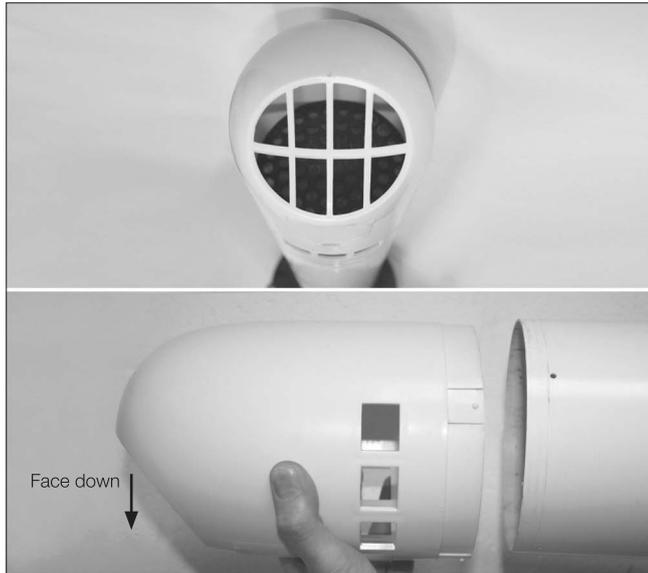


Fig.11A

- 11** The heat cell can now be inserted through the aperture. The cowl end is removable to enable correct orientation. Apply solvent cement and ensure it is always facing downwards (Fig.11A).

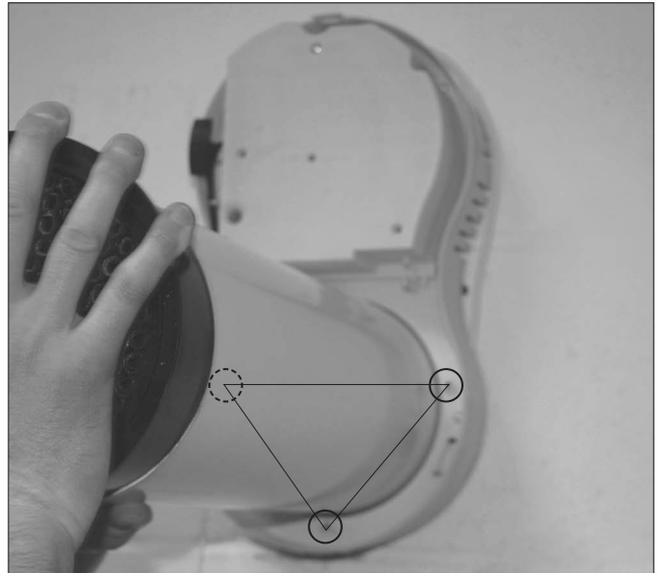


Fig.11B

- Carefully insert the heat cell ensuring it meets the 3 fixing feet (Fig.11B).

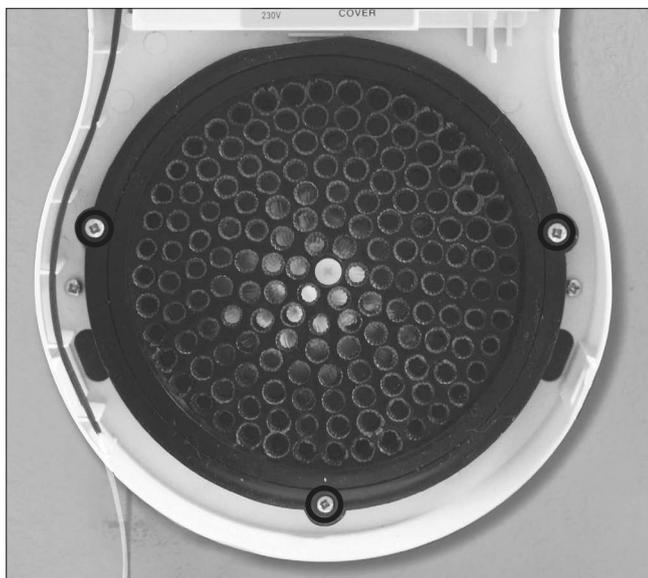


Fig.12A

- 12** Secure the heat cell to the 3 fixing points on the centre assembly using the screws provided (Fig.12A).

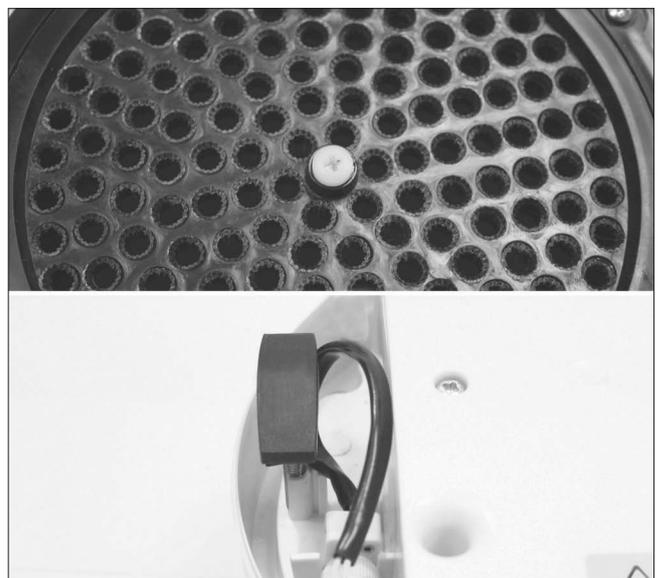


Fig.12B

- Ensure the plastic screw is fixed to the centre of the heat cell and the cell key is placed back in its holder (Fig.12B).

05 Installation

Installation Process - Front Cover

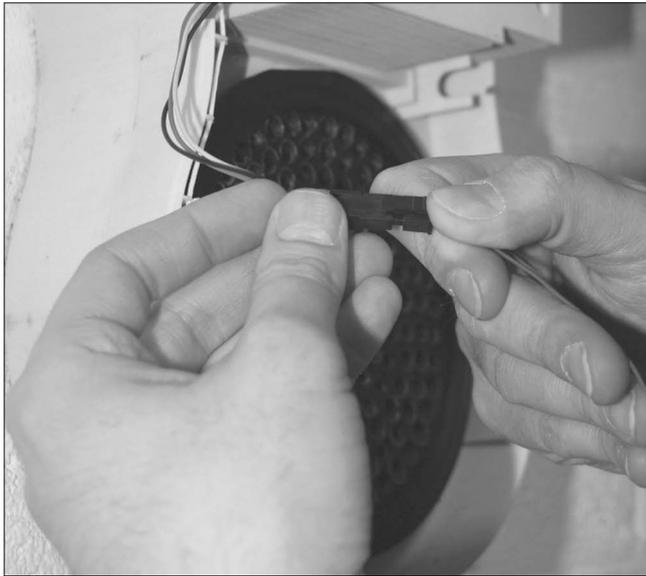


Fig.13A

- 13 Take the front cover and connect the fan leads together (Fig.13A).

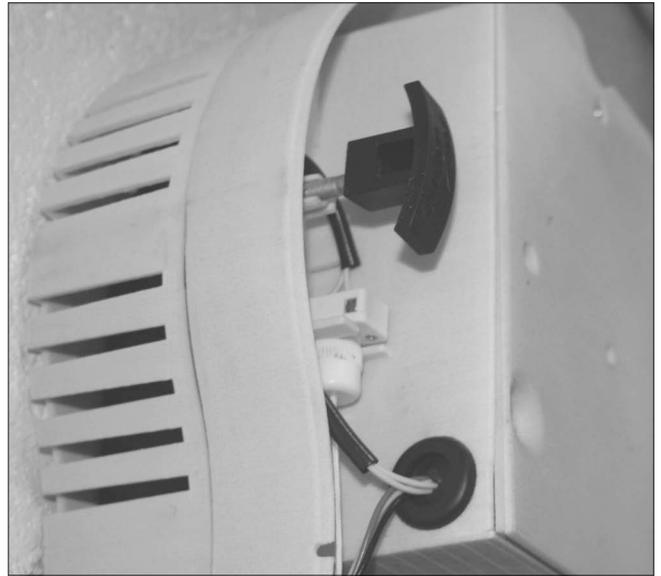


Fig.13B

Ensure the fan leads are neatly tucked down the side and do not trap them against the end of the cell before putting the front cover on (Fig.13B).

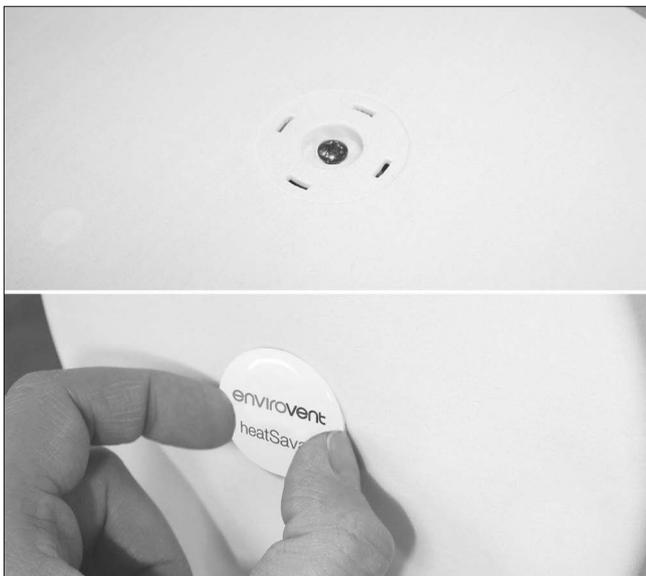


Fig.14A

- 14 Click and shut the front cover, and fix it in place using the screw. Place the fan badge on the front cover (Fig.14A).



Fig.14B

Tidy the mains cable and if required use conduit etc. Make the electrical connection via a fused spur and switch the unit on and leave to run in trickle mode. Use the pullcord to test trickle and boost modes (Fig.14B).

05 Installation

Installation Process - Halo Fixing



Fig.15A



Fig.15B

- 15** Externally: Complete the installation by fitting the halo using sealant - DO NOT SEAL AROUND THE CASING (Fig.15A & 15B).

Installation Process - Wall Seal option

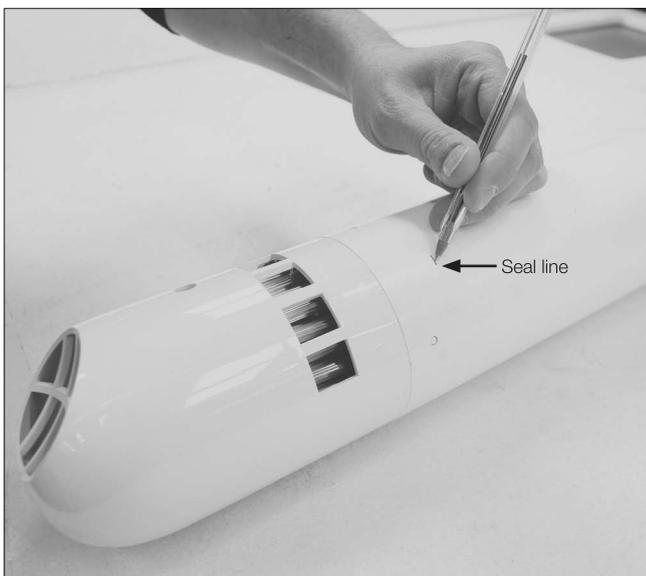


Fig.16A

- 16** Mark out the seal line on the heat cell. Always fit heat cell through unit BEFORE fitting seal (Fig.16A & Fig 19).

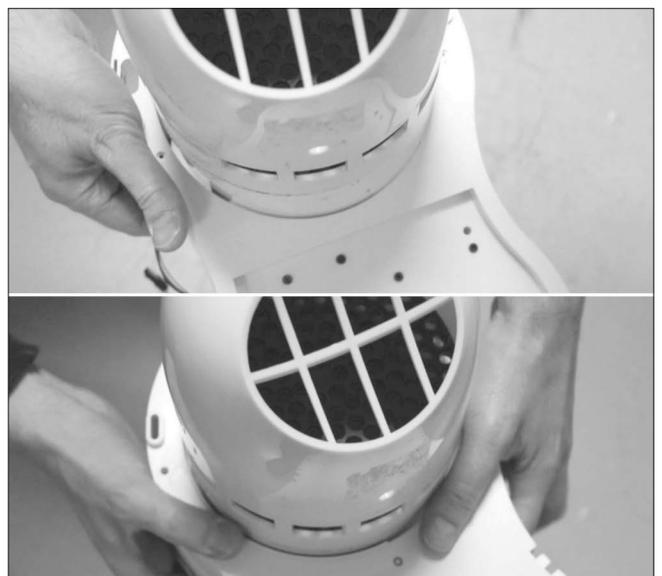


Fig.16B

After following instructions on page 10, take the centre assembly and fit it over the heat cell, then repeat the process using the rear assembly (Fig.16B).

05 Installation

Installation Process - Wall Seal option

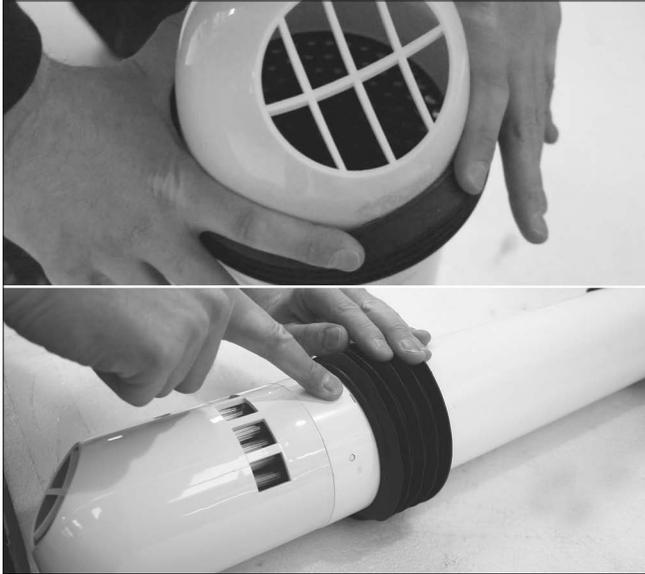


Fig.17A

- 17 Take the wall seal and fit it over the heat cell. The seal must be fitted inside the wall depth. Use the marked seal line as reference (Fig.17A).



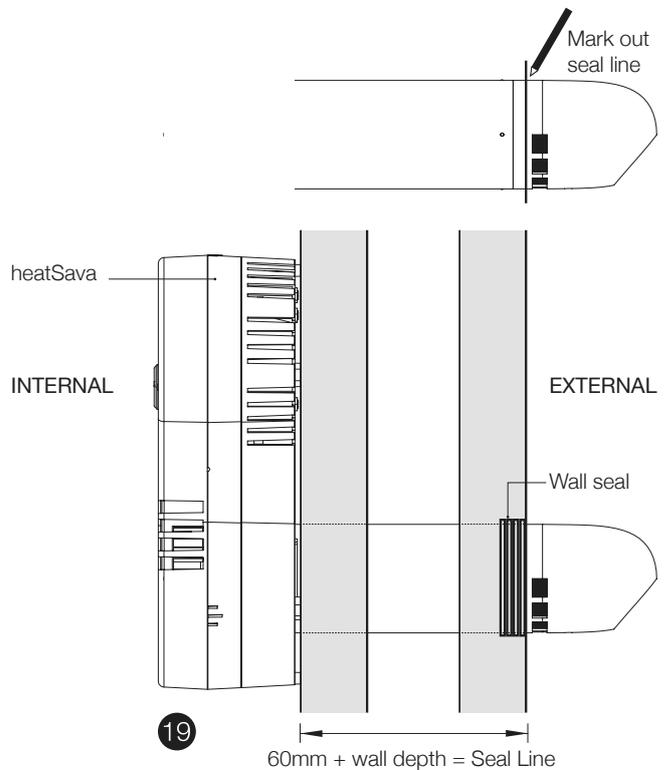
Fig.17B

- Carefully insert the heat cell through the aperture ensuring the cowl end is facing downwards (Fig.17B).



Fig.18A

- 18 Feed the power cable through the hole (See page 12, Fig.5A & 5B). Secure the rear and centre assembly together using the screws provided (Fig.18A).



06 Controls



Pullcord (Manual)

The heatSava comes complete with a pull cord to activate the boost if required. Pull once to activate the boost and once to deactivate



Intelligent Humidity Tracking (Automatic)

The heatSava has been engineered with intelligent controls to think for itself, meaning that you don't need to press any buttons or light switches to turn it on.

When the heatSava senses a rise in humidity, caused by increased moisture generation such as through cooking or showering, the extract and supply airflows will slowly begin to increase in direct proportion to the increase in humidity. It will then automatically track back down again when humidity falls. This controls condensation quietly and efficiently.



Summer Mode (Automatic)

During warmer days, the heatSava prevents warm air from entering the room and switches to provide extract ventilation only. As the temperature falls it automatically returns to heat recovery mode.



Frost Protection (Automatic)

The heatSava has an automatic built-in frost protection mechanism to prevent any damage to the heat exchange cell in cold conditions.

07 Maintenance



WARNING

Before carrying out any maintenance on the unit be sure to isolate the main power. All maintenance work should be carried out by a competent person.

Cleaning

General cleaning of the vents and cells should be every 6 months max, or as required, as environments will vary.

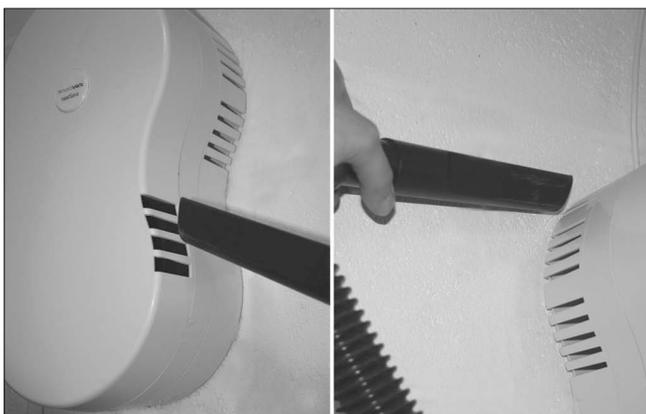


Fig.20A

20 Vacuum clean the side of the grille (Fig.20A)

Service Intervals

General maintenance should ideally take place every 12 months and should be carried out by a competent person adhering to the instructions stated in the cleaning section below.

5 Year Service

The heat exchange cell and all components and parts should be inspected every 5 years.



Fig.20B

Using a screwdriver remove the badge and undo the screw (Fig.20B). Next remove the front cover of the unit using the 3 release clips. Carefully keep hold of the front cover and disconnect the fan connectors.

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07 Maintenance

Maintenance Process

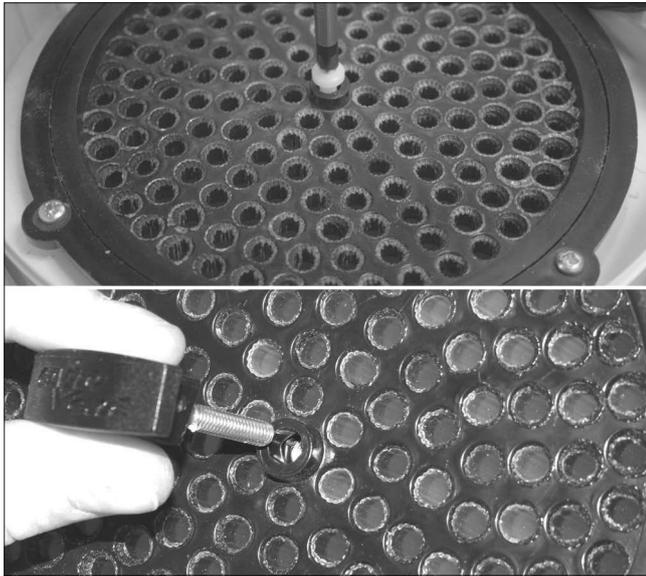


Fig.21A

- 21 Remove the plastic screw on the heat cell by using a screwdriver and screw the cell key in (Fig.21A).

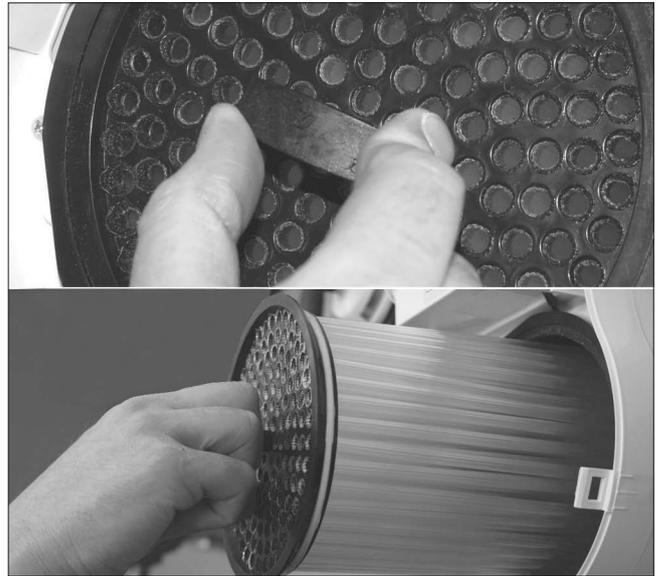


Fig.21B

- Remove the heat cell by holding the cell key to pull it out. When removing, handle the heat cell carefully and do not squeeze the tubes (Fig.21B).

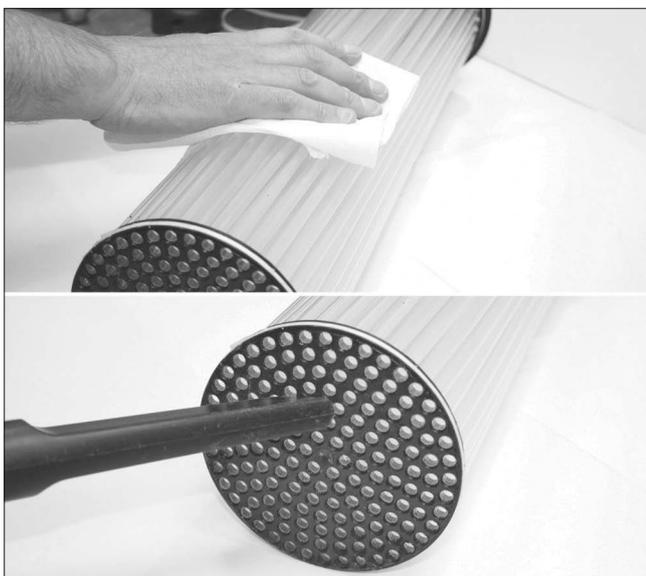


Fig.22A

- 22 Remove any dust or dirt using a dry or damp cloth. Alternatively gently vacuum the cell, ensuring you do not damage the tubes (Fig.22A).

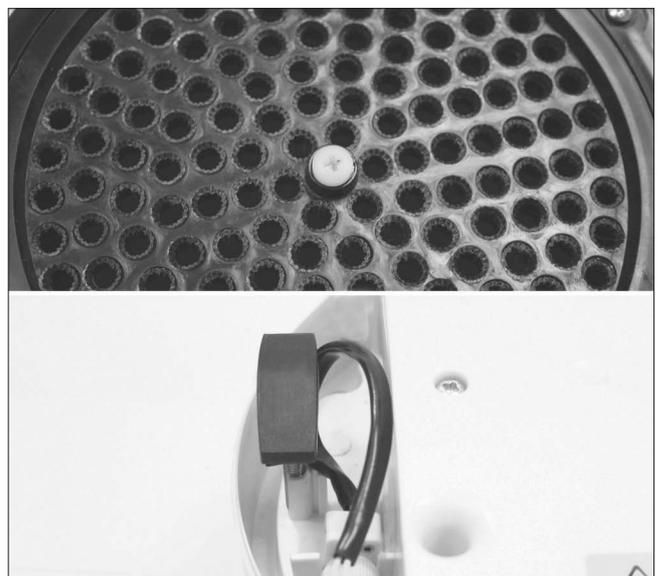
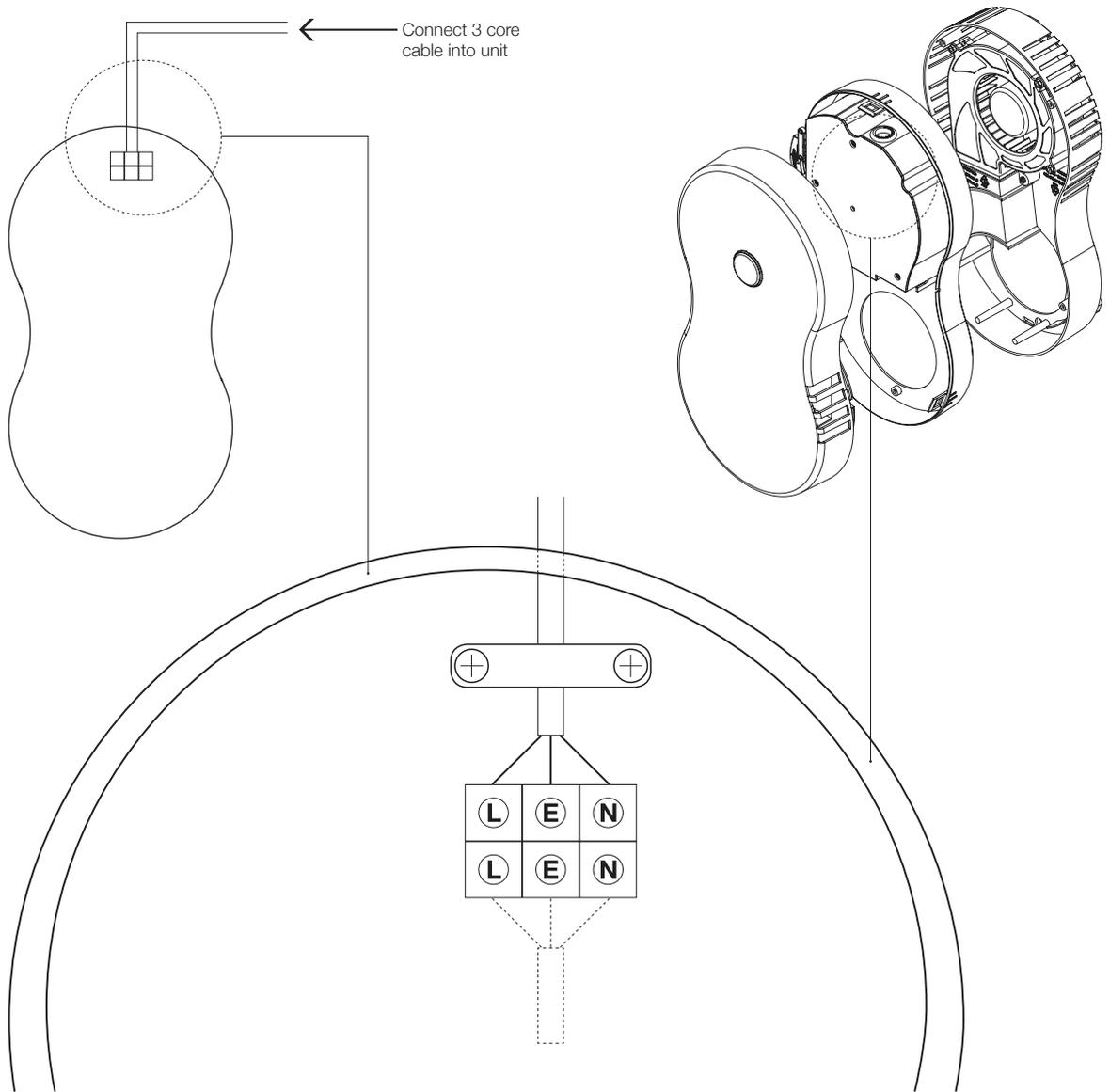


Fig.22B

- Carefully place the heat cell back in its casing. Next remove the cell key and place it back in its holder. Ensure the plastic screw is fixed back into the heat cell (Fig.22B).

08 Wiring Diagrams

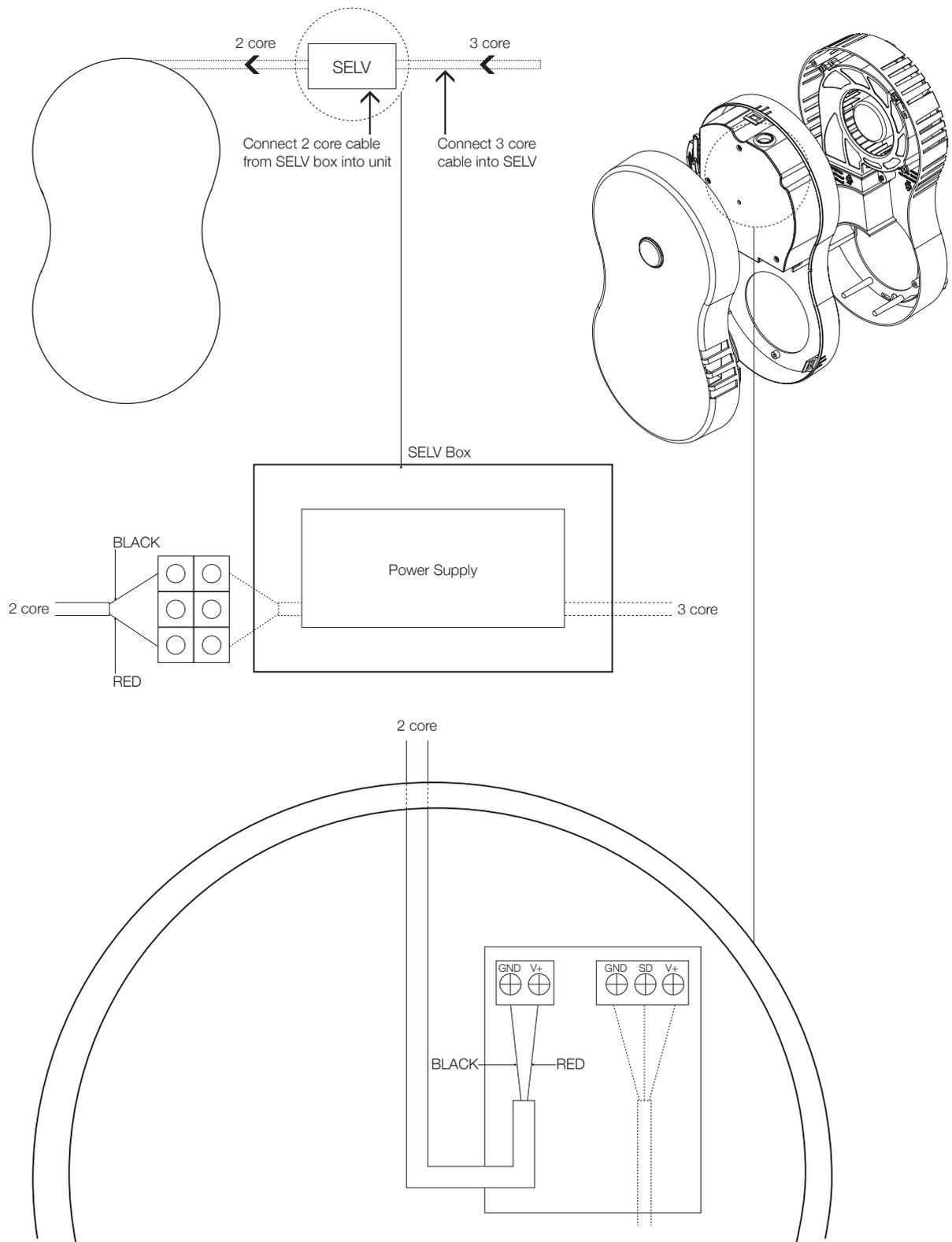
Mains



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08 Wiring Diagrams

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