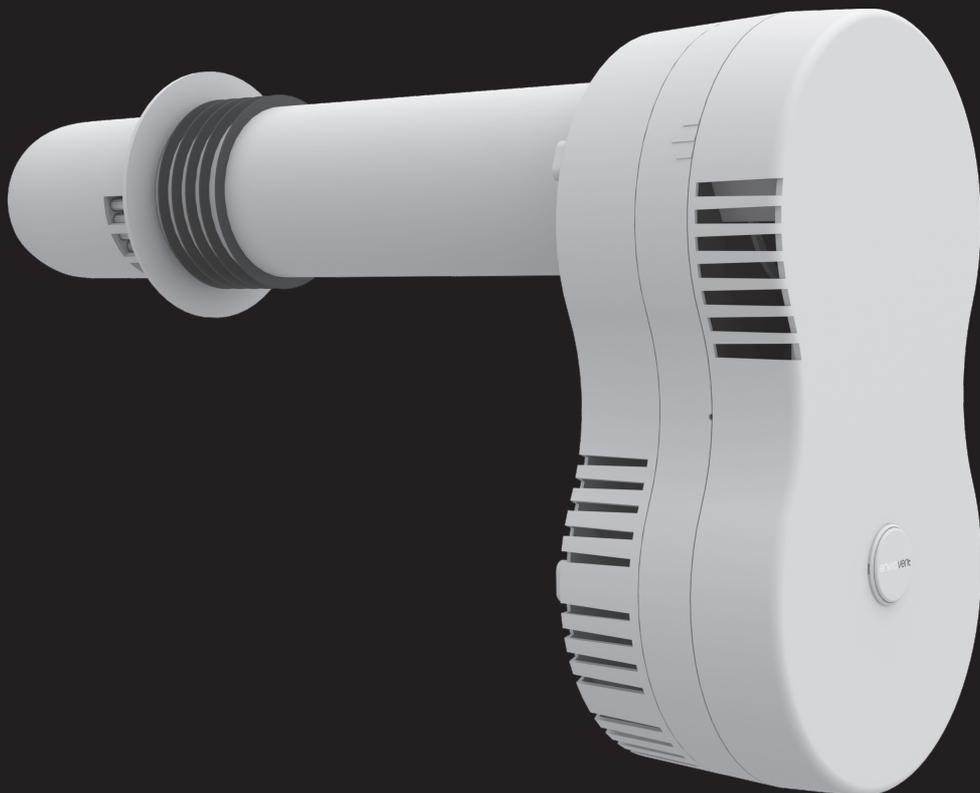

envirovent®

heatSava

Intelligent Single Room Heat Recovery Unit

INSTALLATION GUIDE FOR
ENGINEER / INSTALLER



Contents

01	Introduction	2
02	Technical Specification	3-4
03	Wiring Diagrams	5-6
04	Safety	7-8
05	Controls	8
06	Box Contents	9

07	Tools Checklist	10
08	Installation Steps	11
09	Installation	12-22
10	RF Controller (Optional)	23
11	Cleaning & Maintenance	24-26
12	Guarantee	27

01 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 4). The unit is installed from the inside out to allow for ease of installation in high-rise applications. The heatSava is exceptionally versatile and can be installed horizontally or vertically in 4 different positions through 360°. The unit has been designed to operate continuously.

Thank you for choosing EnviroVent

The fastest growing ventilation company in the UK

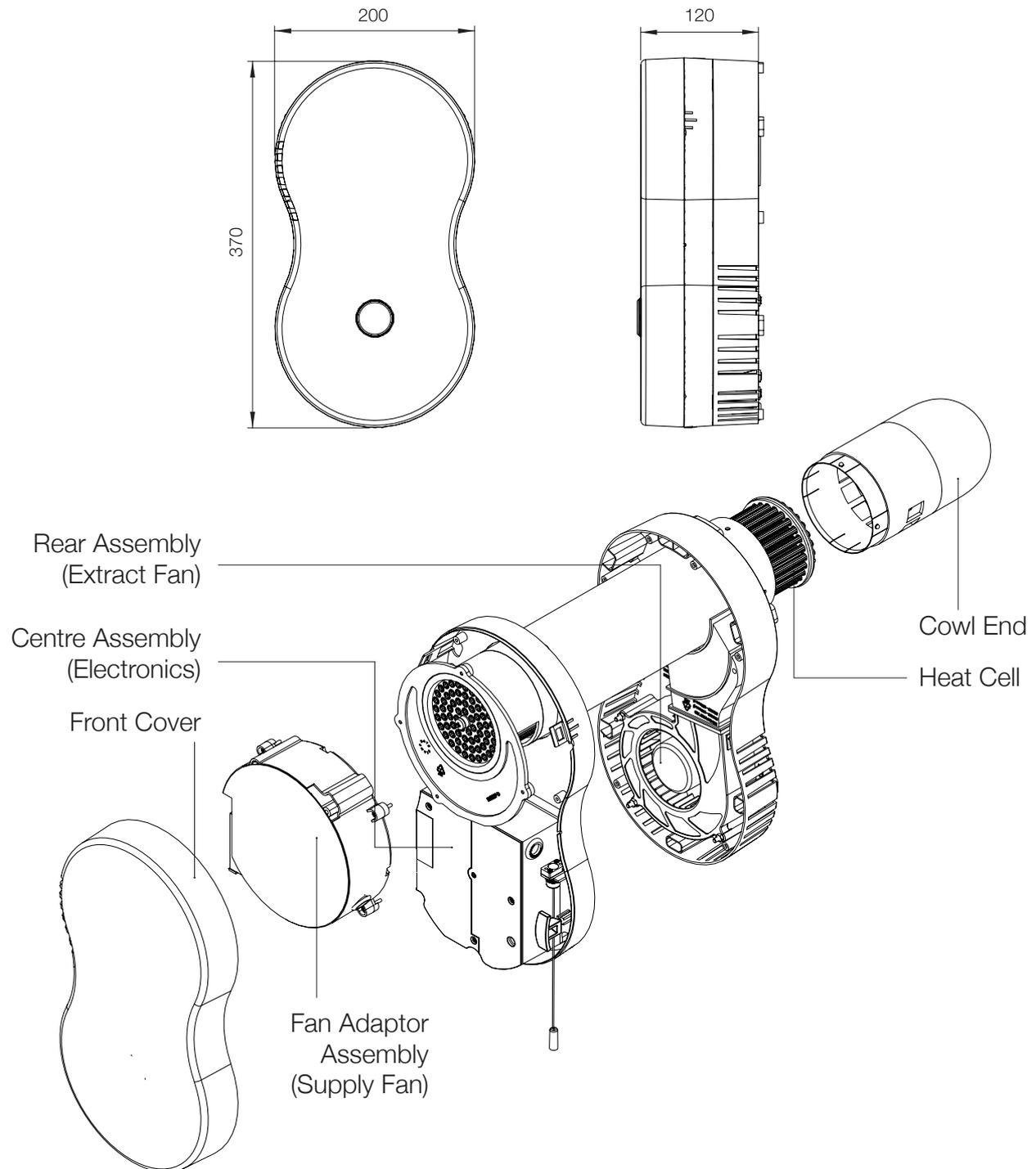
Ensure that this product is treated with care, installed and maintained correctly i.e. for the life of the building. Remember, if you have any problems please call our dedicated Technical Team.



Made in Harrogate
UK

02 Technical Specifications

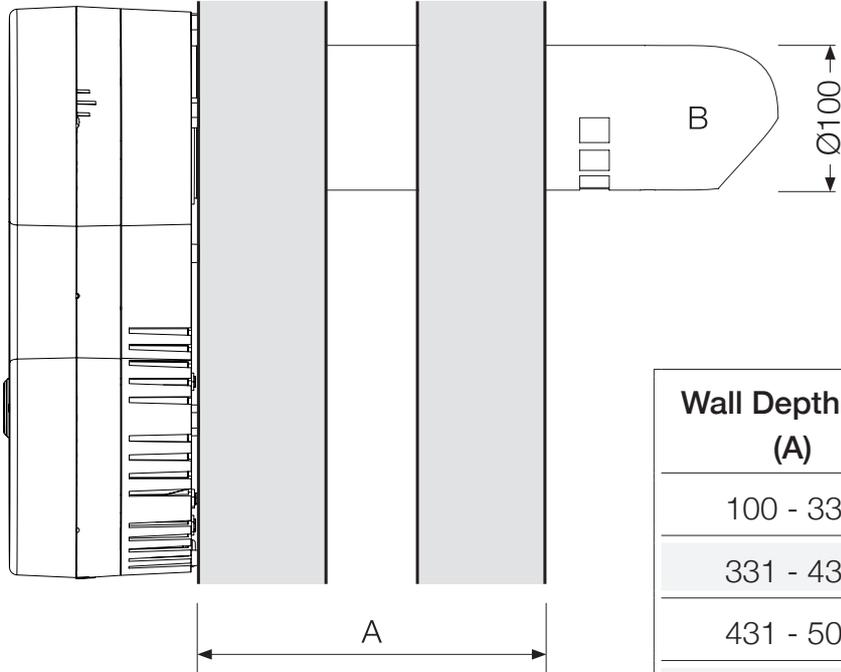
Unit Dimensions



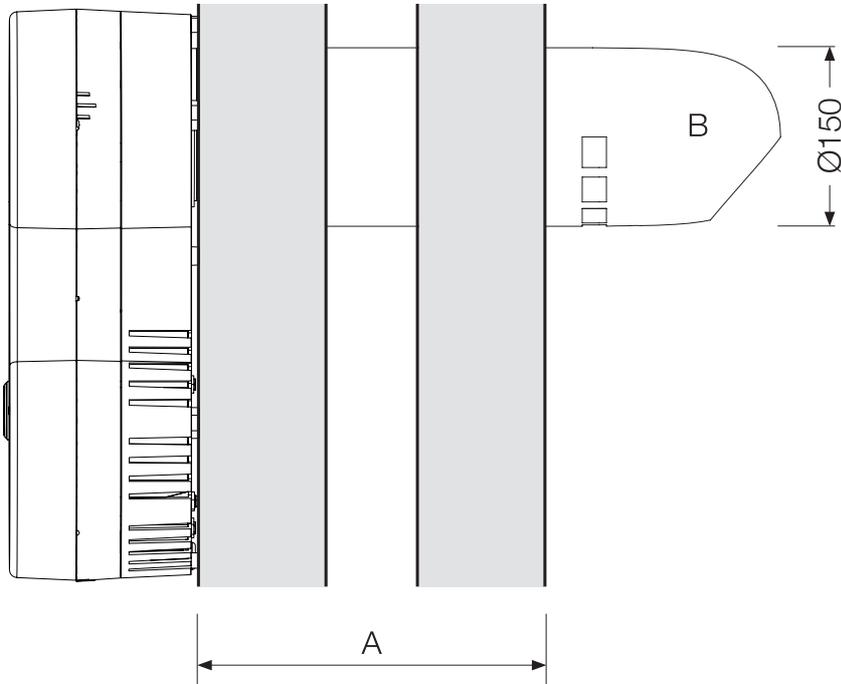
AFTER INSTALLING THIS UNIT PLEASE PASS ON TO END USER
DO NOT THROW AWAY

02 Technical Specifications

Heat Cells Options

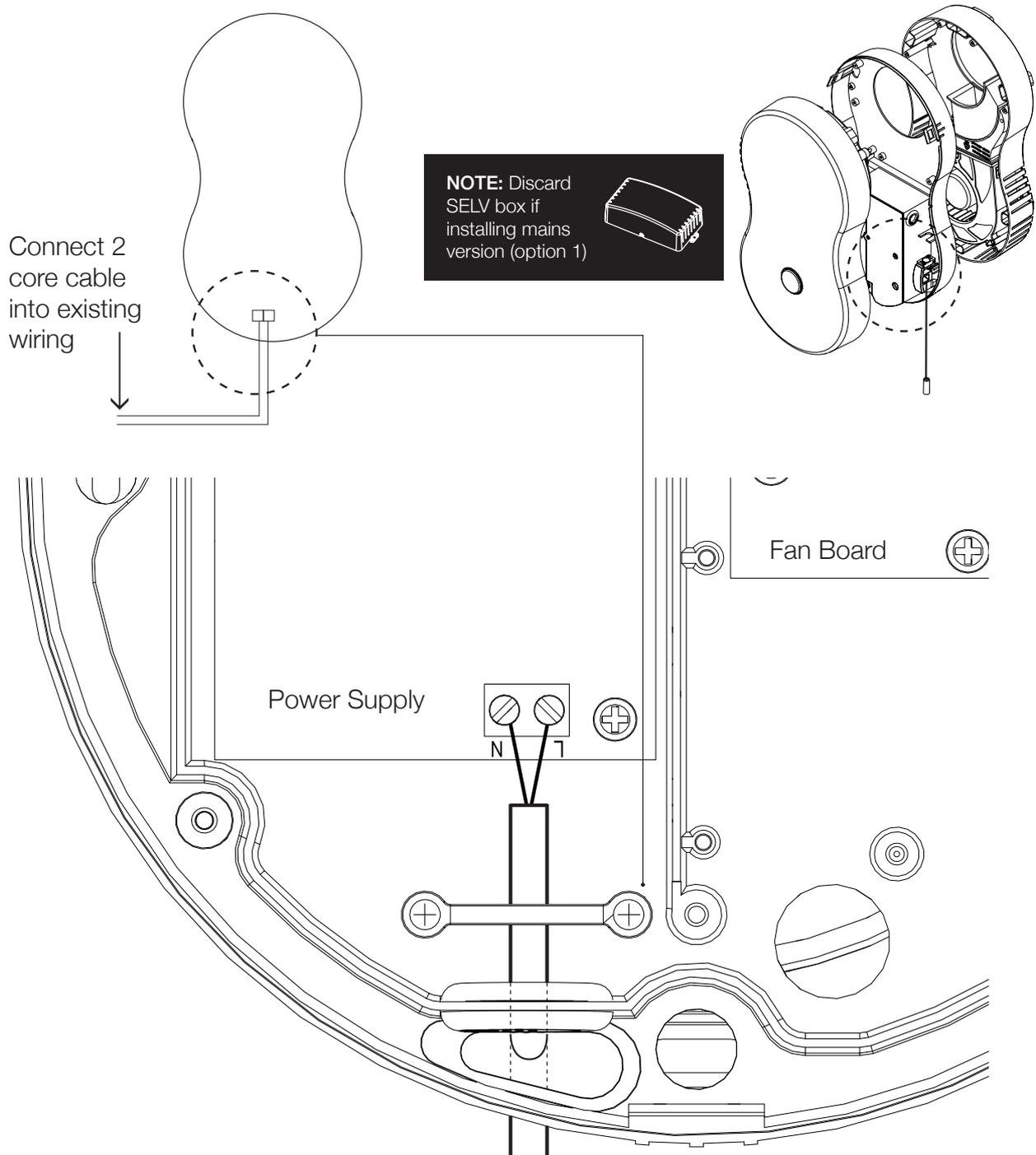


Wall Depth mm (A)	Cell Order Size mm (B)
100 - 330	330
331 - 430	430
431 - 500	500
501 - 600	600



03 Wiring Diagrams - Mains

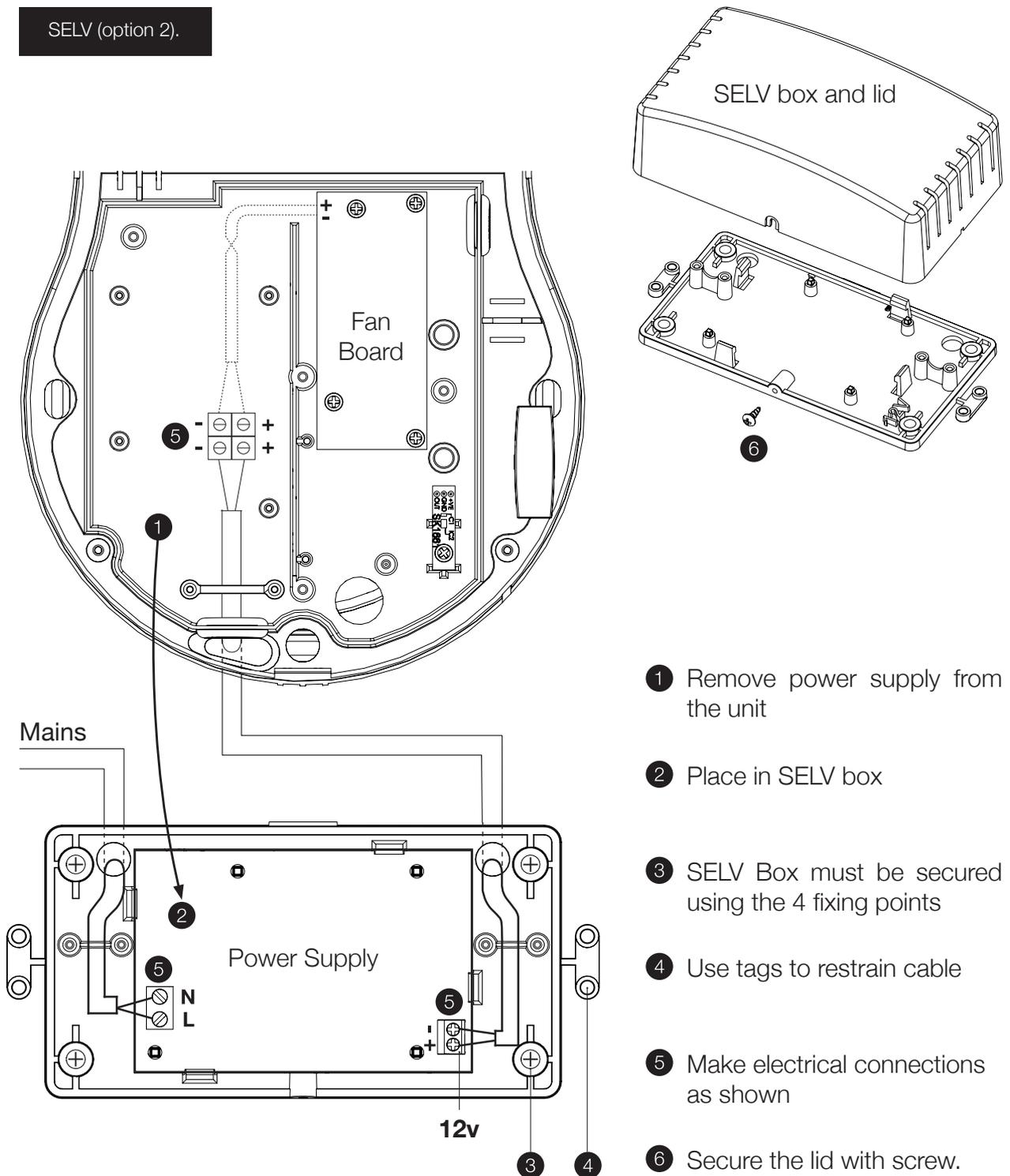
NOTE: This unit is supplied as a mains version (option 1). See next page for SELV (option 2).



AFTER INSTALLING THIS UNIT PLEASE PASS ON TO END USER
DO NOT THROW AWAY

03 Wiring Diagrams - SELV

SELV (option 2).



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 not position the unit near any water devices such as taps, shower heads 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 can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- For a bathroom application the power supply should be installed outside the bathroom as it is 230V.

IMPORTANT: 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, you must ensure that the unit is positioned a minimum distance away of; 1 metre horizontally, 1 metre below or 3 metres above any boiler flue etc.

In kitchens, if the unit has to be fitted above a cooker, it must be installed a minimum distance of 650mm above electric cookers and 750mm above gas cookers, and not have a pullcord fitted.

AFTER INSTALLING THIS UNIT PLEASE PASS ON TO END USER
DO NOT THROW AWAY

04 Safety

Electrical Assembly

When wiring the unit in, a suitable disconnect device such as a 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 regulations. The disconnection may

be achieved by incorporating a switch in the fixed wiring in accordance with the wiring regulations.

The electrical install comprises of a power supply unit or a low voltage box - SELV. See pages 5-6 for wiring diagrams.

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

EnviroVent Ltd

RATED INPUT: 230V ~ / 50/60Hz / 30W / 0.2A



MODEL:
heatSava (230V)



INDOOR USE ONLY (IPX4) T



NO OBSOLESCENCE

DESIGNED TO BE RECYCLED

EnviroVent Ltd

RATED INPUT: 100-240V ~ / 50/60Hz / 30W / 0.2A



MODEL:
heatSava (Universal)



INDOOR USE ONLY (IPX4) T



NO OBSOLESCENCE

DESIGNED TO BE RECYCLED

05 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.



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.



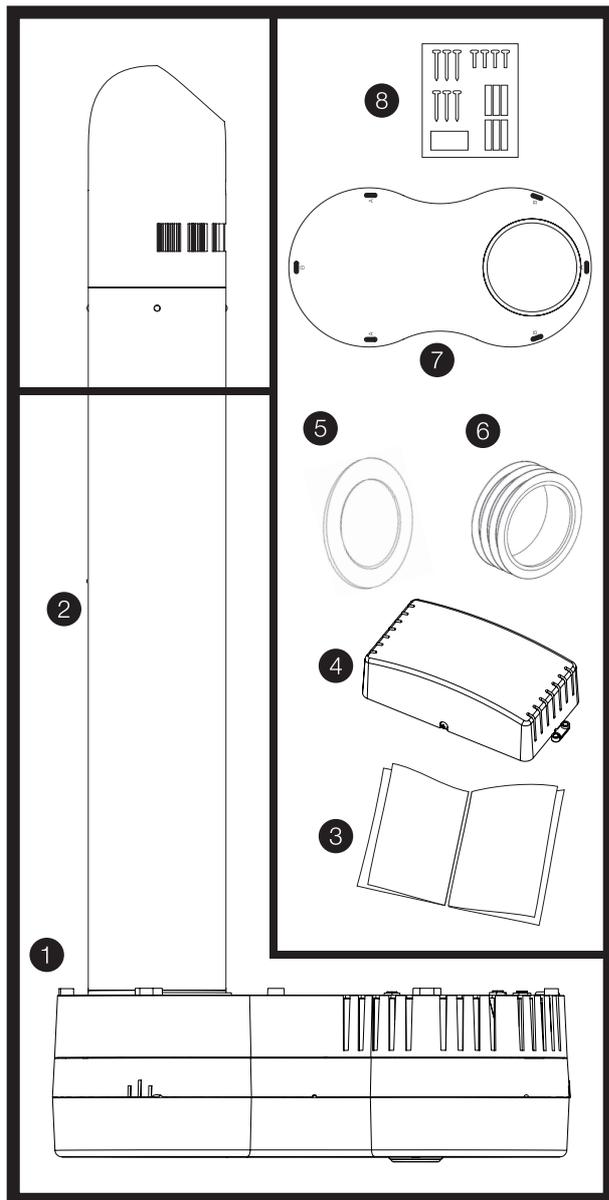
Intelligent Humidity Tracking (Automatic)

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.

06 Box Contents



	Description	Quantity	Item
1	heatSava Unit	1x	
2	Heat Cell	1x	
3	Instructions Guide	1x	
4	SELV Box	1x	
5	Halo (Wall Kit Contents)	1x	
6	Wall Seal	1x	
7	Fixing Template	1x	
8	Fixing Kit	1x	
	8G X 2.0" - (Fixing Kit Contents)	10x	
	Red Wall Plugs - (Fixing Kit Contents)	10x	
	Terminal Block (Spare)	1x	
	6G X 5/8" - (Fixing Kit Contents)	4x	

AFTER INSTALLING THIS UNIT PLEASE PASS ON TO END USER
DO NOT THROW AWAY

07 Tools Checklist (Not supplied)

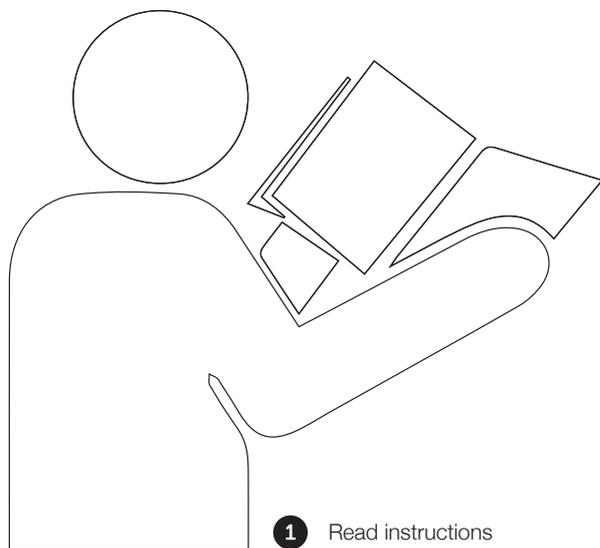
Description	Item
Core Drill	
Electric Screwdriver	
Long & Short Screwdriver	
Small Terminal Screwdriver	
Spirit Level	
Cutting Pliers	
Long Nose Pliers	
Ladder	
Solvent Cement	
Silicone	

08 Installation Steps

Step	Instruction	Page Number
1	Read Instructions	12
2	Boiler flue exclusion zone	12
3	Use the template to position and orientate the unit	12
4	Check unit size & wall depth	13
5	Clearance from walls and ceilings	14
6	Heat cell cowl orientation	15
7	Use marking template	16
8	Drill fixing holes	16
9	Drill core hole	16
10	Wall sleeve	17
11	Rubber wall seal	18
12	Fit pull cord to suit orientation	20
13	Fix unit to wall	21
14	Make electrical connection	21
15	Check unit is working	21
16	Fit halo to outside if required	22
17	Wireless control (optional)	23
18	Inform building owner/user on how to operate the system	
19	Give instructions to end user	
<p>These checks are required to ensure the proper function of this unit. For EnviroVent Technical help call 0345 27 27 810</p>		

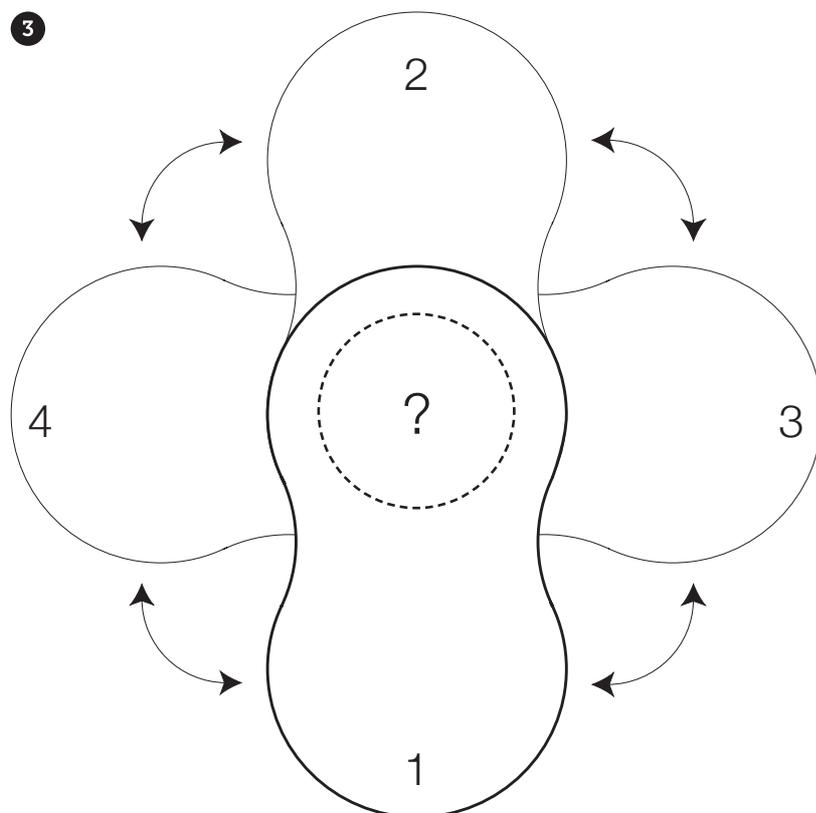
AFTER INSTALLING THIS UNIT PLEASE PASS ONTO END USER
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09 Installation



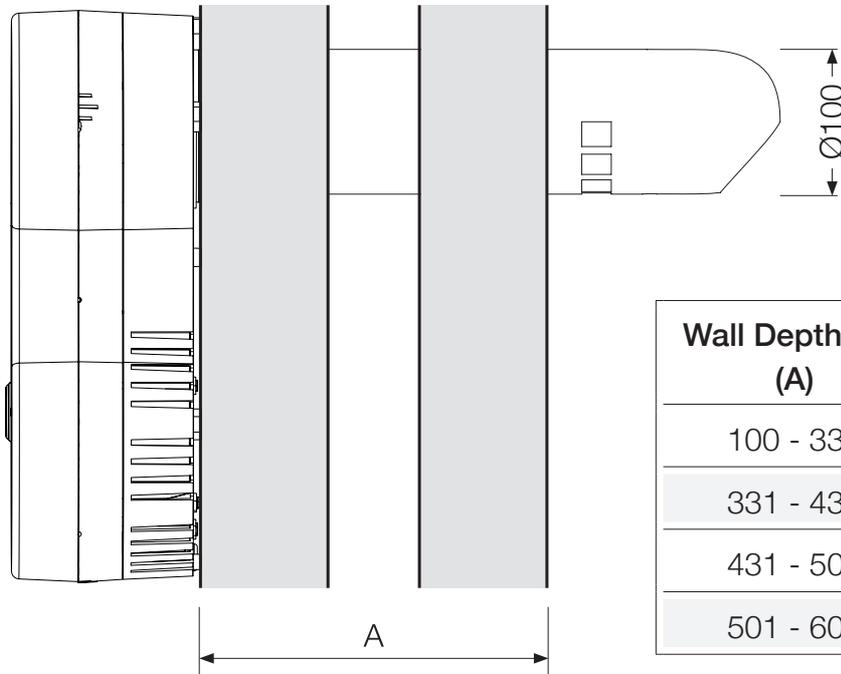
IMPORTANT: This unit draws air in from atmosphere and you must ensure that any emissions from any other systems such as gas or oil boilers, do not contaminate the air entering the heatSava product. Therefore, before installation, consider where the external cowl will be located in relation to any boiler flues etc. Externally, you must ensure that the unit is positioned a minimum distance away of; 1 metre horizontally, 1 metre below or 3 metres above any boiler flue etc.

In kitchens, if the unit has to be fitted above a cooker, it must be installed a minimum distance of 650mm above electric cookers and 750mm above gas cookers, and not have a pullcord fitted.

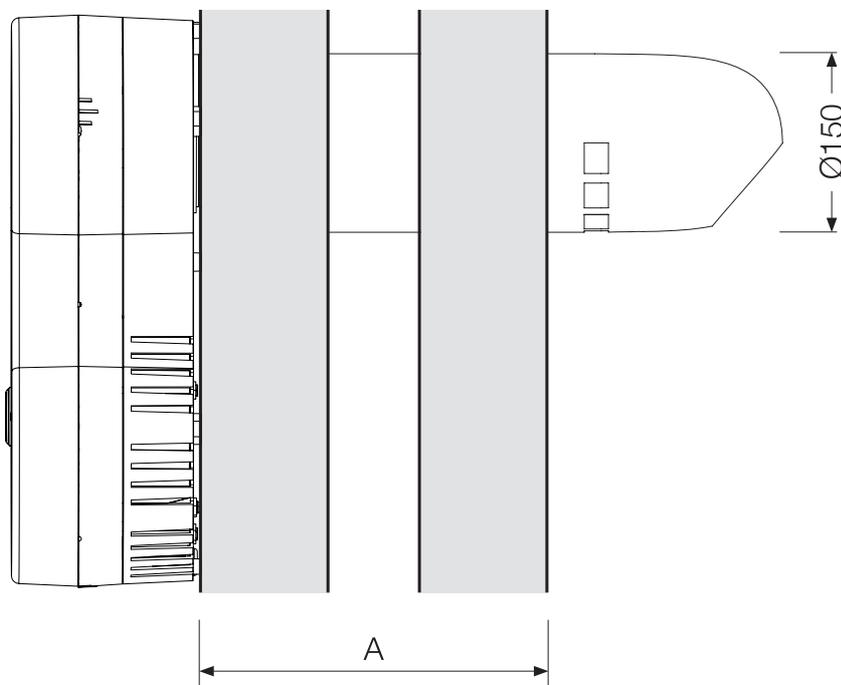


09 Installation

4 Select Unit



Wall Depth mm (A)	Cell Order Size mm (B)
100 - 330	330
331 - 430	430
431 - 500	500
501 - 600	600



AFTER INSTALLING THIS UNIT PLEASE PASS ON TO END USER
DO NOT THROW AWAY

09 Installation

5 Clearance - Walls

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.5).

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.

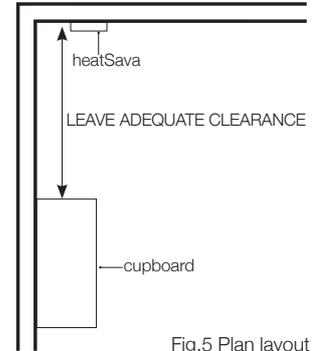
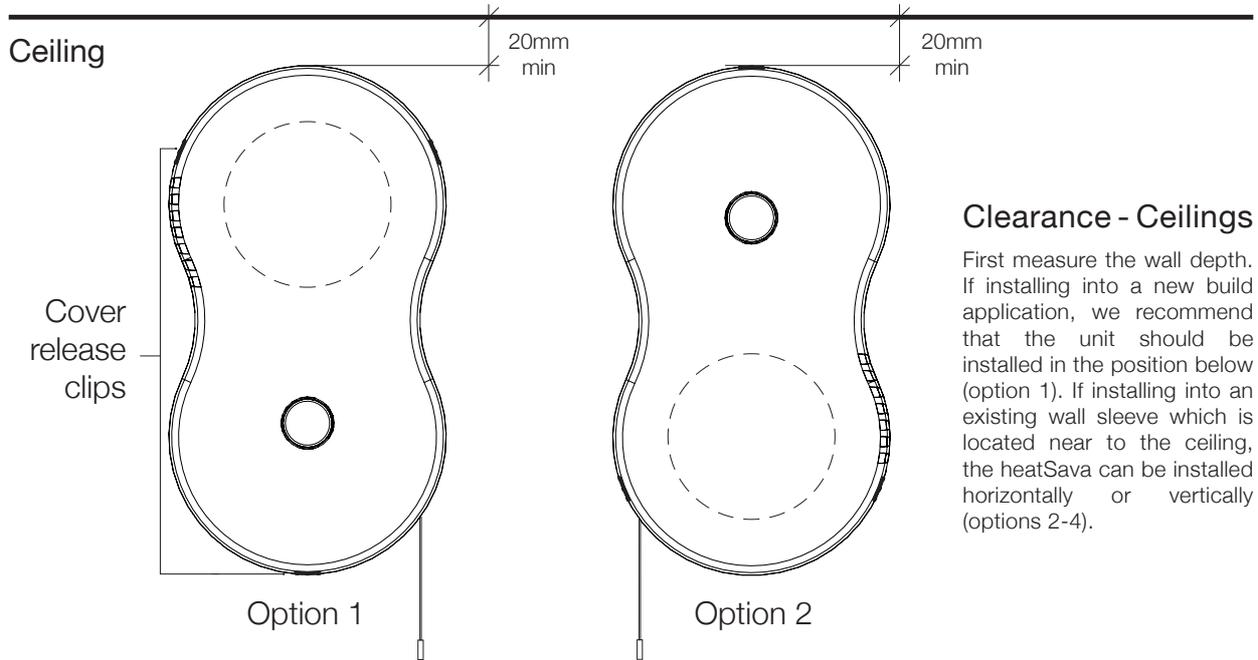
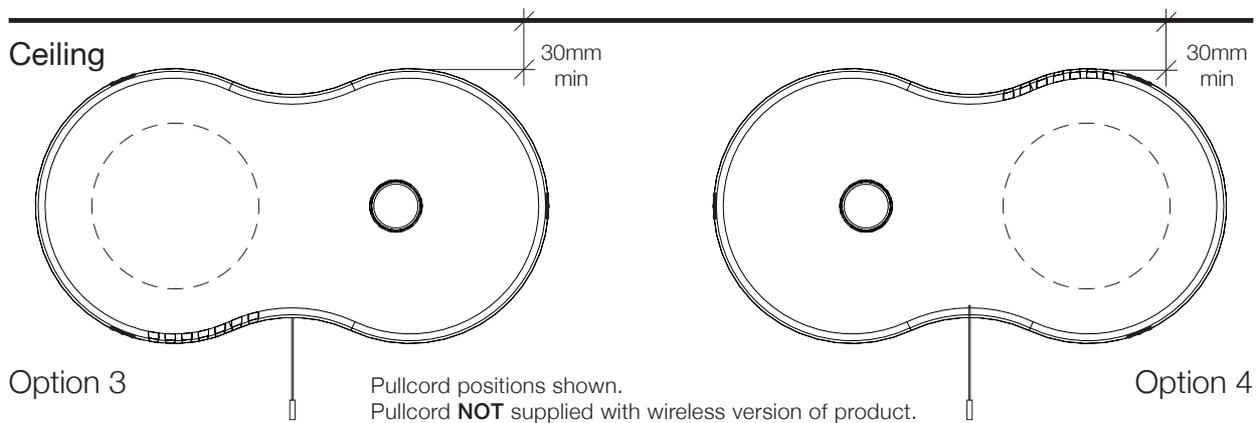


Fig.5 Plan layout



Clearance - Ceilings

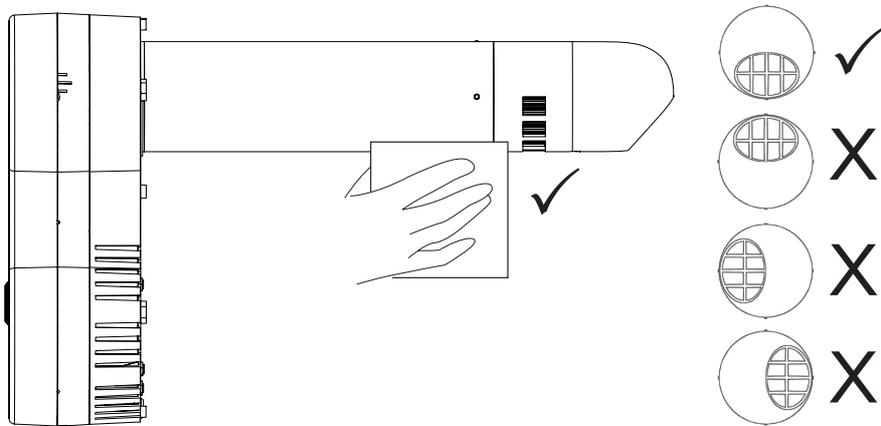
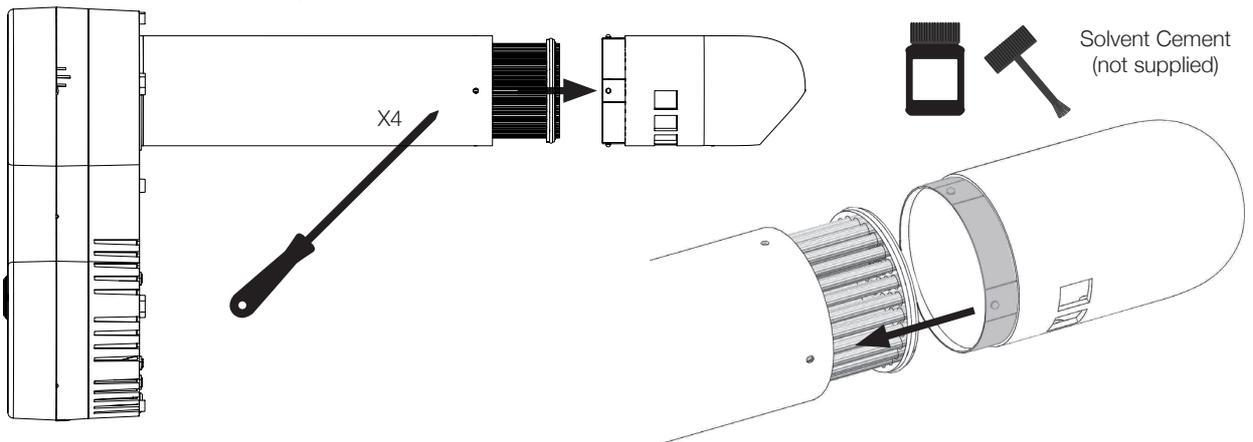
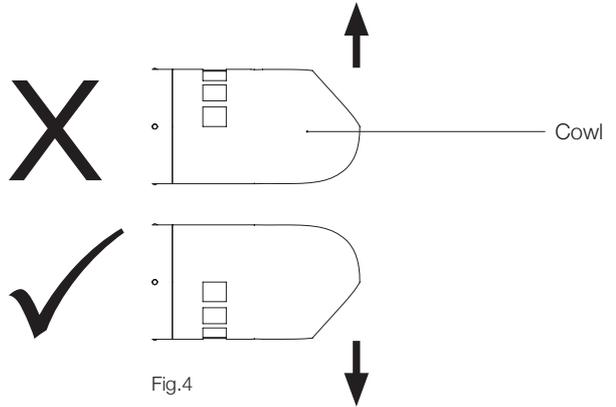
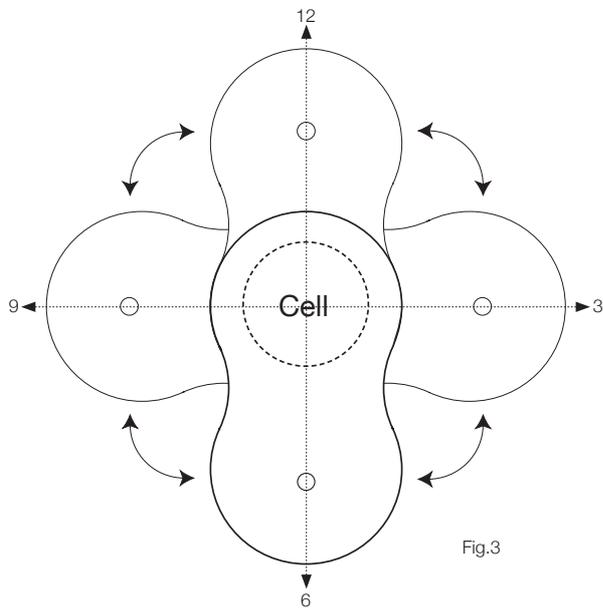
First measure the wall depth. If installing into a new build application, we recommend that the unit should be installed in the position below (option 1). If installing into an existing wall sleeve which is located near to the ceiling, the heatSava can be installed horizontally or vertically (options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



09 Installation

6 Heat Cell - Cowl Orientation

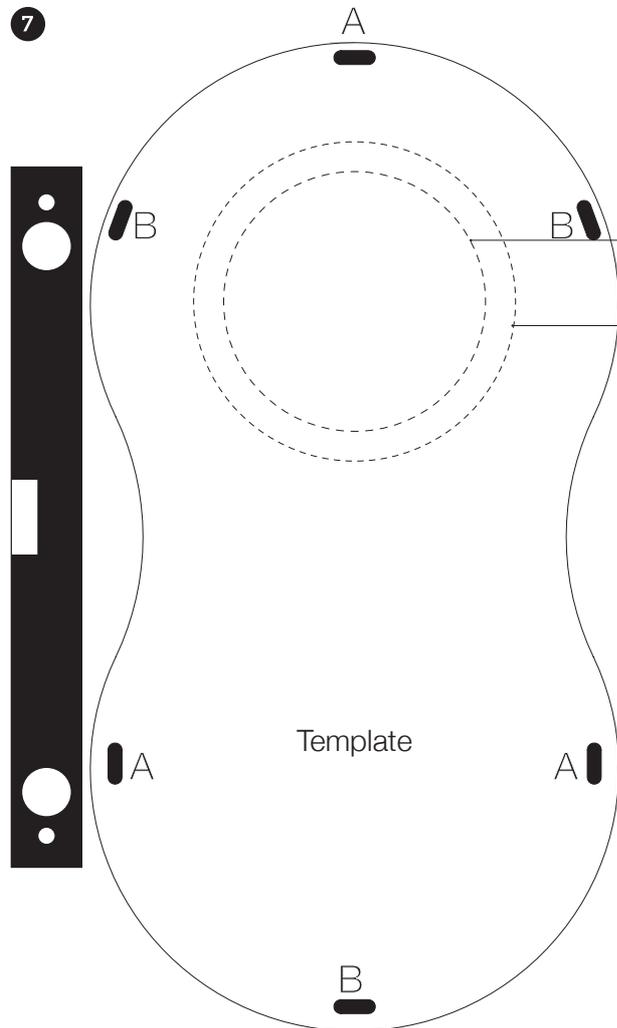
When fitting the heat cell into a wall, ensure that the cowl end is correctly orientated with the end always facing down. (Fig 4.)



AFTER INSTALLING THIS UNIT PLEASE PASS ON TO END USER
DO NOT THROW AWAY

09 Installation

7

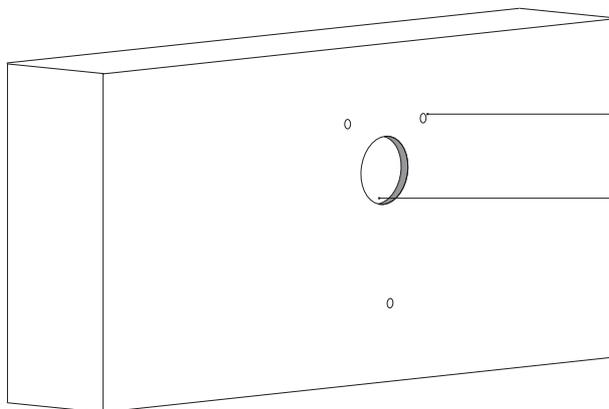


Select core drill size

100	107mm	Wall Sleeve
	117mm	Wall Seal
150	158mm	Wall Sleeve
	162mm	Wall Seal



8 9

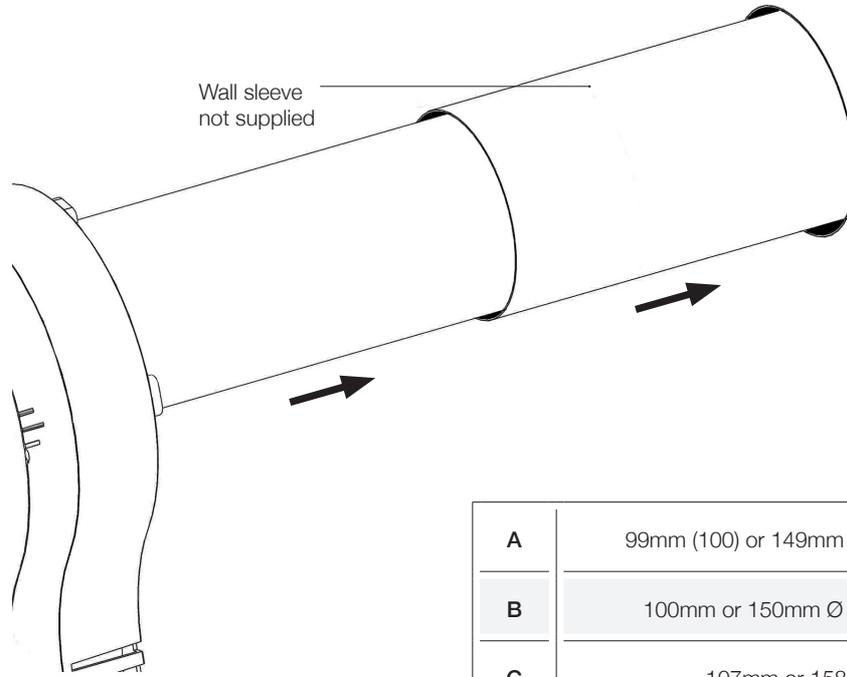


X3
Use either holes
'A' or 'B'
107, 117, 158, 162



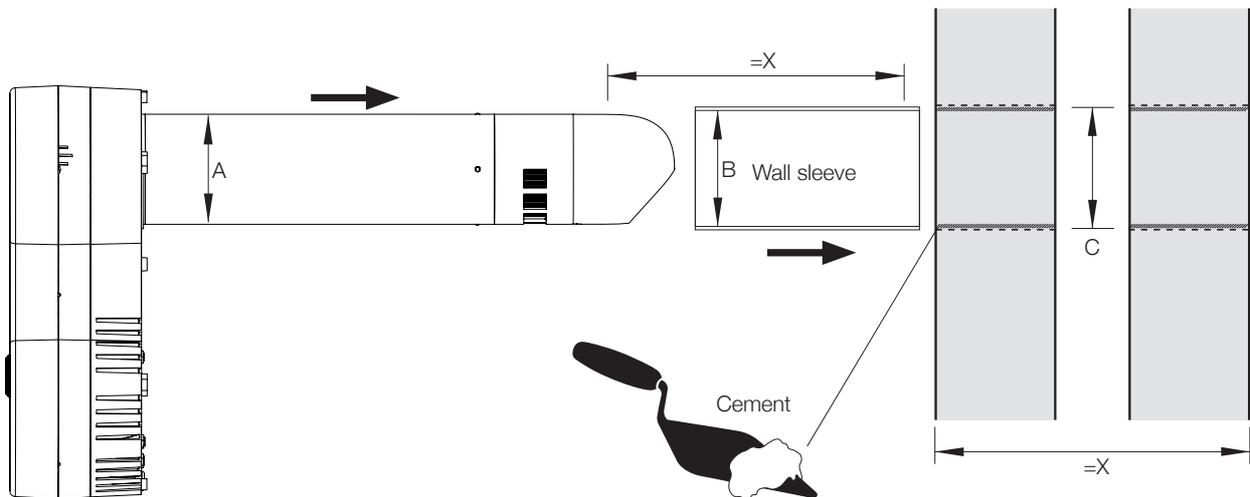
09 Installation

- 10 **Wall Sleeve** - Choose rubber wall seal or wall sleeve installation.



A	99mm (100) or 149mm (150) Ø overall
B	100mm or 150mm Ø internal (min)
C	107mm or 158mm Ø
X	X

Use existing sleeve or insert new sleeve into wall.

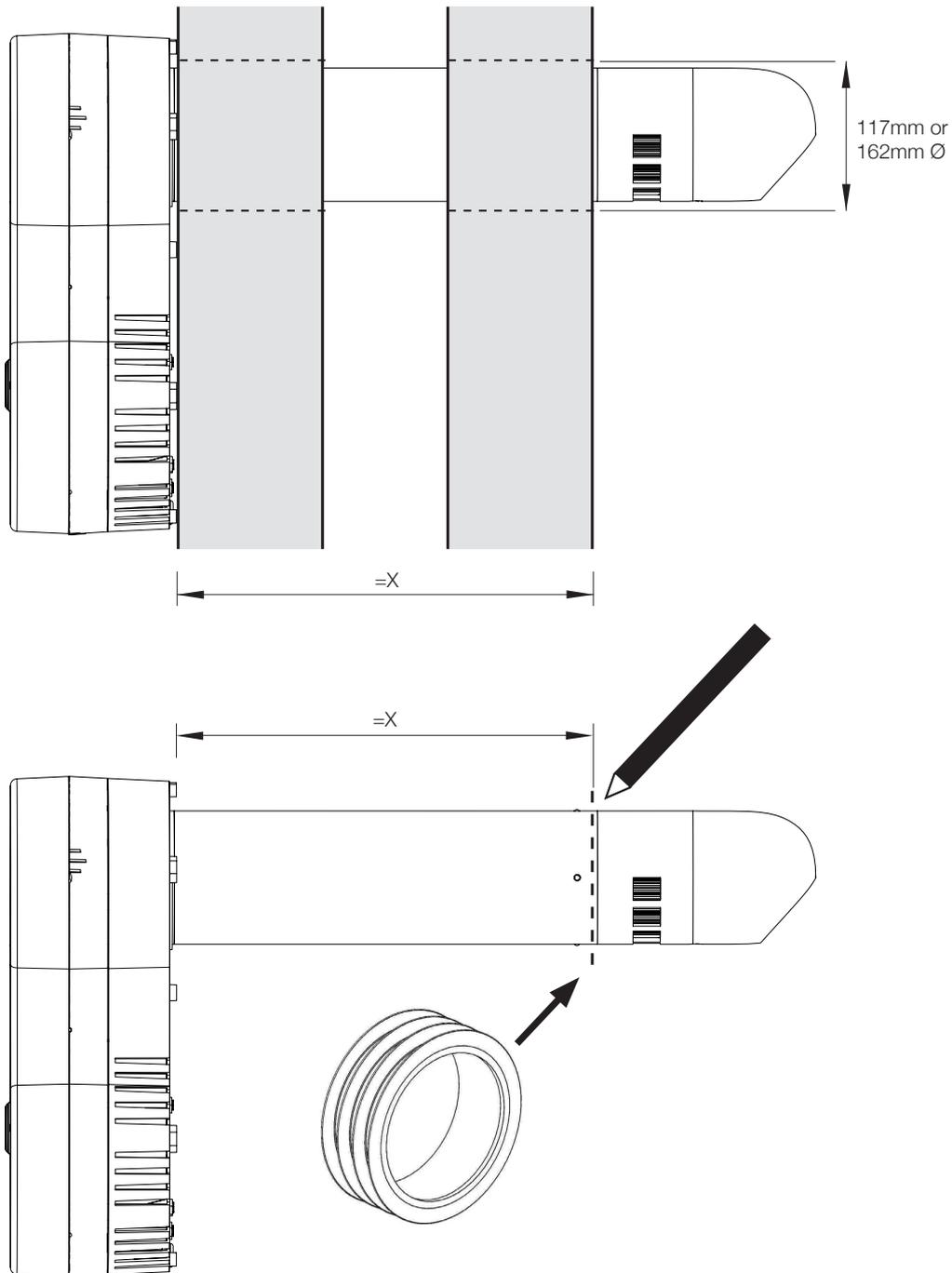


Apply cement around sleeve and insert through wall.

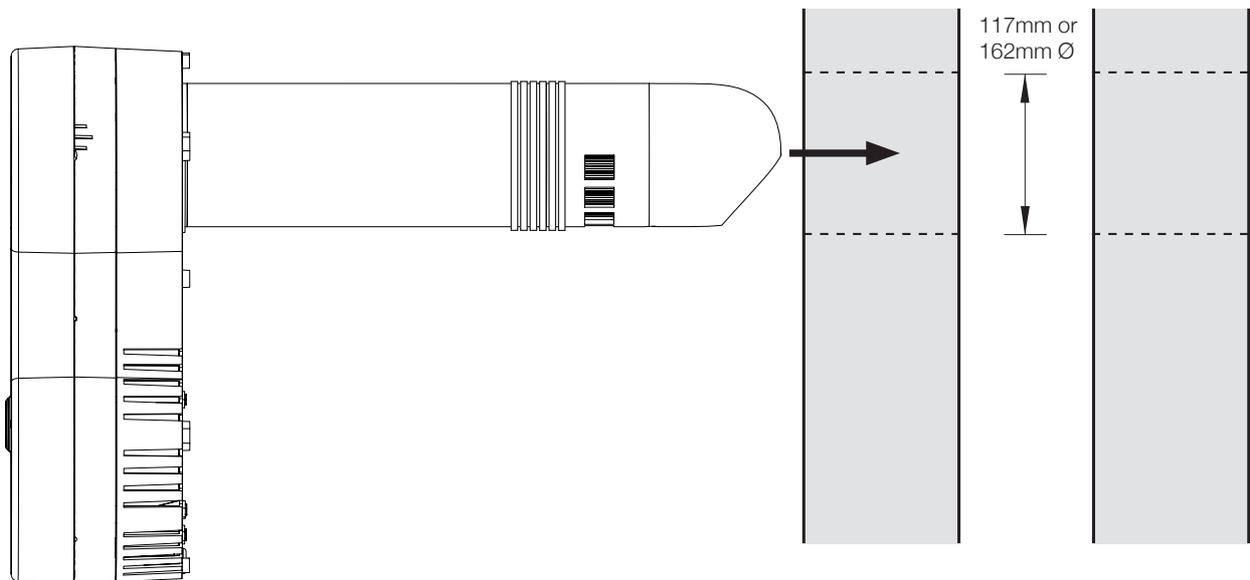
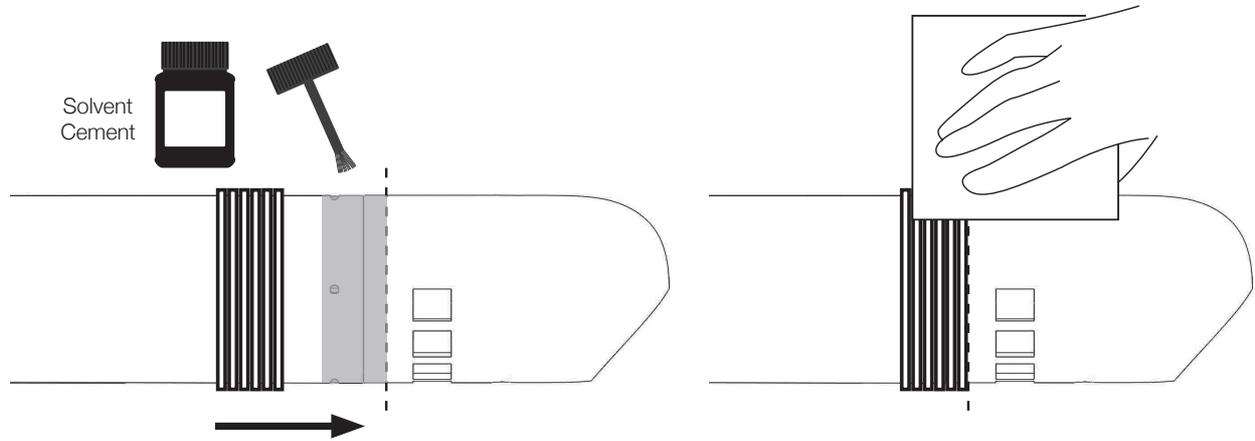
AFTER INSTALLING THIS UNIT PLEASE PASS ON TO END USER
DO NOT THROW AWAY

09 Installation

- 11 Rubber Wall Seal - Choose rubber wall seal or wall sleeve installation.



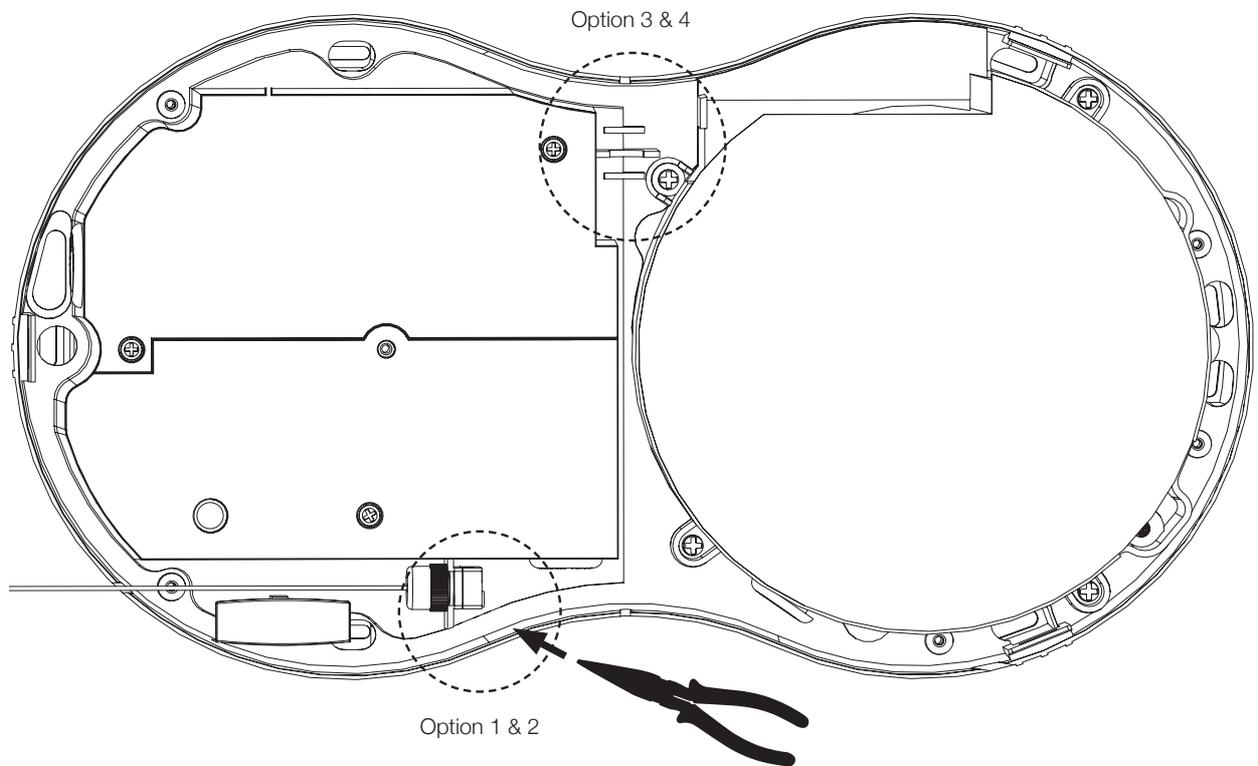
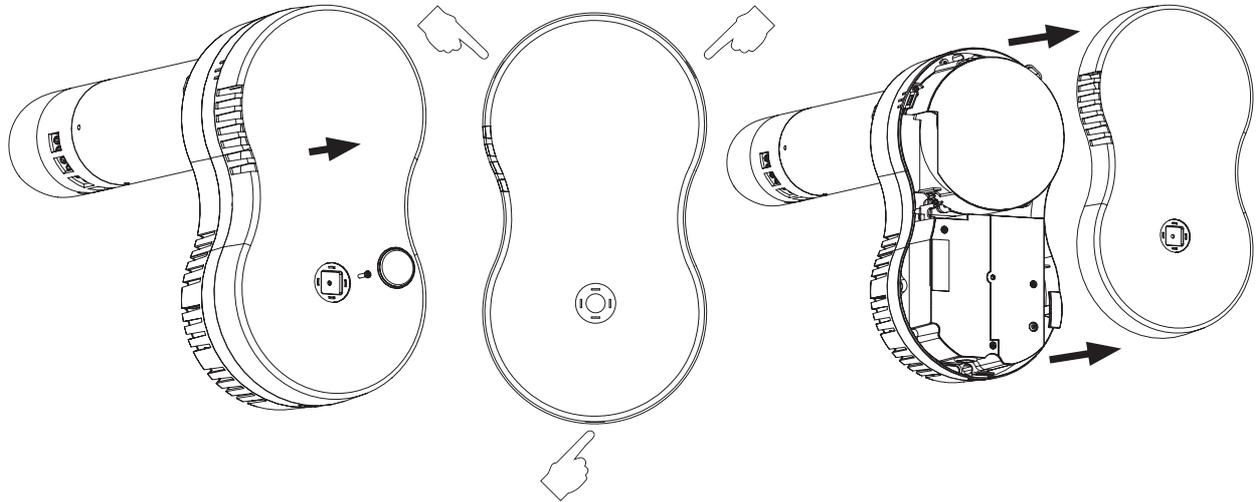
09 Installation



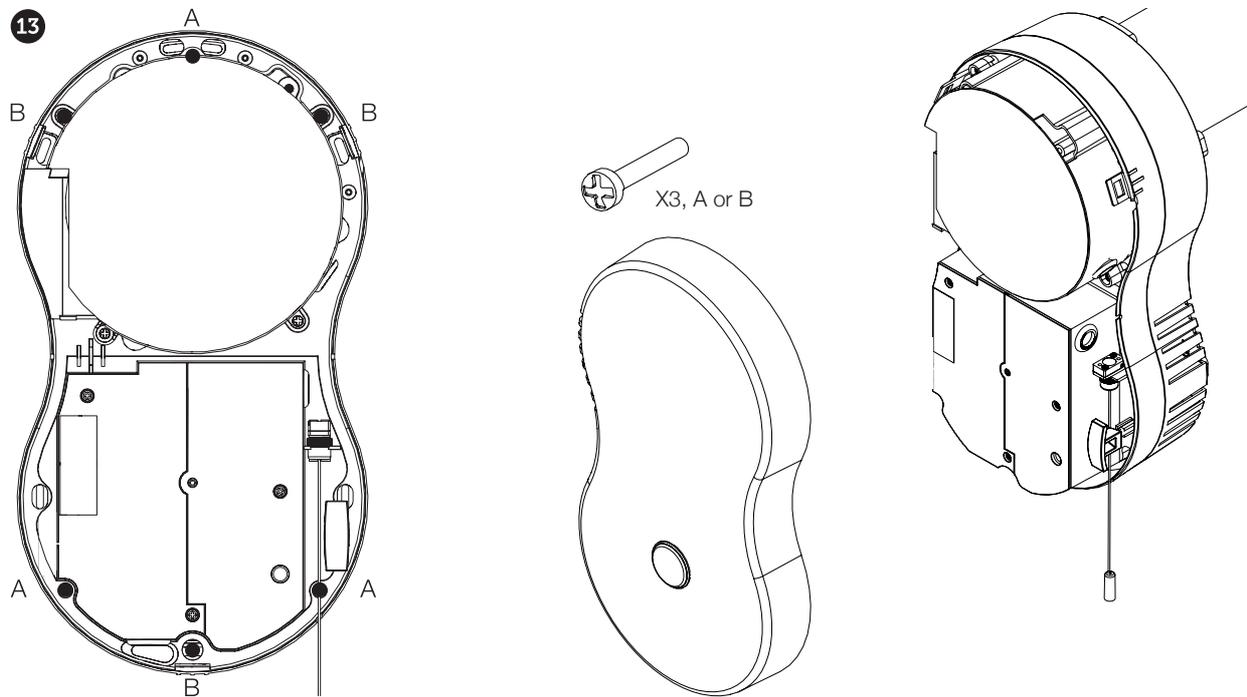
AFTER INSTALLING THIS UNIT PLEASE PASS ONTO END USER
DO NOT THROW AWAY

09 Installation

12 Pullcord - See page 14 for pullcord options.

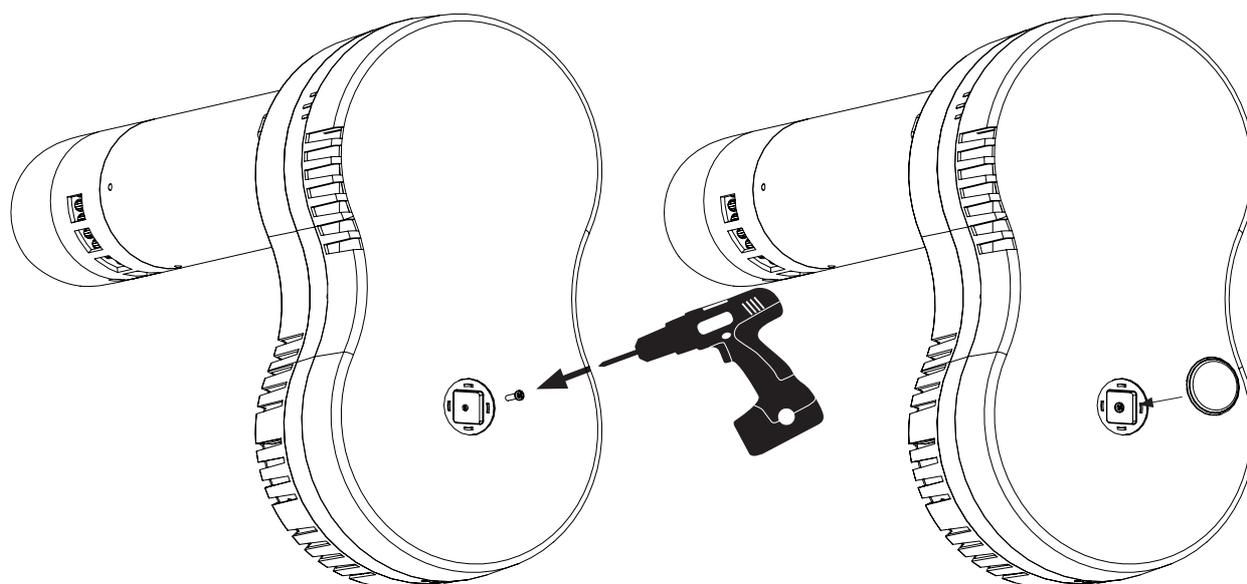


09 Installation



14 Make electrical connection - See pages 5 and 6

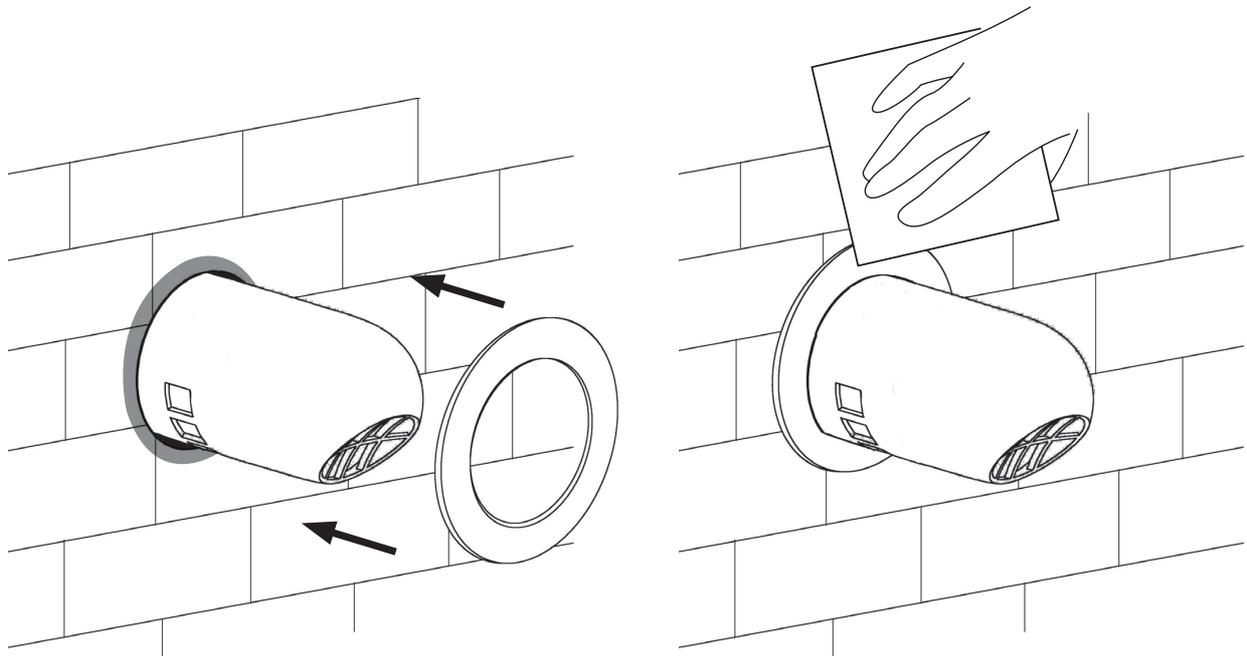
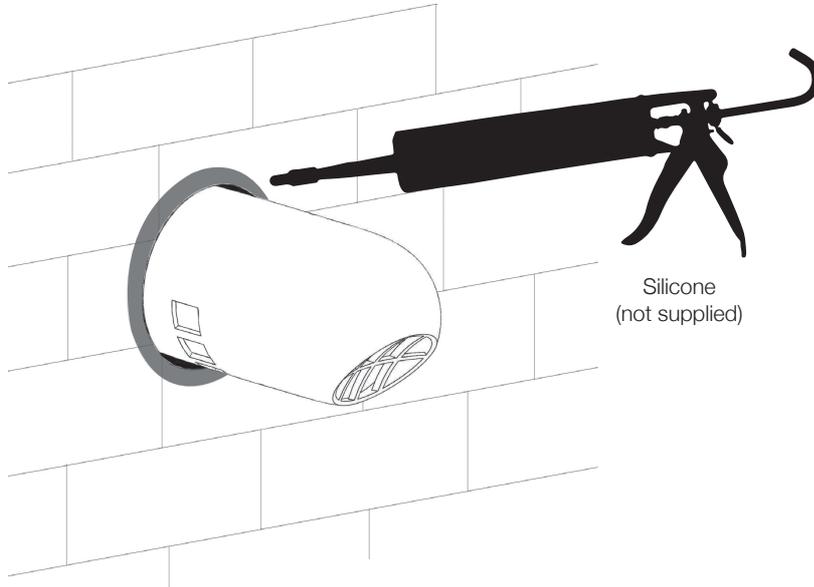
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AFTER INSTALLING THIS UNIT PLEASE PASS ON TO END USER
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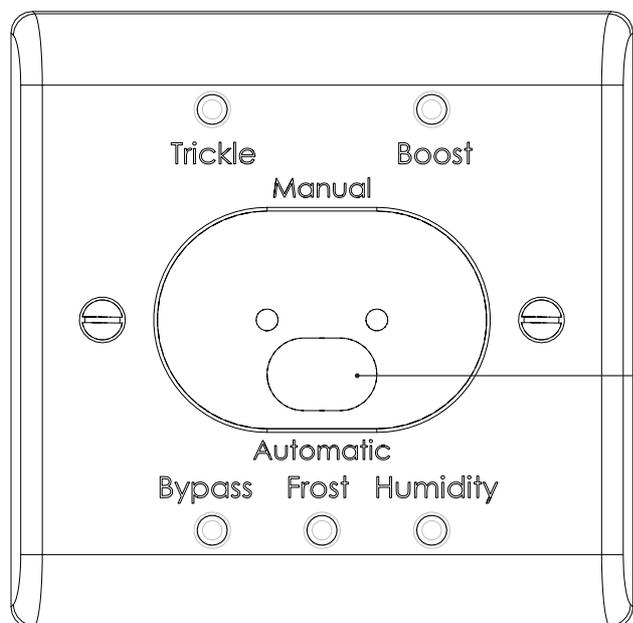
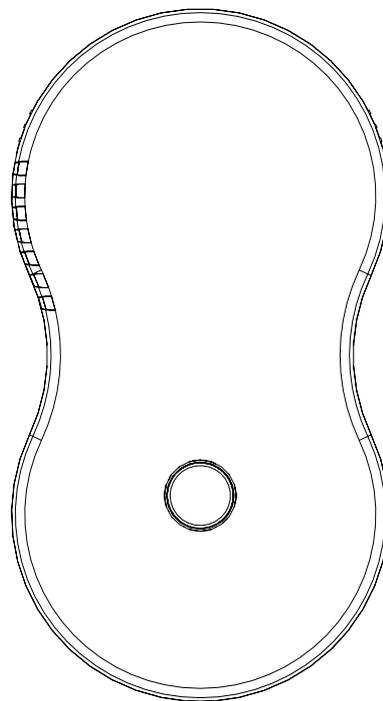
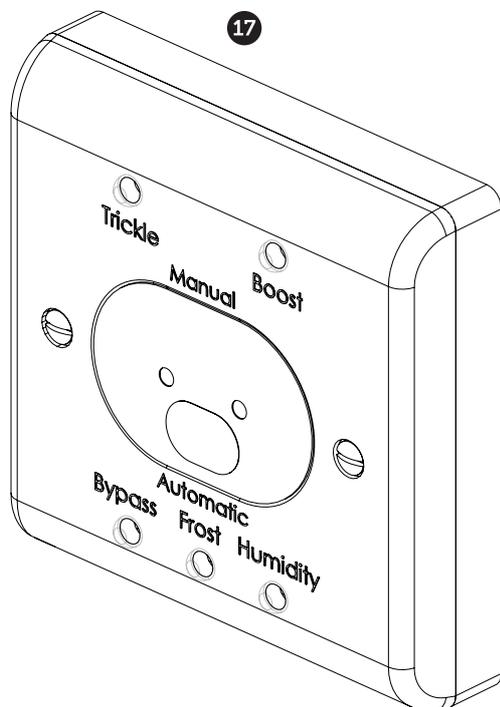
09 Installation

16 External - Fit halo if required



Installation Completed

10 RF Controller (Optional)



To pair an additional RF controller

1. Turn the unit off at the isolation point.
2. Restore power; for 20 seconds from restart the unit will be in pairing mode.
3. Press the remote button once within the 20 seconds and the control will pair to the unit.
4. Successful pairing is indicated by a green light on the control.

Press button once to show current function. Press button again within 3 seconds to move to next function (trickle & boost only).

Other functions are automatic, each function has an indicator light, which operates once selected.

AFTER INSTALLING THIS UNIT PLEASE PASS ONTO END USER
DO NOT THROW AWAY

11 Cleaning & Maintenance

! WARNING

Before carrying out any maintenance on the unit, be sure to isolate the mains power. Any replacement cords and all maintenance work have to be carried out by a competent tradesperson.

Cleaning and maintenance shall not be made by children without supervision and the unit has to be switched off.

Cleaning

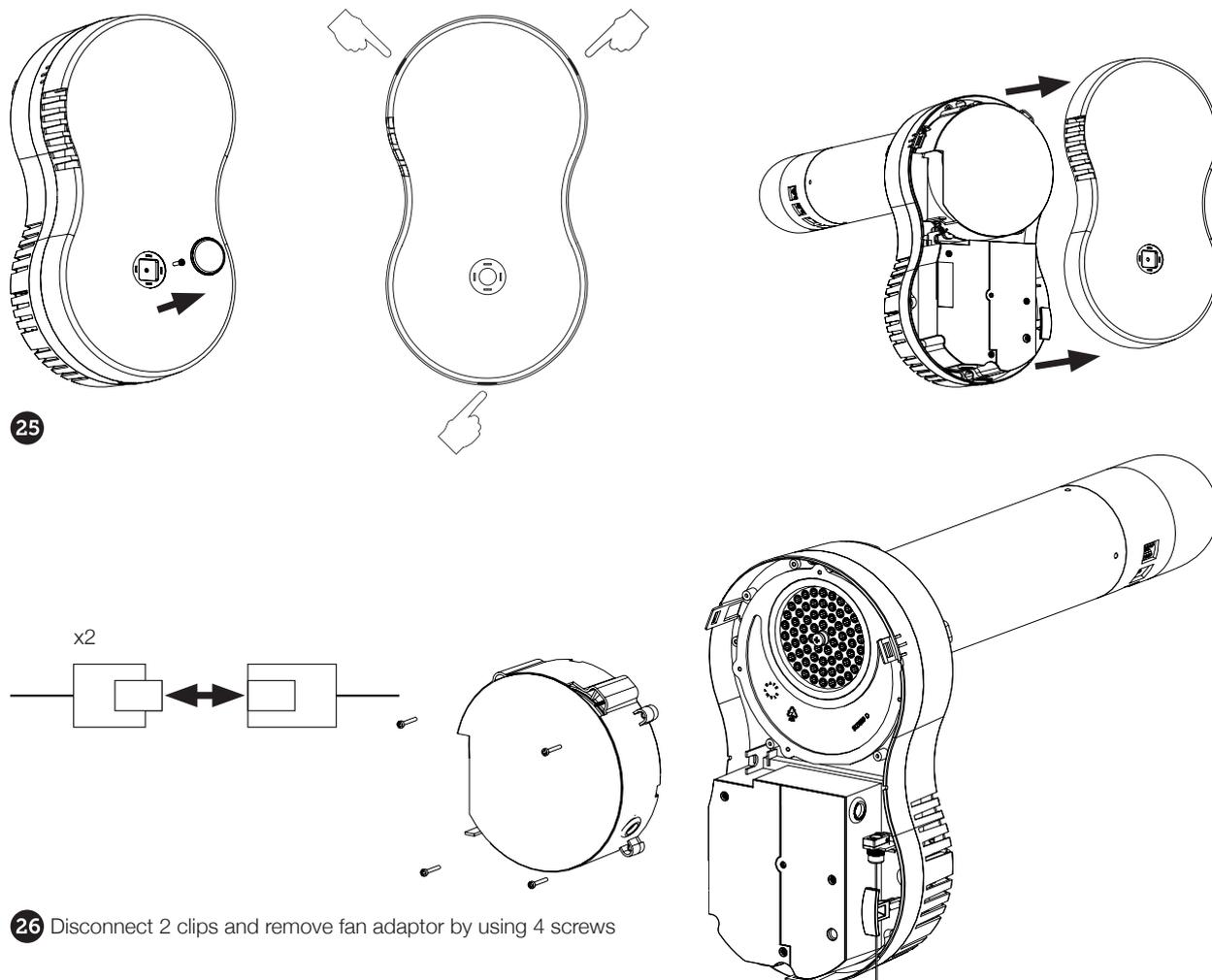
General cleaning of the vents and cells should be every 6 months max, or as required, as environments will vary.

Service Maintenance Intervals

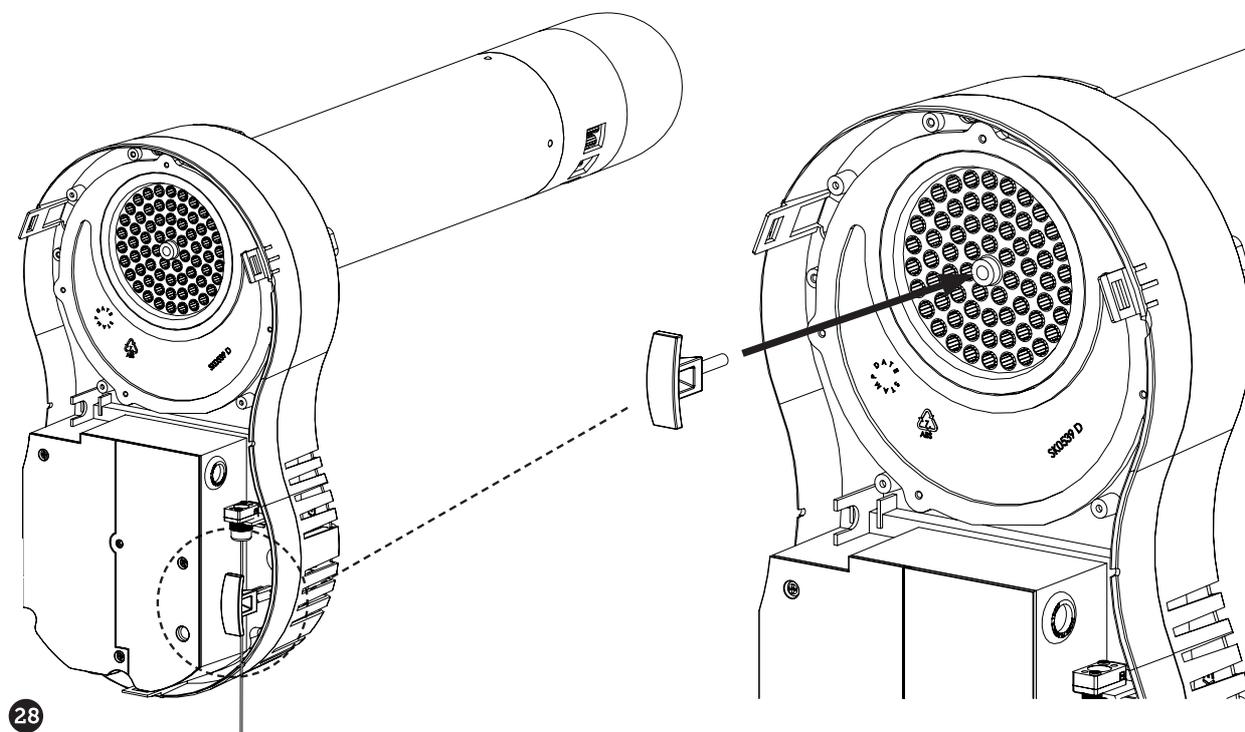
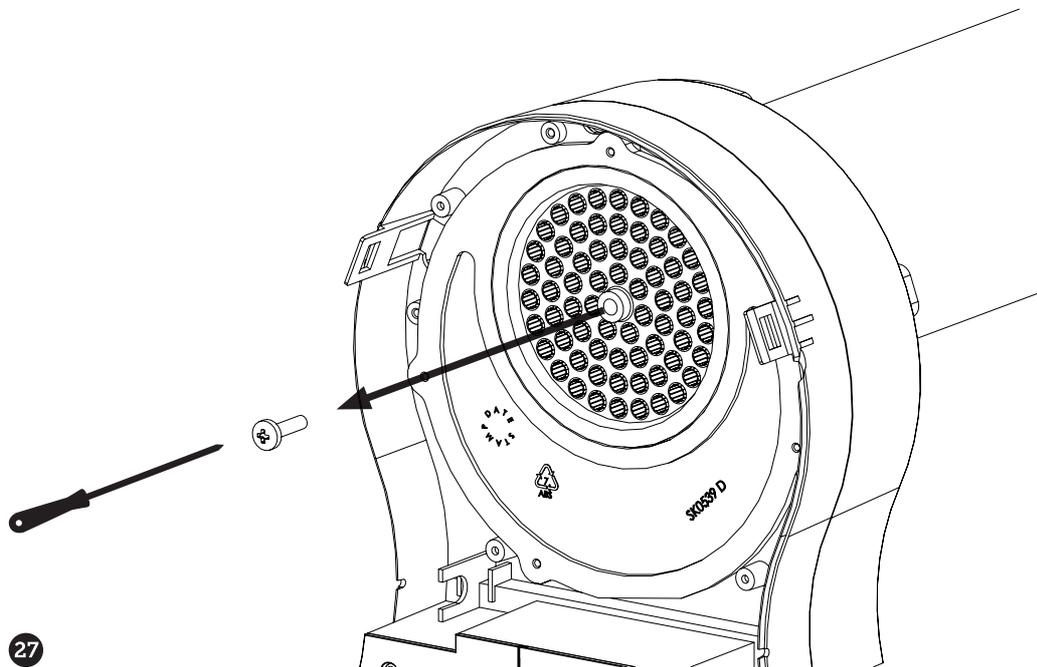
General maintenance should ideally take place every 12 months and should be carried out only by a competent tradesperson adhering to the instructions.

5 Year Service

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

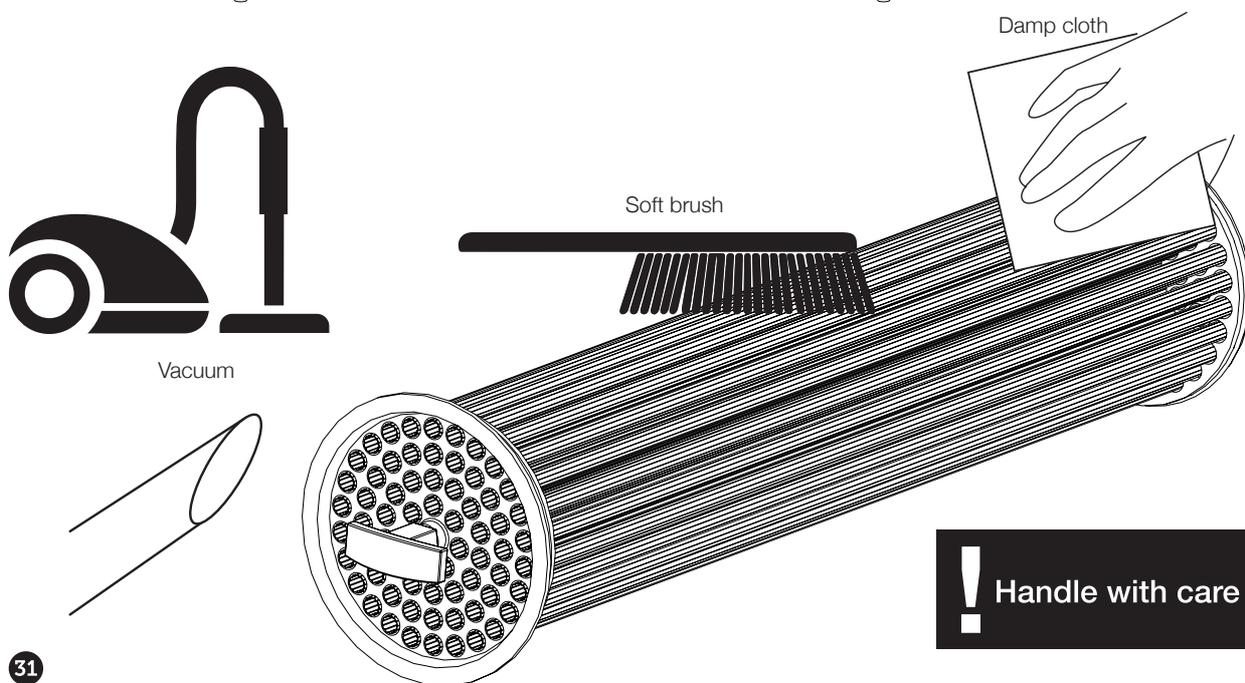
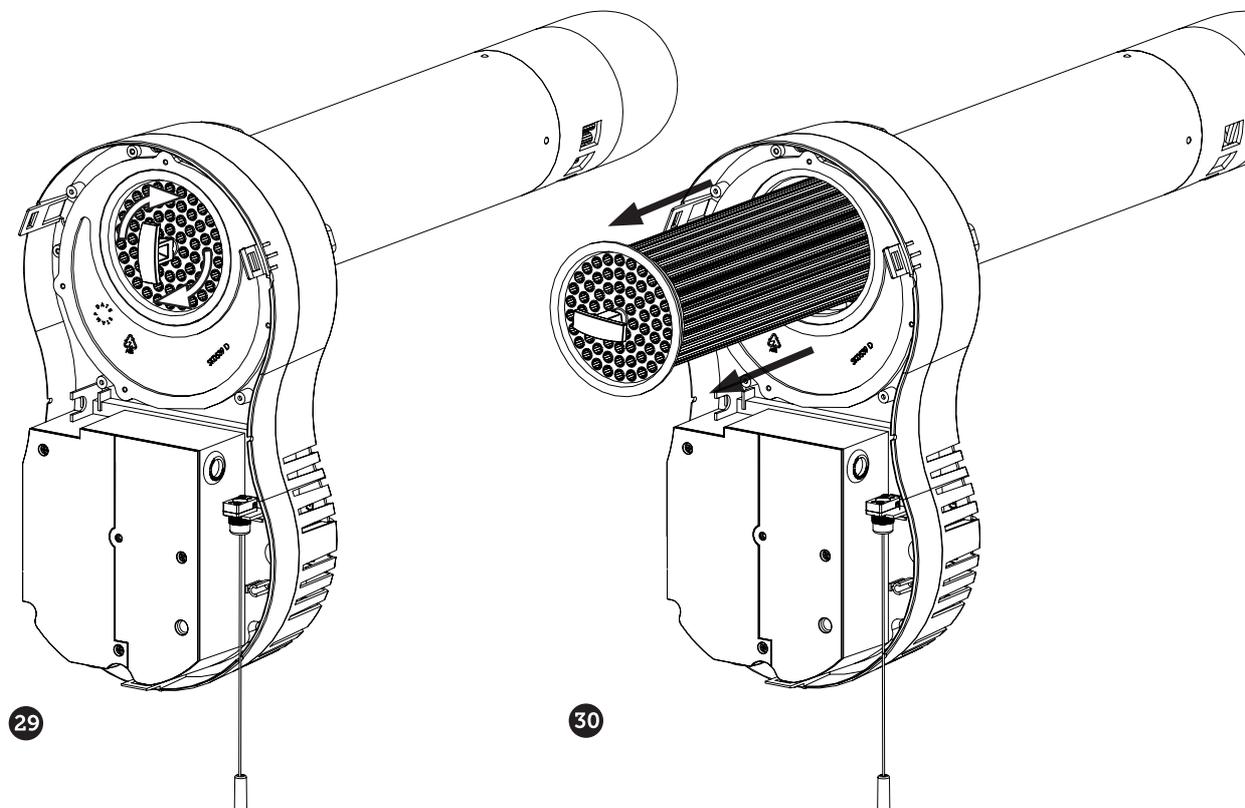


11 Cleaning & Maintenance



AFTER INSTALLING THIS UNIT PLEASE PASS ON TO END USER
DO NOT THROW AWAY

11 Cleaning & Maintenance



12 Guarantee

The EnviroVent heatSava is covered by a full 5 year warranty which will benefit the occupier over many years.

What should I do if I have a problem?

If, after thoroughly reading this booklet, you feel that your heatSava is not working correctly, you can telephone 0345 27 27 810 (operational from 8:00am to 5:30pm Monday to Friday), and ask for technical assistance. You will either be given guidance over the telephone, or an arrangement will be made for an engineer to visit. In any event, please have the following information ready. This will enable your call to be dealt with quickly and efficiently.

Please note that proof of purchase by the way of a receipt is required and that any fans bought from an unapproved source, including but not limited to online auction websites, will render the guarantee invalid.

Serial number of the unit:

12 Warranty

We appreciate you choosing this quality EnviroVent product, which is designed and manufactured to the highest specification in Harrogate, North Yorkshire. We are confident that you will be delighted with the performance of the system and the resulting improvement in air quality in your home after the installation of the unit.

Your warranty covers any defect or break down that arises due to faulty materials or construction.

WARRANTY CONDITIONS AND EXCLUSIONS

- The system must be correctly installed and operated according to the instructions contained in the user guide supplied.
- The warranty will be rendered invalid if the system has been serviced, maintained, repaired, taken apart or tampered with by any person not authorised by EnviroVent Ltd.
- The warranty will be rendered invalid if the unit is turned off. Turning the unit off can damage it.
- The warranty does not cover accidental damage, misuse or abuse.
- The warranty is in addition to your statutory or legal rights.
- The guarantee will only be honoured from approved suppliers.

AFTER INSTALLING THIS UNIT PLEASE PASS ONTO END USER
DO NOT THROW AWAY

envirovent®

EnviroVent Ltd
EnviroVent House
Hornbeam Business Park
Harrogate
HG2 8PA

01423 810 810
info@envirovent.com

www.envirovent.com

E&OE | MKT ENV252-V17-04.01.19
Due to our policy of continuous innovation and improvement EnviroVent reserves the right to alter products specification and appearance without notice.