

ELECTRICAL: ALL ELECTRICAL INSTALLATIONS AND CONNECTIONS MUST COMPLY WITH THE IEE REGULATIONS. CHECK THE VOLTAGE ON THE HEATER IS CORRECT FOR YOUR SUPPLY. IF IN DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

Warning:

This appliance is not intended for use by persons (including children) with reduced physical knowledge, unless they have been given supervision or instruction concerning use of the appliance by persons responsible for their safety. Children should be supervised to ensure that they do not play with the appliance

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



Products with this symbol (crossed out wheellie bin) cannot be disposed as household waste. Old electrical and electronic equipment must be recycled at a facility capable of handling these products and their waste by-products. If you are purchasing replacement equipment your retailer may offer a 'take back' scheme, or will be able to give details of the nearest approved authorised treatment facility. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

WEEE Registered Code : WEE/ED0093VW



Manufactured by:

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As part of the policy of continuous product improvement,
Smith's Environmental Products Ltd reserves the right to alter specification without prior notice.



Versatile, energy efficient heating

ECOVECTOR® Plinth Heater

Models

PH 1300

PH 1600

INSTALLATION & USER GUIDE

Dear Installer,

The following items should be included in the carton:

- Product complete with cable
- Fixing screws (2)
- One pair flexible installation hoses.

In the event of items missing or visible damage please contact us on 01245 324560. We would be most grateful if you would leave this Installation & User Guide and the Guarantee Registration Card with the owner of the property.

Thank you for your co-operation.

Steve Russell
Technical Services Manager

Installation Guide

Plinth Heater – PH1300 & PH1600

Plinth Heater is primarily intended for installation in the space beneath kitchen cupboards behind the plinth. However, it can also be installed in similar applications such as stair risers and other built-in furniture.

This Plinth Heater model must not be installed in a bathroom or other high humidity areas. Please contact us on 01245 324560 for details of products suitable for these applications.

Plinth Heater is designed for use on standard two-pipe pumped central heating systems. Pipes are 15mm and either may be used as flow or return. This product is not suitable for one-pipe systems.

In line with best practice, isolating valves (not supplied) must be fitted to the system flow and return pipes. Failure to fit isolating valves may mean that the product is not serviceable in the event of failure.

Plinth Heater is classified as a fixed appliance and electrical connection should be via a double pole 3A fused spur with a minimum contact gap of 3mm. The fused spur must not be directly above the heater but should be accessible after completion of the installation. If the pre-wired mains cable is damaged, it must be replaced by either the

manufacturer, its service agent or similarly qualified persons. The appliance must be earthed.

To ensure adequate airflow, a minimum clearance of 20mm between the top of the product and any shelving is essential.

To avoid the possibility of vibration, this product must be installed on a flat, even surface.

There must be no rear access to the product after completion of the installation.

To conform with Building Regulations Part L (Part J in Scotland), a remote room thermostat (Smith's Part No. RT002) can be used in conjunction with this Space Saver fan convector.

Isolating valves (not supplied) should be fitted to the flow and return pipes on the heater.

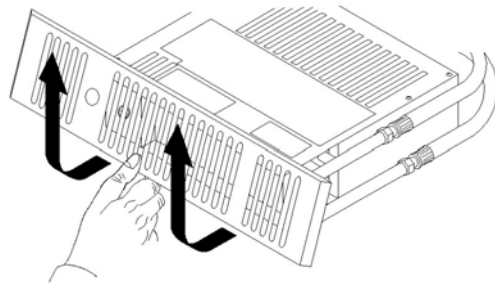
The flexible installation hoses supplied are suitable for use with either 15mm diameter copper pipe or 15mm cross-linked polythene barrier pipe to BS 7291. For all other types of pipes we recommend the use of compression type fittings.

Please note the guarantee may be invalidated if this product is not installed and used in accordance with this guide.

Note:

If required the front grille can be removed to ease installation. To remove the grille tilt the bottom of the grille outwards and lift off grille, to refit carry out reverse procedure.

(The grille can only be removed with the screws holding the grille to the plinth removed)

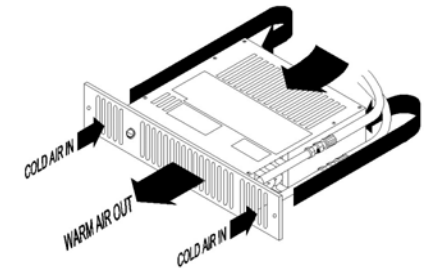


User Information

- ❖ Your product is covered by a **free 5-year parts and labour guarantee**; please complete and return the Guarantee Registration Card to us as soon as possible to ensure that should you require assistance, we can help you quickly and more efficiently.
- ❖ Your Ecovector® Plinth Heater is designed to operate as part of your central heating system in the same way as a panel radiator. Providing the heat output switch is left in either the normal (I) or boost position (II), Heater will switch on and off automatically with your central heating system.

How your Ecovector® Plinth Heater works

Hot water from your central heating system passes through a heat exchanger transferring its heat to the aluminium fins. Cooler air is drawn in by the fan and heated as it passes through the heat exchanger before being discharged gently back into the room. This not only gives a more even temperature spread, but will use around 25% less energy and heat a room up in less than half the time of a traditional panel radiator.



Plinth Heater includes an internal thermostat that prevents the fan from operating until the central heating system water passing through the heat exchanger reaches 35°C. This prevents Plinth Heater circulating cooler air at start up.

Heating

Ensure your central heating is on, set the switch to normal (I). Providing the water temperature in the system is more than 35°C and the thermostat controlling our central heating system is calling for heat, your Plinth Heater will switch on.

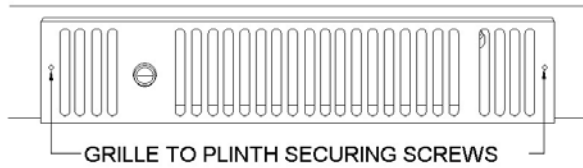
If you require a faster warm up, move the switch to boost (II). Moving the switch to (O) will turn off the Plinth Heater.

Fault Finding

This Space Saver is covered by a **free 5-year parts and labour guarantee**. Please refer to the Fault Finding section on page 5 for advice. In the event of difficulty, please contact us on 01245 324560.

It will be helpful if you do not disconnect the Plinth Heater from the central heating system.

7. Fix heater to plinth.

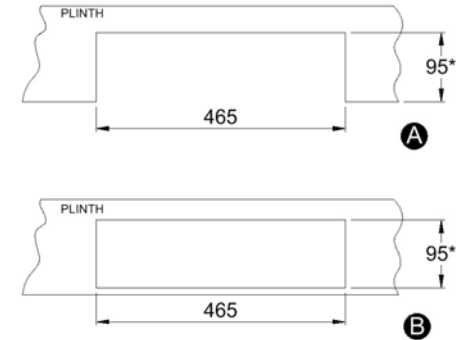


Fault Finding

- | | |
|--|--|
| <p>1. No heat output on settings I and II.</p> | <p>a. Check the power supply is switched ON.</p> <p>b. Check fuse in the fused spur.</p> <p>c. Check the wiring connections at the fused spur.</p> <p>d. If fitted, ensure any room thermostats are calling for heat.</p> <p>e. Balance the central heating system if installed on the same circuit as panel radiators and increase the circulating pump speed if required.</p> <p>f. Increase the boiler water temperature.</p> |
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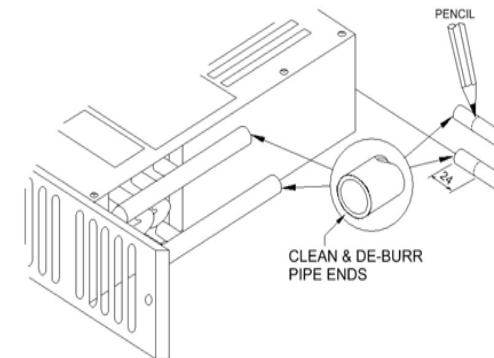
In the event of any difficulty, please contact us on 01245 324560.
It will be more helpful if you do not remove the product from the central heating system.

1. We recommend the use of a kneepad when installing this product. Cut the opening in the plinth to the size shown. Use method A or B. If using method B you will require support underneath the heater.

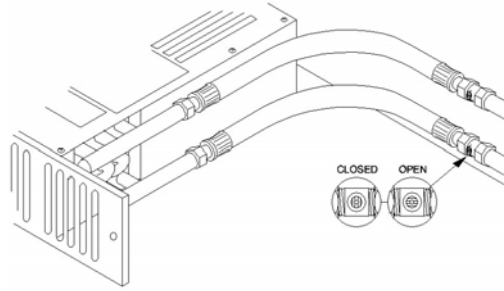


* The overall height of the grille is 100mm. Use care when cutting the opening

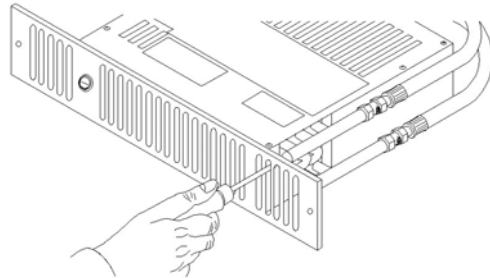
2. Clean and de-burr both the heater and system flow and return pipes. Failure to do so may damage the seal in the flexible hose connection and lead to water leaks. Mark the pipes 24mm from the end.



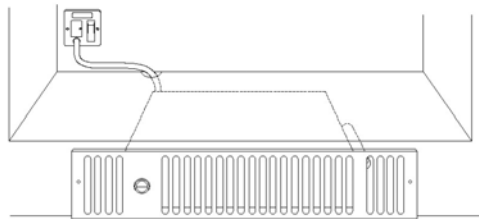
- Fit isolating valves (not supplied) to the system flow return pipes. Failure to fit isolating valves may mean that the product is not serviceable in the event of failure. Connect the flexible hoses between the system pipework and heater. Open the isolating valves and check for leaks.



- Vent air through the bleed screw.



- Isolate electrical supply and connect the heater electric cable to the fused spur (3A). Ensure the fused spur is not directly above the heater and is accessible after installation is complete.



Wiring Details


The wires in the mains cable are coloured in accordance with the following code:

Earth: Green-And-Yellow,

Neutral: Blue,

Live: Brown.

If the colours of the wires in the electrical cable of this heater do not correspond with the coloured markings identifying the terminals in your fused spur proceed as follows:

- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the fused spur which is marked with the letter E, by the Earth symbol , coloured GREEN or coloured GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Commissioning

- Turn on the electrical supply at the fused spur.
- Turn on the central heating system.
- Set any room thermostat/s to maximum.
- Set the heat output switch to I. Within a few moments the fan will run and the heat will flow.
- Balance the central heating system if this heater is installed on the same circuit as panel radiators.
- When the installation is working correctly, remember to reset any room thermostat/s to its normal setting.

- Position heater, making sure the flexible hoses are not kinked and the electrical cable is not snagged.

