

Products with this symbol (crossed out wheeie 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

**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.**



Approved CQS ISO 9001:2008



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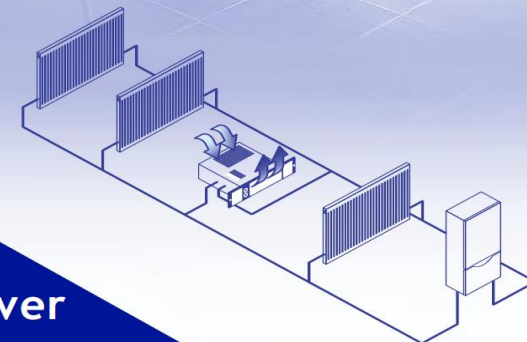
For Ireland, contact MT Agencies (Ireland) Ltd on Tel: 00353 1 844 3212

# SS3, SS5, SS7, SS9

# Space Saver

## Installation and User Guide

### Discover the hidden benefits



## Space Saver

The following items should be included in the carton:

- ❖ Product complete with steel grille and pre-wired mains cable.
- ❖ Fixing screws (2).
- ❖ One pair flexible installation hoses (not included with SS3 model).

Accessory grilles which fit in place of the standard grille are available in different colours and finishes. Please consult the price list for details. In the event of any 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.

Space Saver 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 Space Saver 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.

Space Saver 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.

Space Saver 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. 08-0826) 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.

Dotted lines for notes.

## User Guide

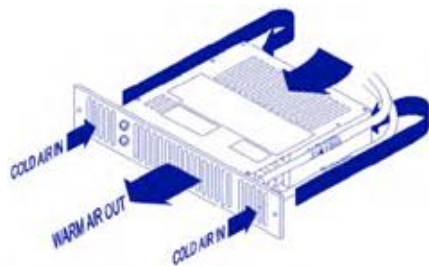
# SS3, SS5, SS7, SS9

### 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 Space Saver fan convector is designed to operate as part of your central heating system in the same way as a panel radiator. Providing the lower heat output switch is left in either the normal (I) or boost position (II) and the upper switch is in the HEATING position your Space Saver will switch on and off automatically with your central heating system.

### How your Space Saver fan convector work

Hot water from your central heating system 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 up a room in less than half the time of a traditional panel radiator.

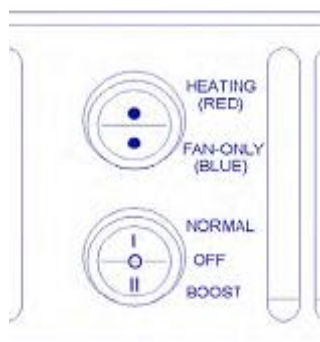


Space Saver includes an internal thermostat that prevents the fan from operating until the central heating system water passing through the heat exchanger reaches 38° C. This prevents the Space Saver circulating cooler air at start up.

### Heating

Ensure your central heating system is on, the lower switch set to normal and the upper switch to heating RED. Providing the water temperature in the system is more than 38° C and the thermostat controlling your central heating system is calling for heat, your Space Saver will switch on.

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



### Air Circulation (Summer Use)

Ensure your central heating system is off. Set the upper switch to BLUE and the lower switch to (I) or (II). Space Saver will run to provide a cooling flow of air. If used in conjunction with a remote room thermostat, ensure the thermostat is set to maximum.

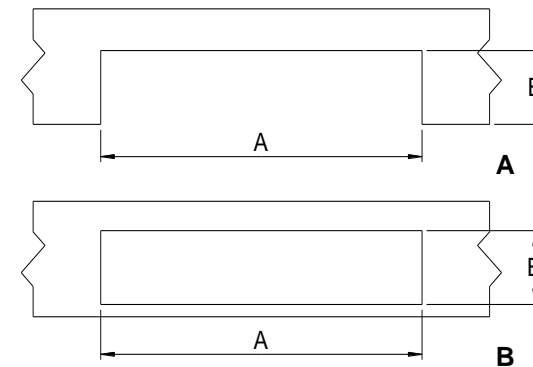
### Fault Finding

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 Space Saver from your central heating system.

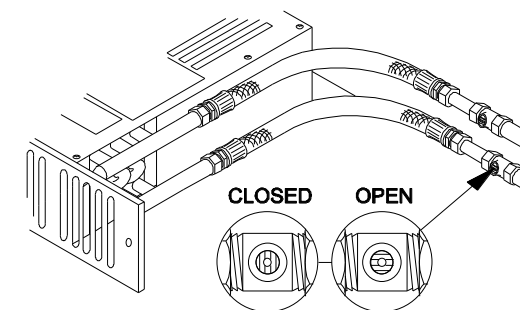
1. We recommend the use of a knee pad when installing this product. Cut the opening in the plinth to the size shown in the table. Use method A or B.

Model	Width A	Height B*
SS3	465mm	96mm
SS5	465mm	96mm
SS7	465mm	96mm
SS9	560mm	96mm

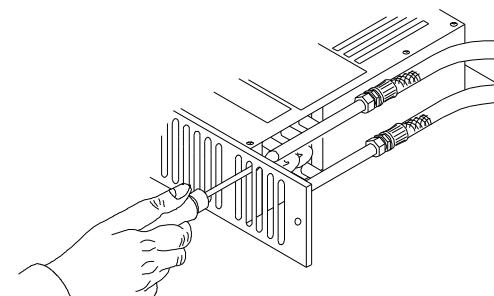
\* The overall height of the grille is 100mm. Use care when cutting the opening.



2. Fit isolating valves (not supplied) to the system flow and return pipes where they will be accessible after the installation is complete. *Failure to fit isolating valves may mean that the product is not serviceable in the event of failure.* Where supplied connect the flexible hoses to the supply pipework flow and return isolating valves using a section of suitable 15mm pipework (either pipe may be used for flow or return) and then to the flow and return pipework on the heater. Open the isolating valves and check for leaks.

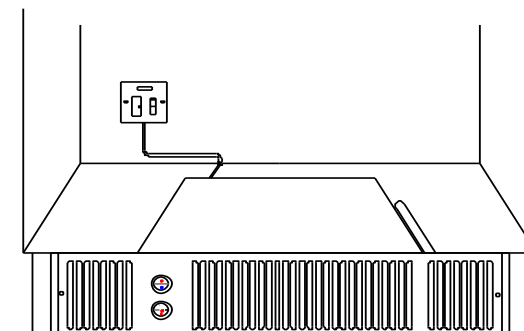


Where hoses are not supplied (SS3) connect the heater to the isolating valves using pipe work suitable for LPHW (Low Pressure Hot water systems) which will allow access to the product once installed.



3. Vent air through bleed valve.

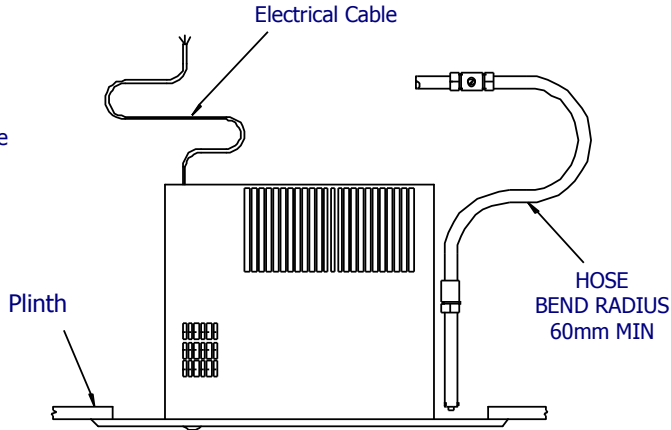
4. Isolate electrical supply and connect the heater electric cable to the fused spur (3A). Ensure the fused spur is not directly above the heater and is accessible after installation is complete.



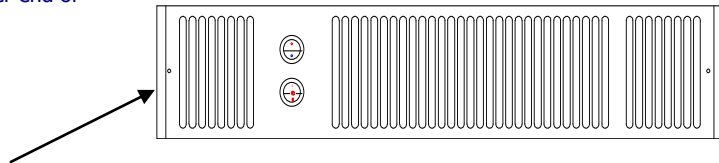
# Commissioning

1. Turn on the electrical supply at the fused spur.
2. Set the upper control switch on the fascia grille to BLUE and the lower switch to either I or II. The fan will run.
3. Turn on the central heating system.
4. Set any room thermostat/s to maximum.
5. Set the lower heat output switch to I and the upper switch to RED – the fan should run and heat will flow within a few minutes.
6. Balance the central heating system if Space Saver is installed on the same circuit as panel radiators.
7. When the installation is working correctly, remember to reset any room thermostat/s to its normal setting

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



6. Fix the heater to plinth using fixing screw holes located at either end of grille.



Grille to plinth securing screws

# Heat Output Performance

It is recommended that the Space Saver model chosen is capable of maintaining the calculated heat loss at normal heat output (I) enabling the boost setting (II) to be used for faster heat up.

Model	Heat Output at 80°C		Heat Output at 70°C		Heat Output at 60°C		Heat Output at 50°C		Heat Output at 40°C	
	Normal KW (BTU)	Boost KW (BTU)	Normal KW (BTU)	Boost KW (BTU)	Normal KW (BTU)	Boost KW (BTU)	Normal KW (BTU)	Boost KW (BTU)	Normal KW (BTU)	Boost KW (BTU)
SS3	1.1 (3800)	1.4 (4800)	0.9 (3100)	1.2 (4100)	0.7 (2400)	1.0 (3400)	0.5 (1700)	0.8 (2700)	0.3 (1000)	0.6 (2000)
SS5	1.3 (4400)	1.7 (5800)	1.1 (3800)	1.4 (4700)	0.9 (3100)	1.1 (3800)	0.7 (2400)	0.9 (3100)	0.5 (1700)	0.7 (2400)
SS7	1.6 (5500)	1.9 (6500)	1.3 (4400)	1.6 (5500)	1.1 (3800)	1.3 (4500)	0.9 (3100)	1.0 (3400)	0.6 (2000)	0.8 (2700)
SS9	2.2 (7500)	2.4 (8200)	1.8 (6300)	2.0 (6900)	1.5 (5200)	1.7 (5700)	1.1 (3900)	1.3 (4300)	0.7 (2500)	0.9 (3000)

## Notes:

Heat outputs tested in accordance with BS 4856 using entering water temperature. Fan-only option operational only when central heating system is switched off.

**Heat output data for all water temperatures between 80°C and 40°C is available on our website [www.smiths-env.com](http://www.smiths-env.com). Refer to the data sheet in the download section.**

# Fault Finding

1. Fan does not run on any switch setting.
  - a). Check the power supply is switched ON.
  - b). Check fuse in fused spur.
  - c). Check the wiring connections at the fused spur.
2. No heat output on settings I and II.
  - a). Check the power supply is switched ON.
  - b). If fitted, ensure any room thermostats are calling for heat.
  - c). Balance the central heating system if installed on same circuit as panel radiators and increase the circulating pump speed if required.
  - d). Increase the boiler water temperature.

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.