

Spacemaker®



Installation, commissioning
and user manual



SST8
Floor Level Fan Convector

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Introduction

This unit is designed for mounting between floor joists (parallel or at right angles), or into a prepared trench in a concrete floor. It must not be used in bathrooms, showers or any other area of high humidity. The floor grille provides air distribution vertically both in and out of the unit. The area above this unit must not be obscured or restricted. This unit must not be located immediately below a socket outlet. It is to be connected to a two pipe pump assisted hot water heating system only.

This unit 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 conform to Building Regulations Part L (part J in Scotland), a remote room thermostat can be used in conjunction with this heater.

Declaration of conformity

EC Declaration of conformity
We, Smith's Environmental Products Limited
1-2 Blackall Industrial Estate
South Woodham Ferrers
Chelmsford
Essex CM3 5UW
Tel: 01245 324900 Fax: 01245 324422

Declare under sole responsibility that the products:

Product Name: **Space Saver**

Product Range: **SS3/MK5, SS5/MK5, SS7/MK5, SS9/MK5, SS5D/MK5, SS5/12V, SS2E/MK5, KHE2, KHCH, SST8 Spacemaker.**

Listed above conforms with the following European Union directives:
Low Voltage Directive (73/23/EEC)
EMC Directive (89/336/EEC)
Pressure Equipment directive 97/23/EC
Machinery (98/37/EC)

Standards Comply With The Above Directives.

Safety Directive Standards:
EN 60335-2-80:2003 + A1:04 in conjunction with EN 60335-1:2002 + A11:04 + A1:04 + A12:06 + A2:06
With U.K deviations.

This Declaration is made on behalf of Smith's Environmental Products Limited.

Symbols

This manual contains information and prescriptions marked by the following symbols.



Ignoring these safety provisions marked by the symbol "caution: hazard" may endanger the safety of people.



Ignoring these safety provisions marked by the symbol "caution: electricity" may endanger the safety of people, as well as the integrity of things.



The removal of the screws can cause the output of hot fluids under high pressure from heating system. Drain the system or close the isolating valves.



High temperature surface. Take utmost care to prevent people from getting in contact with the hot surfaces of the appliance.

Important safety and installation instructions

Prior to installation, read these installation and operating instructions. The installation and operation should also be in accordance with national regulations and accepted codes of good practice.



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.

To guard against injury, basic safety precautions should be observed, including the following:

1. Read and follow all safety instructions and all the important notices on the appliance before installing, using and maintaining the appliance. Failure to do so may cause personal injury or damage to the appliance or installation.
2. Always disconnect electrical supply before putting on or taking off parts and whilst the equipment is being installed, maintained or handled. Never work with bare feet and/or with wet hands.
3. To avoid possible electric shock, special care should be taken since water is used with electrical equipment. Carefully examine the appliance before and after installation. Do not operate the appliance if it has a damaged supply cord or enclosure, or if it is malfunctioning or it is dropped or damaged in any manner. Inspect the appliance periodically.

The appliance should not be electrically supplied if there is water on parts not intended to be wet.



4. Risk of scalding. To avoid injury before any servicing operation wait until the water has cooled inside the appliance. Do not touch the fluid or the appliance when temperature is higher than 60°C.



5. Improper use.
This is an appliance to be used in heating systems with clean water without abrasive particles.

Do not use this appliance:

- With liquids other than water (e.g. flammable liquids, etc.) (EN60335-2-51);
- In locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas) (EN60335-2-51);
- For other than intended use.

6. Installation.

The appliance must be mounted in a stable/fixed position in a dry, well ventilated, frost-free, waterproof and protected place, with sufficient ventilation around it. Make sure that the appliance is securely and correctly installed before operating it and that there is enough room around it for maintenance operations, dismantling, checking for free inspection.

The maximum ambient temperature at which the appliance is to be used is 40°C (EN60335-2-51).



7. Electric connection

IMPORTANT: Connection to the power supply must be effected by means of a fixed power cable which is fitted with a plug-type connection or a two pole isolating switch with a minimum contact opening of 3 mm.

Electrical connection must be carried out by a qualified electrician and in accordance with local regulations and both data on the name-plate and the appropriate diagram inside the terminal box cover.

Follow all safety standards.

8. All electrical work should be carried out in accordance with current IEEE regulations; we recommend the appliance is protected by a Residual Current Device (RCD or Ground-Fault Circuit-Interrupter) with a rated residual operating current not exceeding 30mA.

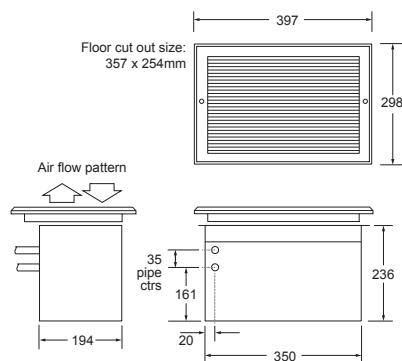
9. Prior to any modification being made to the equipment, it must be agreed with and authorised by the manufacturer. Original spare parts and accessories authorised by the manufacturer are integral part contributing to the safety of the equipment and of the machines. The use of non original components or accessories may endanger the safety and causes the termination of the warranty. Safe operation is only assured for the applications and conditions described in Application of this manual.

Non-observance of the safety instructions results in the loss of any claims to damages.

The indicated limit values are binding and cannot be exceeded for any reason whatsoever.

KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.

Product dimensions



Product performance

Heat output

Heat Output at 80°		Heat Output at 75°		Heat Output at 70°		Heat Output at 65°		Heat Output at 60°	
Low (kW)	High (kW)	Low (kW)	High (kW)	Low (kW)	High (kW)	Low (kW)	High (kW)	Low (kW)	High (kW)
1.6	2.2	1.5	2.1	1.3	1.8	1.2	1.7	1.1	1.5

Heat Output at 55°		Heat Output at 50°		Heat Output at 45°		Heat Output at 40°	
Low (kW)	High (kW)	Low (kW)	High (kW)	Low (kW)	High (kW)	Low (kW)	High (kW)
0.9	1.3	0.8	1.2	0.7	1.0	0.6	0.9

Flow & return connections	Mains cable	Transformer	Fused spur	Total Power Consumption		Water Capacity (Litres)	Sound Levels		Casting colour	Fan-only
				Low (Watts)	High (Watts)		Low (dBA)	High (dBA)		
15mm	1.5m	n/a	3A	20	30	0.27	32	39	Anodised aluminium	n/a

Heat outputs tested in accordance with BS4856 using entering water temperature and 340 l/h (75gph) flow rate.
Sound levels measured at 1.5m.

Preparation

Remove the two screws securing the grille frame to the chassis unit and lift off.

The inner grille core can be lifted out from the surrounding frame.

The opening required to accommodate this unit is 357mm x 254mm x 236mm deep from the finished floor level.

Select the desired installation location and prepare accordingly.

Place the unit into the opening and rest it on the three top flanges.

Lower the unit into the opening and screw fix the three side flanges to the floor through the vacant screw holes.

Ensure the side with the pipe tails has an access gap sufficient to connect the heating pipes.

Pipe Work

Connect the heating system flow and return pipes to the appliance 15mm copper connections.

Fill the system and check the joints are leak free.

Vent air that may be in the appliance heat exchanger via the air vent valve situated on the top pipe connection, inside the unit.

Do not over tighten the air vent valve.

Electrical Connections

Isolate electrical supply and connect the heater cable to the fused spur (3A).

Ensure the fused spur is not directly above the heater and is accessible after installation is complete.

Unit Operation

This appliance is equipped with a low temperature cut out thermostat which requires the water temperature to be approx. 38°C before the fan will energise.

If the fan does not energise when the heating system is running, check (i) water temperature (ii) water flow and (iii) the unit is fully vented of air.

Air may accumulate after the initial fill and therefore should be vented a second time.

If water flow (ii) is poor, the system will require balancing to ensure an even distribution of hot water around the whole system.

The rocker switch provides Max. /Off/Min. fan speeds.

Spares

In the event spares become necessary, please quote the model type, and the descriptions and part numbers below.

Fan Motor - S10129	Outboard Bearing - S10010
Impellor - S10011	Grille Assembly - 14-0004
Heat Exchanger - 02-0255R	Rocker Switch - 08-0500
Low Temperature Cut Out - 08-0799	

Registering your product

Thank you for purchasing a Smith’s product. It has been designed and manufactured to the highest quality standards to ensure it gives you efficient and trouble-free service for many years. We are committed to achieving the highest standards and our faith is supported by a free parts and labour guarantee with every product.

For more information on the warranty period for this product please visit our website smithsep.co.uk/product-registration/

This gives you the peace of mind that in the unlikely event of product failure, we will repair or replace the product completely free of charge providing the product has been installed, used and maintained in accordance with the instructions. Your statutory rights are not affected by this warranty.

It is important to register as soon as possible online at: smithsep.co.uk/product-registration/. This will ensure you will receive prompt and efficient service if your product requires attention within the warranty period. If you do not register your product, you will be required to produce proof of purchase prior to receiving service.

For more details please visit our website: SmithsEP.co.uk

SCAN HERE TO REGISTER
YOUR PRODUCT

Disposal

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

Products with this symbol (crossed out wheelee 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/ED0093VV



After sales

If you experience any problems with the use of your product, please contact our after-sales office +44 (0) 1245 324560.

For product information, customer services or sales support call us on +44 (0) 1245 324900

For the Republic of Ireland, contact MT Agencies on 01 864 3363

Sales: sales@SmithsEP.co.uk
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Happy to help

Smith's Environmental Products Ltd is one of the leading manufacturers of heating and cooling products in the UK. We are committed to achieving the highest standards and our faith is supported by a free parts and labour guarantee with every product (see our website for more information). Our customer service is second to none and we are happy to offer any help and guidance that you might need.

Stockists

All products are available nationally from Builders' Merchants, Plumbers' Merchants, Heating Equipment Distributors and Kitchen Equipment Distributors. In the event of difficulty, please contact us or visit our website SmithsEP.co.uk for details of your nearest stockist.

Information and advice

Full technical specifications and list prices is available to download from our website or in hard copy from our office. Also available on our website are price lists, individual product data sheets, installation & user guides, where to buy, who to contact and a media centre.

Alternatively contact our office 9.00am to 5.00pm Monday to Friday.

As part our commitment to continuous improvement Smith's Environmental Products may change the specifications of its products without prior notification or public announcement. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract. All dimensions are in mm unless otherwise stated. Please visit the website for the most up to date information.

**To view the full product information
download the datasheet at:
www.SmithsEP.co.uk**

For product information, customer services or sales support call us on **+44 (0) 1245 324900**

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