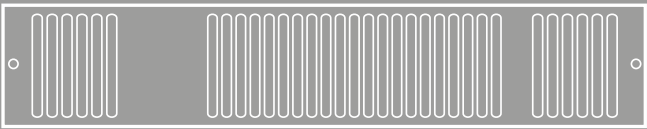


Space Saver

Installation and user manual



SS80E

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Introduction

The following items are included in the carton:

- Product complete with stainless steel grille and plug and play lead.
- Fixing screws (2).
- Wall controller.

In the event of any items missing or visible damage, please contact us on:
+44 (0) 1245 324560.

Please leave this Installation and User Manual with the owner of the property.

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:
Kitchen Plinth Fan Heater Model SS80E

Product range:
SS80E SWSS80E

Conform to the following European Union directives:
Low Voltage Directive 2014/35/EU
Safety of household electrical appliances: EN 60335-2-30:2009, +A11:12
EN 60335-1:2012/AC:14+A11:14
EN 62233:2008

Electromagnetic compatibility (EMC)
EN 55014-1:2006 inc. A1:2009 & A2:2011
EN61000-3-2:2006 inc A1/A2:2009
EN61000-3-2:2014
EN61000-3-3:2013

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

Gary Haynes
Managing Director


Date: 26.07.16

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 the equipment.



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. 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.



4. Improper use.

Do not use this appliance:

- 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.



5. 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).

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.



6. Electrical 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.

Under no circumstances must the terminal block, intended to link to a room thermostat (see page 6), be used to connect the heater to the supply mains.

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.

7. Connect the appliance only to a mains supply protected by a Residual Current Device (RCD or Ground-Fault Circuit-Interrupter) with a rated residual operating current not exceeding 30mA.

8. 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.

Application

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

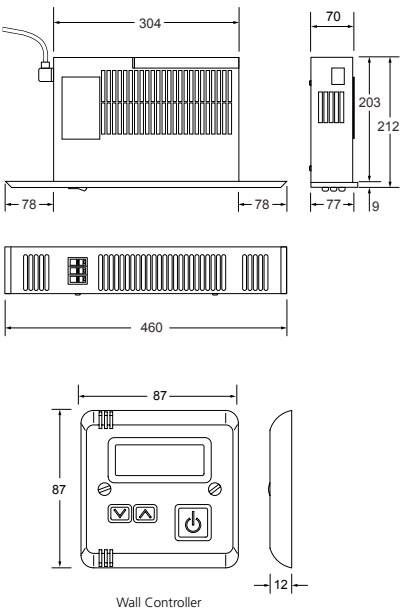
This Space Saver model must NOT be installed in a bathroom or other areas of high humidity. Please contact us on +44 (0) 1245 324560 for details of products suitable for these applications.

Product Complies with LOT20

Space Saver is fitted with an overheat protection. The heater will automatically stop in the event of the heating elements reaching the cut-out temperature.

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

Product dimensions



Product performance

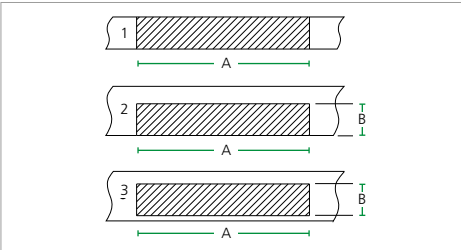
Heat output

Heat Output (kW)	Power Consumption (kW)	Fused spur	Mains Cable (m)
0.6kW/1.2kW	0.6kW/1.2kW	10A	2.0

Installation

1. Cut the opening in the plinth

- To ensure adequate airflow, a minimum clearance of 10mm 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.



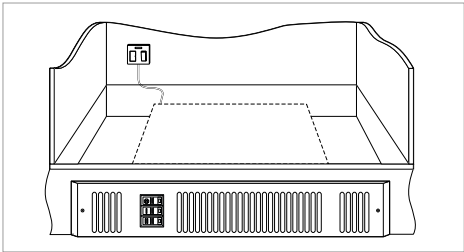
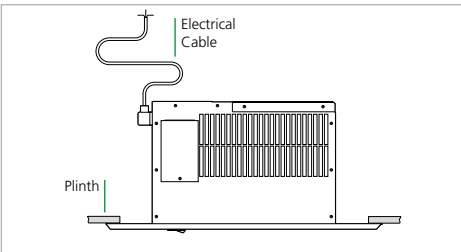
- We recommend the use of a knee pad when installing this product.
- Cut the opening in the plinth to the size shown in the table. Use method 1, 2 or 3 (method 1 represents installation into an 80mm plinth).

Model	Width A (mm)	Height B (mm)
SS80E	400	74

Use care when cutting the opening.

2. Electrical connection

- Isolate the electrical supply and connect the heater electric cable to the 10A fused spur.
- The fused spur must not be directly above the heater, but should be accessible after completion of the installation



3. Choosing a position in a room for the wall controller

The SLVT controller should be fixed to the wall. Avoid areas with draft or direct sun. Do not position the controller above or close to the heaters or other heat sources. Damp areas or areas where SLVT can be mechanically damaged should also be avoided. Avoid installing the controller in areas where there are metal objects between the heater and the controller. This will reduce the RF range. The RF range in ideal conditions can be up to 50m however this can be reduced when the signal is passing through the walls or other objects. The range can be also affected where the controller is mounted close to power cables, motors or equipment producing strong electromagnetic field. If the temperature control feature is used it is necessary to use one controller for each room or zone.

4. Installation - wall controller

The controller is designed to fit onto most single gang back boxes. When a metal box is used this must be earthed. The controller can be powered by either mains 240VAC 50Hz or 12VDC. The power consumption is less than 1W. Do not connect mains voltage to 12V terminals, this will damage the controller. The maximum size wire that can be used is 1mm², this can be twin and earth or standard flex. Do not over-tighten the connector screws. Take care not to damage the components when connecting the cables.

5. Electrical Connection - wall controller

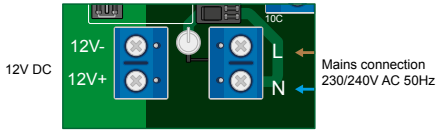
For the mains power, connect L and N wires to the connectors marked as L and N.

Electrical installation should be carried out by a competent installer, preferably registered with

NICEIC (National Inspection Council for Electrical Installation Contracting) in accordance with the 17 edition of the IEE Wiring Regulations, (BS.7671), and any relevant Local Authority Bye-Laws.

This heater is fitted with a 3-core mains supply cable and should be permanently connected to the electricity supply via a double pole switch having 3mm gap on each pole. A switched Fused Connection unit to BS.1363. Part 4 is a recommended mains supply connection accessory to ensure compliance with safety requirements applicable to fixed-wiring installation.

Electrical Connection - wall controller

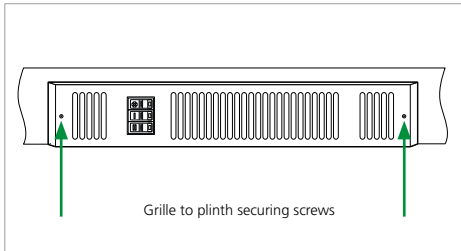


6. Position heater

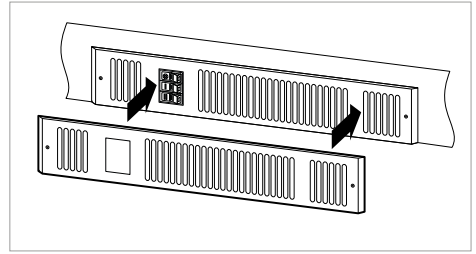
- Position the heater, making sure the electrical cable is not snagged.

7. Fix to plinth

- Fix heater to plinth



8. Overlay grille (optional)



- If required fit the overlay grille
- Remove the screws holding the fixed grille to the plinth
- Place the overlay grille over the fixed grille and refit the screws

9. Pairing controller with heaters

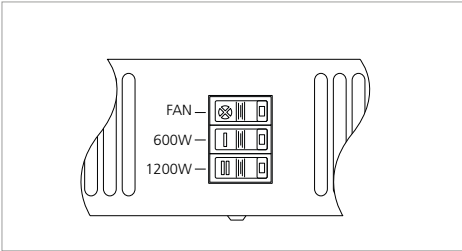
In order to pair your heater with the controller you must:

- The controller must be in OFF position (the light segments off or red)
- Turn power to the heater ON
- Within 20 seconds hold the ON button on the controller until the orange segments light up in a sequence
- After the pairing is finished, the light segments will change to green
- If the pairing was successful the heater should turn on. It can take up to 4 seconds
- Press the button to exit pairing and return to previous controller status

Operation

- 1. Before switching the heater on, please ensure the fascia grille is free from obstruction.
- 2. Ensure your fused spur is switched ON.
- 3. Set the thermostat (if fitted) to maximum.
- 4. Set the upper fan switch and the middle switch 600W to the ON position.
- 5. If you require a higher heat setting then set the bottom 1200W switch to the ON position.
- 6. Set the thermostat to the required setting.

For your safety this Space Saver heater is fitted with an automatic overheat protection. If the heater stops, turn off the power at the fused spur, wait 5 minutes and switch the power back on.



Fault finding

In the event of any difficulty, please contact us on +44 (0) 1245 324560.

Fault	Checking/Solution
Fan does not run/no heat output	<p>Check the power supply is switched ON</p> <p>Check fuse in fused spur</p> <p>Check the fan is switched on</p> <p>Check the thermostat and controller is calling for heat</p> <p>Check the thermostat and controller is paired to the heater</p> <p>Check the controller is paired with the heater and calling for heat</p>
If the overheat protection has activated, manual reset as follows:	<p>1. Switch the power supply OFF at the fused spur</p> <p>2. Wait 5 minutes for the overheat cut-out switch to reset</p> <p>3. Switch the power supply on</p>

Wireless Controller Self Diagnostic

The controller is equipped with a self diagnostic software that will check functionality of all main components. If there is a fault with any part of the controller or controller is operating outside of the temperature limits, the 4 indicators will flash red. If this happens, controller will not function in order to protect itself and the heaters.

Changing temperature or timer settings after installation

The temperature and/or timer settings can be changed after installation. It is important to switch the power off to the controller before the changes are made. After the changes are made and the power is restored the new settings will take effect.

External Input

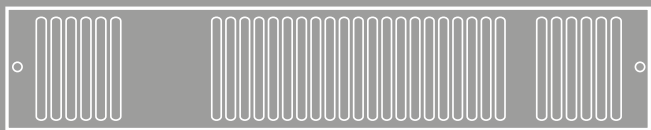
The controller can be switched off using any external device with voltage free contacts. For example, timers or a building management system.

If this function isn't used, a wire link across the external input connectors must be used.

When the external input connection is open, the indicators will light up red and the heating will be disabled. However, setback mode will still operate at low temperature.

Space Saver

User manual



SS80E

Important safety and installation instructions

Please read this user manual before operating this appliance. The 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. 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.



4. Improper use.

Do not use this appliance:

- 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.

5. 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).



Warnings (SLVT Wireless Controller)

- Do NOT handle the appliance with wet hands.
- Do NOT use the appliance in workshops or rooms where excessive dust is generated or present.
- Ensure that nothing is pushed into any aperture of this controller.
- Do NOT cover or restrict any aperture Do NOT use the appliance if damaged.
- Do NOT leave the appliance unattended where young children are present.
- If used in a bathroom, the heater is to be installed so that it cannot be touched by a person in the bath or shower.
- Operating temperature range -10 to +40°C.

How it works

Cooler air is drawn in by the fan and heated as it passes through the heating element before being discharged gently back into the room. This not only gives a more even temperature spread, but will heat up a room quicker than a traditional panel radiator.

The wireless wall mounted controller has 2 operating modes. It has to be set to the required mode prior to the installation by using the switches located at the back of the controller. These modes are:

- Temperature control
- Temperature and timer control

There are 4 light indicators located around the button showing the status of the controller.

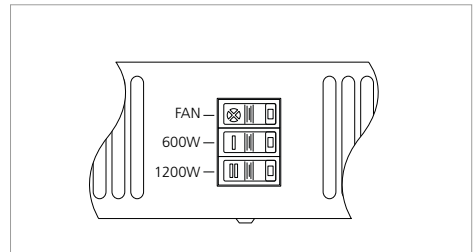
How to operate

1. Before switching the heater on, please ensure the fascia grille is free from obstruction.
2. Ensure your fused spur is switched ON.
3. Set the thermostat (if fitted) to maximum.
4. Set the upper fan switch and the middle switch 600W to the ON position.
5. If you require a higher heat setting then set the bottom 1200W switch to the ON position.
6. Set the thermostat to the required setting.

For your safety this Space Saver heater is fitted with an automatic overheat protection. If the heater stops, turn off the power at the fused spur, wait 5 minutes and switch the power back on.

Air Circulation (Summer use)

Set the thermostat to maximum set the fan switch to ON ensure the 1kW and 2kW switches are set to OFF. Space Saver will provide a cooling flow of air.

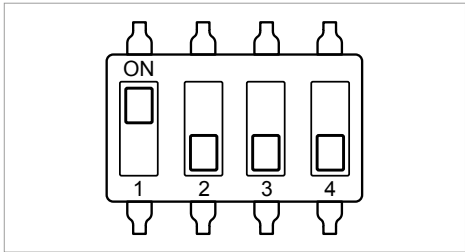


Wall Controller Operation

Temperature Control Mode

Temperature control for Comfort period

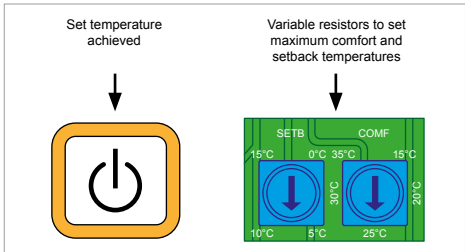
Switch 1 controls the display screen. If it is set to 'ON' the temperature is displayed as Fahrenheit. If it is set to 'OFF' the temperature is displayed as Celsius.



Prior to installation the maximum comfort temperature must be set by using the knob marked COMF located at the back of the controller as shown below. The range is 15°C to 35°C. The maximum comfort temperature limits the room temperature that can be set by users after installation. The required room temperature can be reduced by users by using the two adjustment buttons on the front of the controller after installation. These buttons allow the user to change the set room temperature up or down subject to not exceeding the maximum temperature set prior to installation.

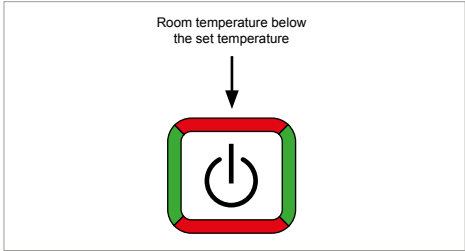
After pressing the on button the heating will operate until the set room temperature is achieved, at this point the indicator lights around the on button will change from green to orange. When the room temperature drops the heating will become active again and the indicator lights will change back to green.

The display screen will show the actual room temperature, except briefly when either of the two adjustment buttons are pressed, the new target room temperature is then temporarily displayed.



Temperature control for Setback period, For this mode, the switches are set as shown below.

In this mode, the controller will set heating active when the room temperature drops below the set temperature. This feature can be used for frost protection or in situations where a minimum room temperature must be maintained. The setback temperature can be set using the knob marked SETB mounted on the back of the unit as shown above. This can be set from 0°C - 15°C.

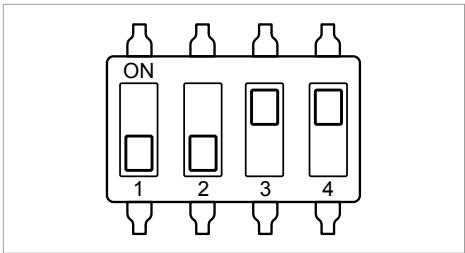


Heating is active.

Temperature control for comfort and setback periods can be used individually or together. This can also be used in conjunction with the timer mode options.

Temperature and Timer Mode

For timer mode, the switches are set as shown below.



In timer mode, switch 3 or 4 must be in the 'ON' position. This mode allows for 3 different settings which will alter the time period for each segment.

Switch 3 - Each time period represents 5 minutes

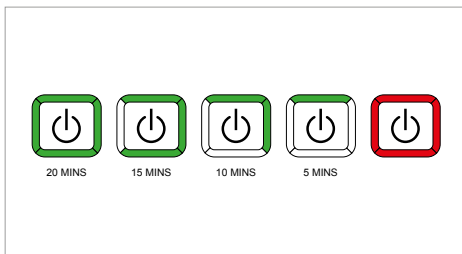
Switch 4 - Each time period represents 15 minutes

Switch 3 & 4 - Each time period represents 30 minutes

Controller functionality in timer mode:

In timer mode, the controller acts as a 4 stage run-back timer. When the controller is in stand-by mode and button is pressed, the first indicator segment will light up green and heating is activated. When pressed again the second segment will light up and so on. Each segment is representing a time period that is selected when setting the switches.

In the example below, the only switch in the 'ON' position would be number 3. The button would be pressed four times to activate four 15-minute segments resulting in the heater staying on for 1 hour. At the end of the last time period, the light indicators will be red for 4 seconds and then go off. The controller is now in stand-by mode.



If the timer mode is not selected, then the user will need to press the ON button again to deactivate the heating.

Fault finding

This Space Saver is covered by a free 5-year parts and labour guarantee.
Please refer to the Fault finding table below for advice.
In the event of difficulty, please contact us on +44 (0) 1245 324560.

Fault	Checking/Solution
Fan does not run/no heat output	<div>Check the power supply is switched ON</div> <div>Check fuse in fused spur</div> <div>Check the fan is switched on</div> <div>Check the thermostat and controller is calling for heat</div> <div>Check the thermostat and controller is paired to the heater</div> <div>Check the controller is paired with the heater and calling for heat</div>
If the overheat protection has activated, manual reset as follows:	<div>1. Switch the power supply OFF at the fused spur</div> <div>2. Wait 5 minutes for the overheat cut-out switch to reset</div> <div>3. Switch the power supply on</div>

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. To back up our commitment, included with your product is the following warranty:

5 years from date of purchase

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

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 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



Approved CQS ISO
9001:2008

After sales and spares

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

General information: info@SmithsEP.co.uk

Smith's Environmental Products Ltd
Blackall Industrial Estate, South Woodham Ferrers,
Chelmsford, Essex CM3 5UW

SmithsEP.co.uk

[@SmithsEP_UK](https://twitter.com/SmithsEP_UK)

[#ThinkSmiths](https://www.facebook.com/ThinkSmiths)



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 five year parts and labour guarantee with every product. 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.

**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**

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

**Sales: sales@SmithsEP.co.uk
General information: info@SmithsEP.co.uk**

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