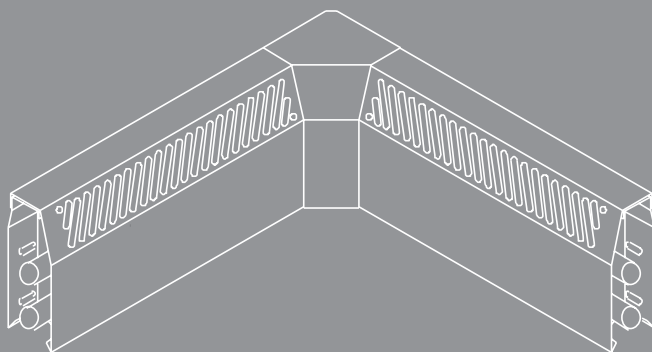


# Sureline



Installation, commissioning  
and user manual



Perimeter Heating

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# Important

To prevent transit damage Sureline has been assembled. To prepare the components for installation, first slide the casing carefully off the back plate then slide the element off the back plate.

**WARNING - THIS ELEMENT MAY CONTAIN SHARP EDGES AND SHOULD BE HANDLED WITH CARE TO PREVENT INJURY AND DAMAGE TO ELEMENT FINS.**

Where small children may have access to the underside of the completed installation we recommend fitment of the Child Safety Guard. Contact us on 01245 324900 for further information.

# Introduction

Sureline is designed to fit directly against perimeter walls to provide a consistent flow of warm air around the room. Sureline is supplied complete with wall fixing back plate, heating element, front cover and joining strip. Internal and external angles, valve cover boxes and child safety grilles in 0.5Mtr and 1.0Mtr lengths are available as accessories. Element only and casing only are also available to order.

# 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:

**Sureline**

Product:

**Sureline – Perimeter Heating**

Conform to the following directives and harmonised standards:

**EN 442-2-2014**

**EN 442-1-2014 Clause 5.3**

**Construction Products Regulation No. 3052011**

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.

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

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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.

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

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# 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.

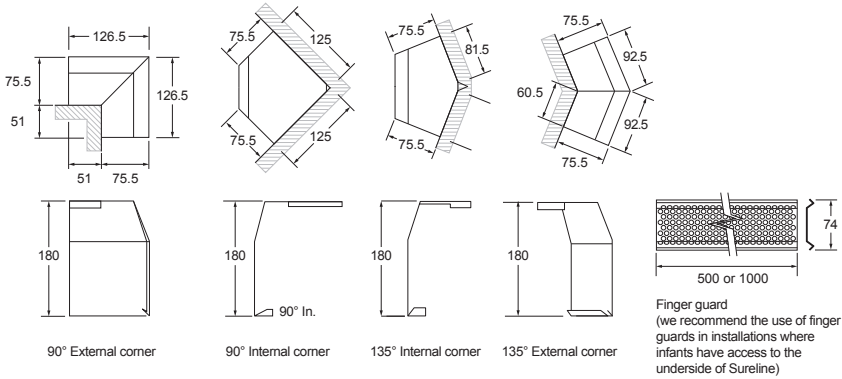
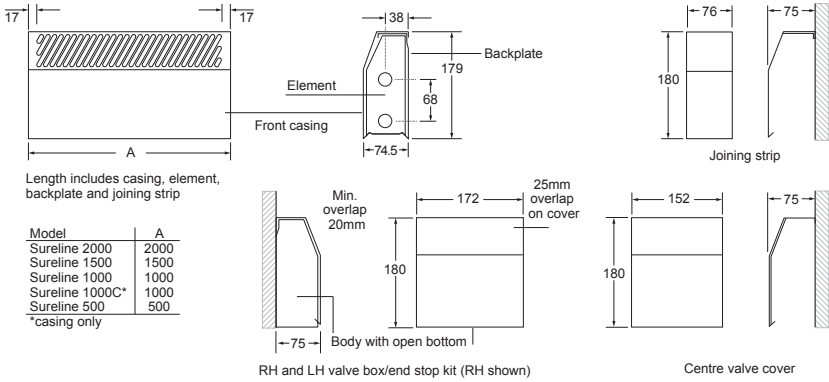
8. All electrical work should be carried out in accordance with current IEEE regulations; we recommend the appliance is protected by a Residual Current Device (RCD or Ground-Fault Circuit-Interrupter) with a rated residual operating current not exceeding 30mA.
9. Prior to any modification being made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

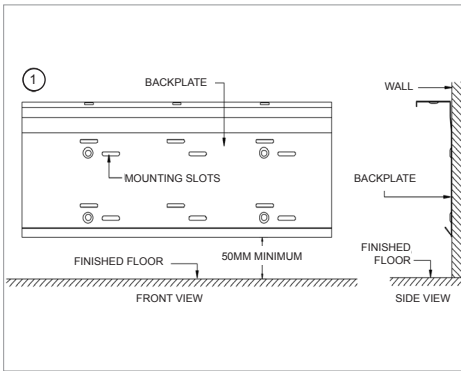
	Flow Rate L/h (G/h)	Btu/h/m @ average water temperature						W/m @ average water temperature					
		50°C	55°C	60°C	65°C	70°C	75°C	50°C	55°C	60°C	65°C	70°C	75°C
 Two supplies - Parallel	920 (200)	1310	1570	1820	2070	2300	2560	380	460	530	610	670	750
 Bottom supply - Top return	920 (200)	1030	1250	1460	1710	1920	2140	300	370	430	500	560	630

# Preparation

Ensure the walls are flat, sound and capable of safely supporting the product. A minimum AIR GAP of 50mm is required between the underside of the back plate and the finished floor surface at all times. Failure to comply with this requirement will significantly reduce the heat output.

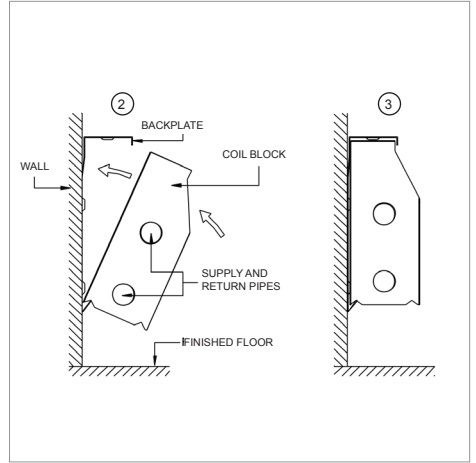
## Back Plate

Fix the back plate to the wall ensuring it is level. Repeat for each length of back plate. Always allow a 150mm gap from the return walls to fix the internal or external corners. When using a centre valve cover allow a 125mm gap between each section of back plate.



# Heating Element

Locate the lower rear of the element into the lower anchor lug on the bottom of the back plate and carefully pivot the element towards the back plate. Carefully snap the element into the upper anchor lug on the top of the back plate. The element is now ready for connecting to the flow and return pipe work.



## Pipe Work

The element is fitted with 22mm flow and return copper pipes. It is also acceptable to use both pipes as flow connections and provide a separate return run remotely from the casing. An expansion joint must be provided on any straight continuous runs longer than eight metres.

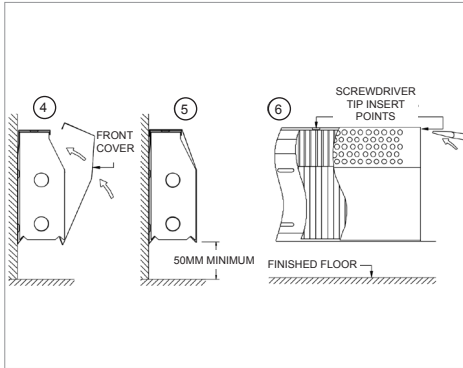
## Commissioning

Check for any leaks and ensure adequate flow is providing the required water temperature for maximum output. It may be necessary to balance the system to achieve the best flow or water temperature.

# Front Casing

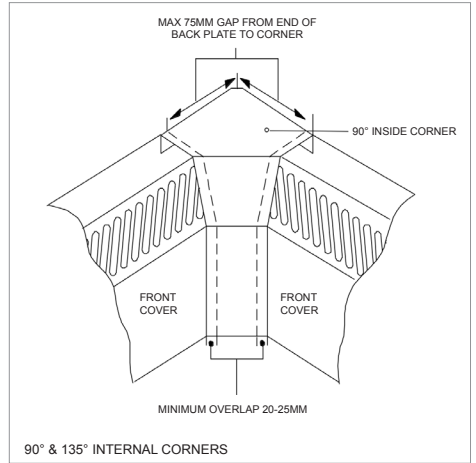
Locate the lower locating lug of the front casing under the front lower anchor lug of the element. Pivot the casing carefully upwards towards the rear of the top of the back plate and snap into position. Repeat the above procedure when fitting the joining strips; valve boxes/end cap kits and internal or external corners where applicable.

To remove the front casing, carefully ease a flat bladed screwdriver between the top of the front cover and the element. Gently lever the top of the case out of the back plate and reverse the fixing procedure.



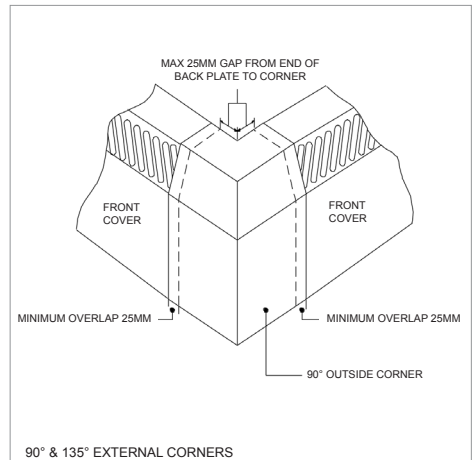
## 90° & 135° Internal Corners

The internal corners are a single piece with tabs at the top and tab clips at the bottom. To install, please ensure that the back plate is fixed to the two opposing wall surfaces with a maximum gap in from the corner of no more than 75mm. Place the bottom tab clip under the adjacent covers. Then angle the inside corner up so that the top tabs snap in between the wall and the covers of the tops of the adjacent covers. Once installation is complete, the inside corner should fit snugly and the seam formed by the corner and the covers should be smooth and uninterrupted.



## 90° & 135° External Corners

The external corners are a single piece with tabs at the top and a tab clip at the bottom. To install please ensure that the back plate is fixed to the two opposing wall surfaces with a maximum gap from the corner of no more than 75mm. Place the bottom tab clip under the adjacent covers. Then angle the outside corner up so that the top tabs snap in between the wall and the covers of the tops of the adjacent covers. Once installation is complete, the outside corner should fit snugly and the seam formed by the corner and the covers should be smooth and uninterrupted.



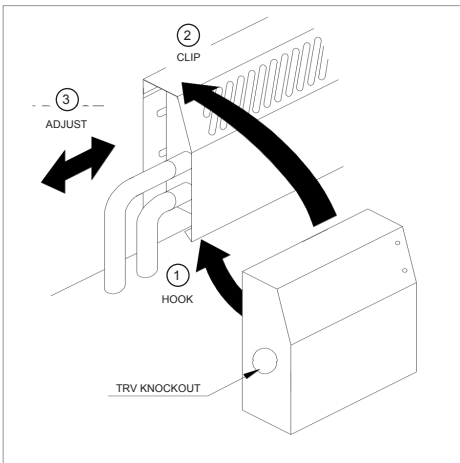
## Room Temperature Control

The Sureline valve box / end cap kits incorporate a facility to accept a 22mm Thermostatic Radiator Valve. Simply remove the knock out plate and the tail of the TRV body can be connected to the pipe work by means of a 22mm x 3/4" female BSP adaptor. Care must be taken not to distort the 22mm pipe and to ensure the flow direction and valve location conforms to the recommendations of the TRV manufacturer.

Sureline can also be controlled via a remote wall mounted room thermostat and a single port motorised valve.

## Valve Box/End Cap Kit (right & left hand)

These are used to finish the beginning and the end of the Sureline installation run. They allow supply and return pipes and valves to be fitted and allow the piping to enter the unit from the bottom.

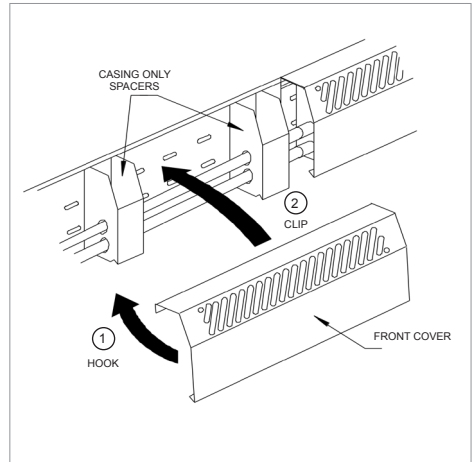


The Sureline Valve box / end cap kits are a single piece with tabs at the top and tab clips at the bottom. To install, place the lower snap tab under the front cover, lift up and snap the top edge between the wall and the back of the Sureline covers. Once installation is complete the joining strip should fit snugly and the seams formed by the joining cover should be smooth and uninterrupted.

## Casing Only

Casing only is used to complete a run of Sureline from wall to wall where the required heating output has been achieved and a dummy panel is required to ensure the installation looks uniform. Cut the back plate and front cover to the required length.

The back plate is installed first so that it is parallel and level with the back plate of the other lengths. The front cover and joining strip are then installed in the same manner as described for the standard installation.

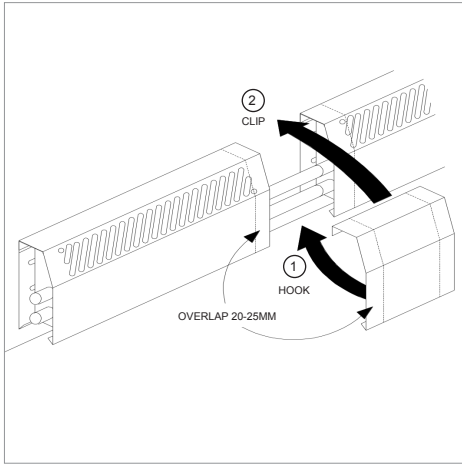


## Child Safety Guard

Where small children may have access to the underside of the completed installation we recommend fitment of the Child Safety Guard. This comes in 0.5Mtr and 1.0 Mtr lengths and fits directly underneath the heat exchanger and clips into position between the lip on the back plate and the front casing.

# Joining Strip

These are used to cover joints between two abutting Sureline covers.



The joining strip is a single piece with a tab at the top and a snap tab at the bottom. To install, place the lower snap tab under the front cover, lift up and snap the top edge between the wall and the back of the Sureline covers. Once installation is complete the joining strip should fit snugly and the seams formed by the joining cover should be smooth and uninterrupted.

# 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.

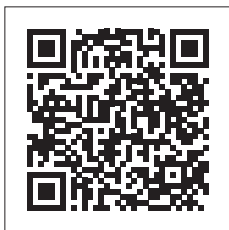
**For more information on the warranty period for this product please visit our website [smithsep.co.uk/product-registration/](http://smithsep.co.uk/product-registration/)**

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/](http://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](http://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/ED0093VW



Approved CQS ISO  
9001:2015



ISO 14001  
Certificate No. 202000000

# 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](mailto:sales@SmithsEP.co.uk)

General information: [info@SmithsEP.co.uk](mailto:info@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](http://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](http://www.SmithsEP.co.uk)**

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

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