

Once the piping arrangement has been selected you will then solder the tubing in place using accepted heating practices. Please note that an expansion compensator must be provided on any straight continuous run longer than 25 feet.

Start Up

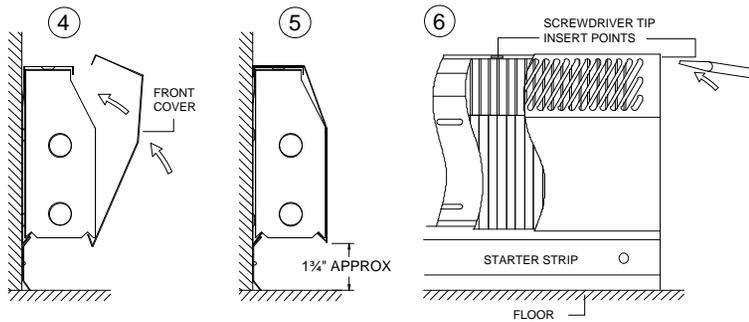
Check for any leaks. Ensure adequate flow is providing the required water temperature delta "T" for maximum output. It may be necessary to balance the system to achieve the flow or water temperature required to meet the desired capacity.

Front casing

Place the lower locating lip (on the inside of the front cover) under the front notch found on the front bottom side of the element core. See drawing (4). Pivot the casing carefully upward towards the rear of the top of the backplate and snap it into position. See drawing (5)

Repeat the above procedures when installing splitter strips, end caps, valve boxes and internal or external covers 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 backplate and reverse the fixing procedure. See drawing (6)



Room Thermostat Control

Heating Edge™ can be controlled via a remote wall mounted room thermostat. A 3/4" zone valve may also be used. Please refer to manufacturer's instructions for the application and installation of thermostats and zone valves.

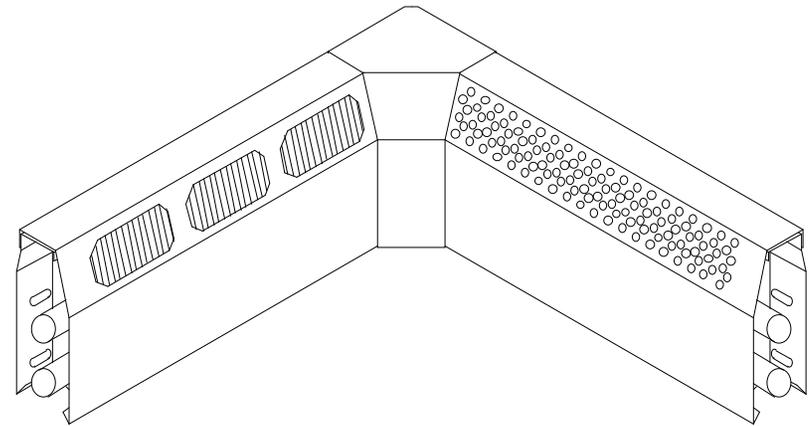
Smith's Environmental Products Ltd, 300 Pond Street Randolph, MA 02368
Telephone 781-986-2525 or visit our website at
www.smithsenvironmental.com



HEATING EDGE™

PERIMETER HEATING

INSTALLATION GUIDE



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HEATING EDGE™ HAS BEEN FULLY ASSEMBLED AT THE FACTORY TO MINIMIZE ANY SHIPPING DAMAGE. TO PREPARE THE COMPONENTS FOR INSTALLATION, FIRST SLIDE THE FRONT COVER CASING OFF OF THE BACKPLATE THEN SLIDE THE HEATING ELEMENT CORE OFF OF THE BACKPLATE. THESE THREE ITEMS, PLUS THE POSSIBLE USE OF THE STARTER STRIP, ARE THE ITEMS REQUIRED FOR A SUCCESSFUL INSTALLATION. PLEASE PROCEED WITH THE FOLLOWING INSTRUCTIONS.

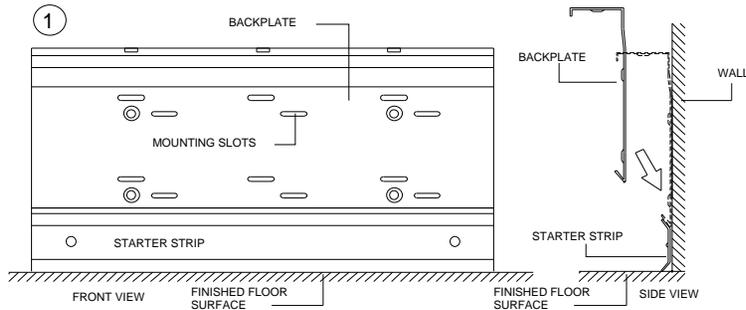
Introduction

Heating Edge™ is designed to fit directly against a perimeter wall to provide a constant flow of warm air into the room. Heating Edge™ is supplied complete with a back plate, a heating element (core), a front cover, a 3" splicer and a starter strip. End caps, valve boxes, inside and outside corners are all available as accessories. Element only (EO) and casing only (TK) are also available to order.

Preparation

Ensure that the walls are flat, sound and capable of safely supporting the weight of the product.

Although a minimum AIR GAP of 1¾" is required between the underside of the backplate and the finished floor surface it is advisable to maintain a 2" to 3" air gap at all times. Failure to provide, at least the minimum, will dramatically affect the output from the product. See drawing (1)



Starter Strip See drawing (1)

Attach the starter strip at the base of the wall, This acts as a guide for mounting the back plate. Note that this strip is 1¾" high (the minimum). If your installation will be at an alternate height, the starter strip will not be necessary. Also note that if a kick board has already been installed, it may be necessary to remove it

Backplate See drawing (1)

After either installing the starter strip or measuring the correct mounting height please screw the left hand (or right hand) end of the (black) back plate to the wall. Ensure that the back plate is level and then secure the opposite end firmly to the wall. There are enough slots available that more than one will line up with a stud. Repeat this process with each length of backplate. Always allow the correct distance from the return walls to compensate for the dimensions of the accessories you have selected. When using a centre valve cover remember to allow a 5" gap between each element backplate.

Cutting to size

If required, Heating Edge can be cut to size (for example if you require a length of 7ft 4 inches then a 8ft length can be cut to suit). You will require a steel blade cross cut saw, a tube cutter and a pair of pliers.

Measure the required size, mark front panel and back plate and cut to size using a steel blade cross cut saw. Using a pair of pliers now remove the aluminium element core fins to equal the same distance previously cut from the front panel and back plate.

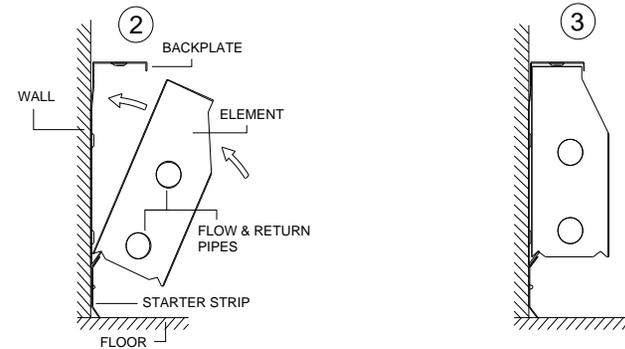
NOTE: REMOVE THE FINNS FROM THE END OF THE ELEMENT CORE THAT IS NOT SWEDGED.

Measure and cut the lengths of copper tubing so it is equal to the length of the front panel and backplate using a tube cutter.

Any irregularities in the cut metalwork will be hidden by the splicer or corner joints etc.

Heating Element. See drawing (2)

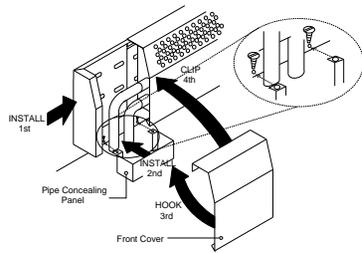
Locate the lower rear of the element core (it has a notch) onto the lower lip of the bottom of the backplate and carefully pivot the element towards the back plate until it gently snaps in place under the back plate upper flange. The element core is now ready for connecting to the Supply & return pipework. See drawing (3)



Pipework

The Heating Edge™ element core is supplied with ¾" Supply and return copper tubes. As there are several different piping arrangements, you must select the one, which meets both the job requirements for capacity as well as application.

Please check the website for full range of capacities - www.smithsenvironmental.com



End Caps and valve Boxes are three piece accessories. That is, they have a back plate, which also includes an integrated end panel, a pipe cover and a front cover. To install an end cap or valve box first attach the back plate (with integrated end panel) to the wall stud at the end of the Heating Edge™ run so that the back plate lines up with, and is level with, the back plate of the Heating Edge™. Secondly, the pipe cover is then attached to the bottom edge of the back plate using screws provided (see illustration). Lastly, the outer cover is installed by placing the lower locating lip (snap tab) under the front cover of both the Heating Edge™ cover and the end cap side panel. Then lift up and snap the back tab in between the wall and the back of the top edge of the covers. Please note that the 6" splicer can easily be confused with the cover of the 6" end cap. The difference is that the 6" splicer is a true 6" while the cover for the 6" end cap is actually 6 1/2" to accommodate the overlap.

Trim Kit.

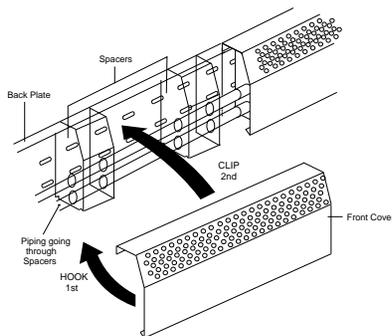
Trim kits are available in 1ft,2ft,3ft,4ft,5ft,6ft,7ft and 8ft lengths. Each kit includes a back plate, a front casing and specially designed spacers that are used to hold the cover off of the back plate. The spacers are manufactured to allow both a supply and return tube to pass through them. So, if a trim kit is needed the installer must install the spacers at the same time that he installs the Heating Edge™ fin block.

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The trim kit is used to complete a run of Heating Edge™ from wall to wall where the required heating output has been achieved and a dummy panel is required to ensure the installation looks uniform.

The trim kit back plate is installed first so that it is parallel and level with the back plate of the full baseboard strip. The spacers are hooked into the back plate by placing the lower groove on the bottom lip of the back plate and tilting the spacer up and into the top part of the back plate until it snaps in place. The installer must then run his copper supply and return tubes through the spacers and the solder them to the ends of the Heating Edge™ coil block. The trim kit cover is installed along with the baseboard covers in the same manner as described for the baseboard cover installation.

Note that all accessories will fit the trim kits as well as the full cored baseboard sections.



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HEATING EDGE™

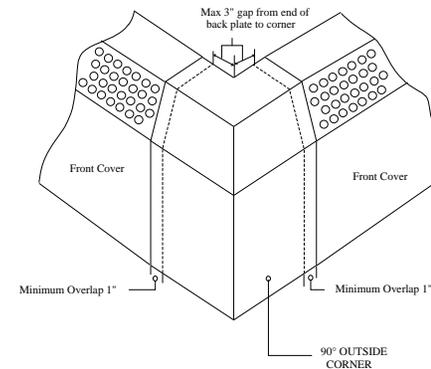
PERIMETER HEATING ACCESSORY INSTALLATIONS.

INTRODUCTION

Heating Edge™ is designed to fit directly against a perimeter wall to provide a constant flow of warm air into the room. Heating Edge™ is supplied complete with a back plate, a heating element (core) a front cover and a starter strip. End caps, Valve boxes, inside and outside corners and splicers are available as accessories and are listed below.

90° outside Corner

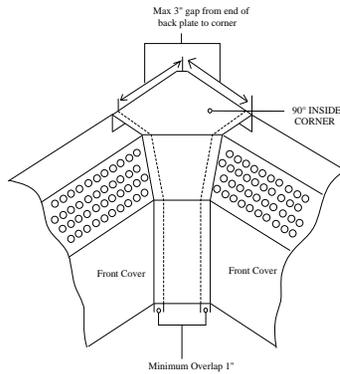
To be used when joining two lengths of Heating Edge™ on an outside corner where the angle is 90°.



The Heating Edge™ outside corner is a single piece with tabs at the top and a tab clip at the bottom. To install please ensure that the Heating Edge™ back plate is fixed to the two opposing wall surfaces with a maximum gap from the corner of no more than 3". Place the bottom tab clip under the adjacent Heating Edge™ 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.

90° inside Corner

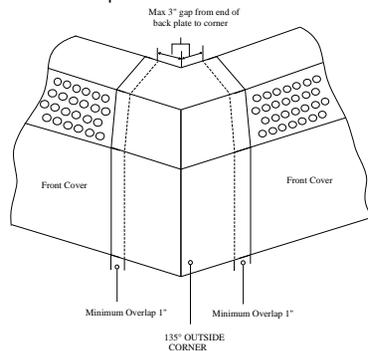
To be used when joining two lengths of Heating Edge™ on an inside corner where the angle is 90°.



The Heating Edge™ inside corner is a single piece with tabs at the top and tab clips at the bottom. To install, please ensure that the Heating Edge™ back plate is fixed to the two opposing wall surfaces with a maximum gap in from the corner of no more than 3". Place the bottom tab clip under the adjacent Heating Edge™ covers. Then angle the inside corner up so that the top tabs snaps 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.

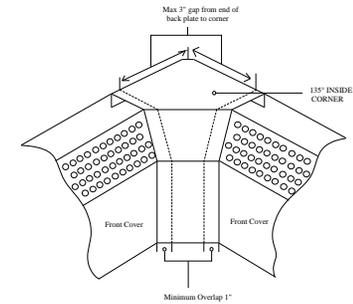
135° outside corner

To be used when joining two lengths of Heating Edge™ to the two opposing surfaces with a maximum gap from the corner of no more than 3". The Heating Edge™ outside corner is a single piece with tabs at the top and a tab clip at the bottom. To install please ensure that the Heating Edge™ back plate is fixed to the two opposing wall surfaces with a maximum gap from the corner of no more than 3". Place the bottom tab clip under the adjacent Heating Edge™ covers. Then angle the outside corner up so that the top tabs snaps 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.



135° inside Corner

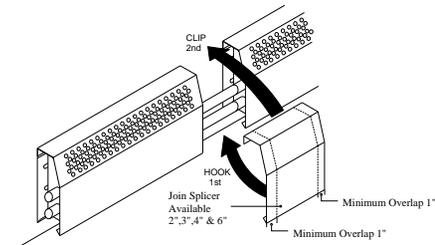
To be used when joining two lengths of Heating Edge™ on an inside corner where the angle is 135°.



The Heating Edge™ inside corner is a single piece with tabs at the top and tab clips at the bottom. To install, please ensure that the Heating Edge™ back plate is fixed to the two opposing wall surfaces with a maximum gap in from the corner of no more than 3". Place the bottom tab clip under the adjacent Heating Edge™ covers. Then angle the inside corner up so that the top tabs snaps 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.

Joint Splicer

These are available in 2", 3", 4" and 6" lengths and are used to cover joints between two abutting Heating Edge™ covers or to provide spacing between Heating Edge™ covers if required (i.e. expansion joints and precise fitting around awkward areas)



Select the desired splicer width for the application ensuring the splicer has an overlap of at least 1" over the front cover on either side of the joint to be covered. The splicer 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 Heating Edge™ covers. Once installation is complete the splicer should fit snugly and the seams formed by the splicer and the covers should be smooth and uninterrupted.

Please note that the 6" splicer can easily be confused with the cover of the 6" end cap. The difference is that the 6" splicer is a true 6" while the cover for the 6" end cap is actually 6 1/2" to accommodate the overlap.

End Caps and Valve boxes (right and left hand)

End Caps (6" or 12") are used to finish the beginning and the end the Heating Edge™ installation run. Valve boxes (6" or 12") allow supply and return valves to be field installed (if desired) and allow the piping to enter the unit from the bottom.

NOTE, there may be occasions where the swage will need to be removed, to enable the fitter to connect to another unit. We apologise for any inconvenience.