HE2 Heating Edge™
by Smith's Environmental Products

High Efficiency Perimeter Heating Equipment

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Rate (GPM)</th>
<th>Average Water Temperature (BTU/hr/ft @ AWT in °F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE2</td>
<td>0.0044</td>
<td>75, 127, 169, 208, 260, 311, 362, 408, 470, 524, 576, 629, 685</td>
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<tr>
<td>HE2</td>
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<tr>
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<tr>
<td>HE2</td>
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<td>135, 195, 259, 323, 388, 466, 552, 634, 710, 793, 874, 959</td>
</tr>
<tr>
<td>HE2</td>
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<tr>
<td>HE2</td>
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<td>101, 165, 225, 289, 356, 426, 498, 572, 644, 720, 797, 874, 959</td>
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<td>135, 195, 259, 323, 388, 466, 552, 634, 710, 793, 874, 959</td>
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<tr>
<td>HE2</td>
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<td>130, 205, 260, 315, 466, 546, 637, 718, 813, 911, 1009, 1113, 1215</td>
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<tr>
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<td>134, 224, 314, 412, 519, 620, 741, 860, 974, 1105, 1249, 1386, 1520</td>
</tr>
</tbody>
</table>

Performance Notes: All ratings include a 15% heating effect factor. Materials of construction include all aluminum “patented” fins at 47.3 per LF, mechanically bonded to two 3/4” (075) type L copper tubes (“Coil Block”) covered by a 20 gauge perforated, painted cover all mounted to a backplate. Please see dimensional drawing for fin shape and dimensions. EAT=65°F. Pressure drop in feet of H2O per LF.

Installation Notes: HE2’s unique design allows performance outputs exceeding those of traditional single pipe baseboard designs. When installed with a parallel supply connection it is recommended that a minimum flow rate of 1.5 gpm be maintained to maximize efficiency and performance.

Where marked (*) Heating Edge (HE2) output is based on performance tests witnessed by BSRIA. The test data can be verified on the BSRIA website (report 55944/2). This includes calibration information.

The catalogue data above is presented in accordance with the American IBR laboratory testing protocol for baseboard heating. This allows a 15% heating effect factor to be applied to the test values.


HE-TK trim kit includes the cover, backplate and starter strip.

Products

- IC90W 90° Inside Corner
- OC90W 90° Outside Corner
- IC135W 135° Inside Corner
- OC135W 135° Outside Corner
- EC12W 12” End Cap (left or right)
- EC6W 6” End Cap (left or right)
- SW Splicer 2”, 3”, 4”, 6”
- EC6W 6” End Cap (left or right)

Dimensions

- HE2 has a perforated cover making it childproof and aesthetically pleasing.
- HE-TK trim kit includes the cover, backplate and starter strip.


- High Capacity
- Superior Low Temperature Performance Ranges
- Scrub Board Fin Design For Maximum Airflow
- Easy To Install & Clean
- Rust Resistant
- Available In 2ft - 8ft Lengths
High efficiency equipment requires a high efficiency heating element...

Geothermal heat pumps, solar thermal collectors and condensing boilers are all great ways to save energy and reduce fossil fuel usage. All three achieve their highest efficiencies when delivering low temperature water. The challenge faced when it comes to heating effectively with traditional baseboard is that supply water temperatures need to be at least 140°F in order to deliver enough BTUHs to sufficiently heat a space at design temperature. Not so with the Heating Edge HE2 high capacity hybrid element. Because the HE2 has the unique two-pipe design, it is able to deliver comparable BTUHs using 90°F water, all in an attractive package.

Heating Edge is perfect for use with the following low temperature heat generators:

- Geothermal
- Condensing Boilers
- Solar Thermal

Heating Edge gives homeowners the performance and reliability they demand.

Heat transfer efficiency of baseboard

- Delivery systems
- Heating EDGE
- Hybrid baseboard
- Rigid fins
- Radiant fins

In addition to the usual benefits of heating systems, Heating Edge provides the following advantages:

**Unique Coil Design**
- Enhanced contact to coil block provides larger radiant surface
- Combined with conductive chimneys created by folded fins

**New Enhanced Fin Design**
- Generates more surface area; folded in front and back
  - Turbulated fin surface
  - Deeper collars for maximum mechanical bond
  - Extra hold off fold to prevent nesting
  - Slightly different shape to maximize turbulent air flow

**Two Pipe Design**
- High capacity outputs; variable piping options
  - The only two pipe reverse return product available
  - Allows for a variety of piping methods and capacity enhancements (please refer to back cover for performance table)

**Three Piece Design**
- Eliminates all carriers, brackets, cradles, damper, damper vents and miscellaneous hardware resulting in quiet comfort

**Perforated Cover Design**
- Perforated holes of less than 1/4" prevent foreign objects from entering coil block
  - Crayons, pencils and pens will not slip through
  - Ideal for children's rooms

**Easy to Clean**
- Simply cleaned with the pass of a vacuum cleaner
- The healthier alternative

**Rust Resistant**
- Coil block constructed of Aluminum and Copper
- Cover and "EZ HANGER" backplate constructed of 20 gauge steel with a 2-part rust resistant paint with all edges and openings finished and coated
- Withstands the rigors of most bathroom applications

**Rugged Exterior**
- Contact with coil block provides added support and rigidity to ensure cover to be dent resistant making the Heating Edge ideal for:
  - Offices, Dormitories, Restaurants, Children's Rooms, Hospitals, Schools, Nursing Homes, Lobbies, Apartments, Assisted Living Facilities

Installs in a "Snap" 1-2-3

1. Mount "EZ Hanger" Backplate
   - Fasten to wall through mounting slots provided (6 per foot).
   - When installing on top of finish floor, utilize starter strip to maintain the minimum 1 3/4" air gap.

2. "SNAP" in Coil Block
   - Engage back notch onto lower lip of the "EZ Hanger" Backplate and pivot the Coil Block towards the wall until it "Snaps" into place.

3. "SNAP" on Cover
   - After piping connections are completed, place lower lip of cover into front notch in the Coil Block and pivot towards the wall until it "Snaps" over the 'EZ Hanger' Backplate.

Due to printing process, actual color may vary slightly from that depicted above.