COMMERCIAL FIN-TUBE
Radiation Selection Guide

- Ideal for use with High Efficiency Boilers
- Very Efficient Operation
- Decorator Colors Available

Output Ratings Range:
- 110°F through 220°F Water Temperature
- 1 P.S.I. Steam

For BIM objects, go to: www.slantfin.com
Style: Slope-top and flat-top. Aluminum grille optional (90 & 95).
Application: Commercial heating. Hot water or steam.
Output: 373 to 3140 Btu/hr.
Elements: Choice of 12. Copper/aluminum or steel.
Finish: Nu-White

On your commercial heating jobs, select the product that installs faster, looks better, lasts longer and saves money – Multi/Pak 90. These 2-piece fin-tube enclosures are fully packaged and in stock at our factory and local Slant/Fin wholesale distributors.

Multi/Pak 90 provides what you need:
• slope-top and flat-top styling
• wide choice of elements for hot water or steam
• precision built accessories

**J SERIES**

1-piece fin-tube enclosure.
Style: Slope-top
Application: Commercial heating. Hot water or steam.
Output: 599 to 3854 Btu/hr.
Elements: Choice of 6. Copper/aluminum or steel.
Finish: Galvannealed or Custom Colors.*

**HD SERIES & LC SERIES**

Heavy duty slope-top baseboard.
Style: Slope-top, louvered baseboard.
Application: Rugged duty residential or light commercial heating. Hot water or steam.
Output: 360 to 1660 Btu/hr.
Elements: Choice of 5. Copper/aluminum or steel.
Finish: Galvannealed or Custom Colors.*

**350 SERIES**

High output slope-top baseboard.
Style: Slope-top, louvered baseboard.
Application: Light commercial heating. Hot water or steam.
Output: 460 to 2250 Btu/hr.
Elements: Choice of 5. Copper/aluminum or steel.
Finish: Nu-White, galvanized or custom colors.*

**R SERIES**

1-piece fin-tube enclosure.
Style: Flat-top. Aluminum grille optional. (Top outlet only) (Front outlet optional 14" thru 28")
Application: Commercial heating. Hot water or steam.
Output: 554 to 3770 Btu/hr.
Elements: Choice of 6. Copper/aluminum or steel.
Finish: Galvannealed or Custom Colors.
RT= Top Outlet
RF= Front Outlet

**FS SERIES**

Free standing fin-tube enclosure.
Style: Pedestal mounted enclosure.
Application: Commercial heating. Hot water or steam.
Output: 581 to 3339 Btu/hr.
Elements: Choice of 6. Copper/aluminum or steel.
Finish: Galvannealed or Custom Colors.*

**TBG SERIES**

1-piece fin-tube enclosure.
Style: Slope top and bottom.
Application: Commercial heating. Hot water or steam.
Ideal for upper wall installation.
Output: 540 to 2548 Btu/hr.
Elements: Choice of 6. Copper/aluminum or steel.
Finish: Galvannealed or Custom Colors.*

**MULTI/PAK® 80 SERIES**

High output baseboard radiation.
Style: Low-profile baseboard.
Application: Light commercial or deluxe residential heating. Hot water or steam.
Output: 420 to 1200 Btu/hr.
Elements: Choice of 5. Copper/aluminum or steel.
Finish: Nu-White and Custom Colors.*

**F&EM SERIES**

1-piece element covers.
Style: F-Series: Louvered top.
Application: EM Series: Expanded metal
Industrial hot water or steam.
Output: F Series: 563 to 3497 Btu/hr.
EM Series: 581 to 4158 Btu/hr.
Elements: Choice of 6. Copper/aluminum or steel.
Finish: Galvannealed or Custom Colors.*

**BARE ELEMENTS**

Highest quality fin-tube for single or multi-tier installation.
Application: With Slant/Fin enclosures or as bare element installation.
Output: To 4316 Btu/hr.
Elements: Choice of 12. Copper/aluminum or steel.

**TH SERIES**

Trough Heater is a floor recessed commercial finned tube heater.

**ENGINEERING DATA**

Ratings Data Specifications
(Refer to pages 29-35)

Color paint chips are available upon request. Email: orders@slantfin.com or contact Customer Service.
* Visit "Product Resources" on our Website for Decorator Color Available.
**Cover panels**

18 gauge top cover and front cover interlock in rigid support arm channel. Lateral bends in top and front cover, plus strength of support arm, give assembled enclosure exceptional rigidity.

**Element support – SC Hanger**

- Electro-galvanized bracket has fastening slot that allows 1\(\frac{1}{8}\)" pitch adjustment.

- Electro-galvanized cradle supports finned or bare tubing at same height.

- Sliding guide rod provides full cradle width support. 1\(\frac{5}{16}\)" lateral movement permits smooth, noiseless expansion.

**Pencil-proof louvers**

Minimize “see through.”

**Multi/Pak 93 and 95 wall brackets**

- Extra-heavy 11 gauge wall bracket and panel support arm are die formed with multiple bends that add strength.

- Multi/Pak 93 element hanger permits 7\(\frac{1}{16}\)" pitch adjustment. Self-adjusting polypropylene expansion cradle on “H” and “E” elements allow silent lateral expansion movement.

- Multi/Pak 95 SC hangers are identical to Multi/Pak 90.

**Multi/Pak 90 wall brackets**

- Heavy duty 14 gauge wall bracket is drawn die formed with multi-directional bends that add strength.

- Mounting slots provide 3\(\frac{3}{4}\)" height adjustment.

- Large recessed “flat” prevents bracket from crushing wall surface when back panel is not used.

**Internal Splice Plate**

Cover sections butt to each other with a nearly seamless fit using the internal splice plate, optional for Multi/Pak 90 slope top enclosures. Eliminates need for an external splice plate.

**OPTIONAL EQUIPMENT**

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hanging Strip</td>
<td>Provides additional rear support and seal</td>
</tr>
<tr>
<td>Tamper-proof lock</td>
<td>Locks front cover to lower arm of bracket</td>
</tr>
<tr>
<td>Wall Gasketing</td>
<td>For dustproof seal between top of cover and wall</td>
</tr>
</tbody>
</table>

**Damper**

Knob operated damper (optional) is activated by precision lead screw and brass trunnion pitch block. Provides years of smooth operation. Damper for slope-top models is shown. Flat top models utilize a hinge type construction.
Multi/Pak 90 Complete Enclosure Assembly

PACKAGING: Complete two-piece assembly factory packaged with necessary brackets and hangers.

CONSTRUCTION: Two-piece interlocking top cover/front cover mount on wall brackets. Lock in place to provide the same shape with better rigidity than one-piece covers.

DEPTH: 5 1/4”

HEIGHTS: 14” (one tier), 21” (one or two tier)


MATERIAL: 18-gauge galvanized steel top and front cover. Stamped grille is standard. Aluminum grille optional.

FINISH: Nu-White (Standard)

WALL BRACKETS/HANGERS: Packaged with complete assembly. SC hanger has guide rod to provide 1 1/8” lateral expansion movement, 1 1/4” vertical pitch adjustment. Brackets and hangers provided with complete assembly as follows:

<table>
<thead>
<tr>
<th>Length</th>
<th>90-14 Brackets</th>
<th>90-14 Hangers</th>
<th>90-21 Brackets</th>
<th>90-21 Hangers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-5 ft.</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>6-8 ft.</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>


JOINTS: Cover section joints may be made with internal splice plates or telescopic external splice plates.

With the optional internal splice plate, cover sections butt to each other with a nearly seamless fit. Telescopic external splice plates, filler sleeves and other accessories make up odd inches and eliminate the need to perfectly butt one length of cover to the next. Critical linear and vertical tolerances are eliminated because telescopic assembly absorbs misalignment that might result from uneven floors and walls.

See pages 4-5 for description of features.
### RATINGS

With or without dampers

<table>
<thead>
<tr>
<th>Cover Type</th>
<th>Enclosure Height</th>
<th>Element Type</th>
<th>Tube Size &amp; Material</th>
<th>Fin Size &amp; Material</th>
<th>Fins Per Foot</th>
<th>Steam 1 PSI* Btu/Hr./Ft.</th>
<th>HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 FT./Sec.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-14</td>
<td>14&quot;</td>
<td>S-532</td>
<td>1/2&quot; steel</td>
<td>4/5&quot; steel</td>
<td>32</td>
<td>1380</td>
<td>20 76 35 45 55 2 621 731 842 952 1076 1187 1311 1449</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1/2&quot; steel</td>
<td>4/5&quot; steel</td>
<td>40</td>
<td>1550</td>
<td>22 31 40 51 62 698 822 946 1070 1209 1333 1473 1628</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>3/4&quot; copper</td>
<td>4/5&quot; alum.</td>
<td>40</td>
<td>1700</td>
<td>24 42 51 62 78 937 1087 1241 1402 1563 1721 1883 2048</td>
</tr>
<tr>
<td>90-21</td>
<td>21&quot;</td>
<td>S-532</td>
<td>1/2&quot; steel</td>
<td>4/5&quot; steel</td>
<td>32</td>
<td>1460</td>
<td>21 29 38 48 58 657 774 891 1007 1139 1256 1387 1533</td>
</tr>
<tr>
<td>One-tier element</td>
<td></td>
<td>S-540</td>
<td>1/2&quot; steel</td>
<td>4/5&quot; steel</td>
<td>40</td>
<td>1680</td>
<td>23 33 43 54 67 756 890 1025 1159 1310 1445 1586 1764</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>3/4&quot; copper</td>
<td>4/5&quot; alum.</td>
<td>40</td>
<td>1839</td>
<td>25 39 51 65 807 976 1122 1269 1435 1582 1748 1932 2114</td>
</tr>
<tr>
<td>90-21</td>
<td>21&quot;</td>
<td>S-532</td>
<td>1/2&quot; steel</td>
<td>4/5&quot; steel</td>
<td>32</td>
<td>2130</td>
<td>30 42 54 67 803 959 1129 1299 1470 1661 1832 2024 2237</td>
</tr>
<tr>
<td>Two-tier element</td>
<td></td>
<td>S-540</td>
<td>1/2&quot; steel</td>
<td>4/5&quot; steel</td>
<td>40</td>
<td>2300</td>
<td>33 46 59 73 890 1059 1232 1416 1599 1782 1965 2159 2363</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>3/4&quot; copper</td>
<td>4/5&quot; alum.</td>
<td>40</td>
<td>2479</td>
<td>35 50 64 80 976 1129 1311 1502 1693 1884 2075 2266 2469</td>
</tr>
</tbody>
</table>

Note: Ratings are based on active finned length (5-1/4" less than overall length).

* Based on 65°F entering air temperature.

### ACCESSORIES

Fourteen accessories let you “fit” Multi/Pak 90 in virtually any space configuration - fast and easily. External cover accessories are all telescopic. They snap in place without screws or other fasteners. All accessories, unless noted, are finished in Nu-White baked enamel. 10 other colors available.

### non-telescopic accessories

- Column cover set
- Damper (electro galvanized, not available with aluminum grille)*
- Damper, field installed
- Hanging strip*
  *See p.3 for details

### telescopic accessories

- End Cap
- Splice plate
- Filler sleeve
- Center valve cover†
- Inside corner, 90º
- Outside corner, 90º
- End valve cover, 10" (not shown)

† Access doors: 6" x 6". Door location depends on model.
**MULTI/PAK® 93**

**FLAT-TOP, TWO-PIECE ENCLOSURE**

*Pre-painted. Factory packaged.*

**MODELS 93-10 AND 93-17**

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**ORDERING DATA**

**Multi/Pak 93 Complete Enclosure Assembly**

**PACKAGING:** Complete two-piece assembly factory packaged with necessary brackets and hangers.

**CONSTRUCTION:** Two-piece interlocking top cover/front cover mount on wall brackets. Lock in place to provide the same shape with better rigidity than one-piece covers.

**DEPTH:** $3\frac{1}{2}$"  
**HEIGHTS:** 9 $\frac{3}{4}$" (one tier), 16 $\frac{3}{4}$" (one or two tier)  
**LENGTHS:** 2', 3', 3 $\frac{1}{2}$', 4', 5', 6', 7', 8'.

**MATERIAL:** 18-gauge galvanized steel top and front cover. 11-gauge wall brackets.

**FINISH:** Nu-White (Standard)

**WALL BRACKET/HANGERS:** Packaged with complete assembly. Element hangers permit vertical pitch adjustment. Self-adjusting polypropylene element expansion cradles allow silent lateral expansion movement. Brackets and hangers provided with complete assembly as follows:

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
<th>Brackets</th>
<th>Hangers</th>
</tr>
</thead>
<tbody>
<tr>
<td>93-10</td>
<td>2-5 ft.</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>6-8 ft.</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>


**JOINTS:** Telescopic cover accessories eliminate the need to perfectly butt one length of cover to the next. Critical linear and vertical tolerances are eliminated because telescopic assembly absorbs misalignment that might result from uneven floors and walls.

See pages 4-5 for description of features.

**ALUMINUM GRILLE IS NOT AVAILABLE.**

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### RATINGS

With or without dampers

<table>
<thead>
<tr>
<th>Cover Type</th>
<th>Enclosure Height</th>
<th>Rows of Heating Elements</th>
<th>Tube Size &amp; Material</th>
<th>Fin Size and Material (Width x Height x Thickness)</th>
<th>Steam 1 PSI* BTU/hr./ft. (Flow Rate 3 ft./sec.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>110°F</td>
</tr>
<tr>
<td>93-10</td>
<td>9½”</td>
<td>H-1</td>
<td>¾” copper</td>
<td>3” x 3/8” x .024” aluminum</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H-3</td>
<td>¾” copper</td>
<td>2” x 2/3” x .011” aluminum</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H-4</td>
<td>1” copper</td>
<td>3” x 2/3” x .011” aluminum</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H-5X</td>
<td>1⅛” copper</td>
<td>3” x 3/4” x .020” aluminum</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H-6X</td>
<td>1½” IPS Steel</td>
<td>3” x 3/4” x .028” aluminumized steel</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td></td>
<td>E-75</td>
<td>¾” copper</td>
<td>2⅛” x 2¼” aluminum</td>
<td>55</td>
</tr>
<tr>
<td>93-17 One-tier element</td>
<td>16½”</td>
<td>H-1</td>
<td>¾” copper</td>
<td>3” x 3/4” x .024” aluminum</td>
<td>48</td>
</tr>
<tr>
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<td></td>
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</tr>
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<td>48</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H-3</td>
<td>¾” copper</td>
<td>2” x 2/3” x .011” aluminum</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>H-4</td>
<td>1” copper</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>H-5X</td>
<td>1½” copper</td>
<td>3” x 3/4” x .020” aluminum</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H-6X</td>
<td>1½” IPS Steel</td>
<td>3” x 3/4” x .028” aluminumized steel</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td></td>
<td>E-75</td>
<td>¾” copper</td>
<td>2⅛” x 2¼” aluminum</td>
<td>55</td>
</tr>
</tbody>
</table>

*Based on 65°F entering air temperature. **Note:** Ratings are based on active finned length (3" less than overall length).

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### ACCESSORIES

Fourteen accessories let you “fit” Multi/Pak 93 in virtually any space configuration – fast and easily. Cover accessories are all telescopic. They snap in place without screws or other fasteners. All accessories, unless noted, are finished in Nu-White baked enamel. 10 other colors available.

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**non-telescopic accessories**

- Column cover set
- Damper (electro galvanized)*
- Wall gasketing*
- Hanging strip*

*See p.3 for details

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**telescopic accessories**

- End Cap (not shown)
- End Cap-slotted
- Splice plate
- Filler sleeve
- Center valve cover†
- Inside corner, 90°
- Outside corner, 90°
- End valve covers. †

† Access doors: 6" x 6". Door location depends on model.
MULTI/PAK® 95
FLAT-TOP, TWO-PIECE ENCLOSURE
Pre-painted. Factory packaged.

MODELS 95-10 AND 95-17

ORDERING DATA

Multi/Pak 95 Complete Enclosure Assembly

PACKAGING: Complete two-piece assembly factory packaged with necessary brackets and hangers.

CONSTRUCTION: Two-piece interlocking top cover/front cover mount on wall brackets. Lock in place to provide the same shape with better rigidity than one-piece covers.

DEPTH: 5¼"

HEIGHTS: 9¾" (one tier), 16¾" (one or two tier)

LENGTHS: 2', 3', 3½', 4', 5', 6', 7', 8'. Elements from 2 to 12 ft.

MATERIAL: 18-gauge galvanized steel top and front cover. 11-gauge wall brackets.

FINISH: Nu-White (Standard) Anodized architectural aluminum grille optional.

WALL BRACKETS/HANGERS: Packaged with complete assembly. SC-2 hanger has guide rod to provide 1½" lateral expansion movement, 1½" vertical pitch adjustment. Brackets and hangers provided with complete assembly as follows:

<table>
<thead>
<tr>
<th>Length</th>
<th>95-10</th>
<th>95-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-5 ft.</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>6-8 ft.</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>


JOINTS: Telescopic cover accessories eliminate the need to perfectly butt one length of cover to the next. Critical linear and vertical tolerances are eliminated because telescopic assembly absorbs misalignment that might result from uneven floors and walls.

See pages 4-5 for description of features.
### Ratings

<table>
<thead>
<tr>
<th>Cover Type</th>
<th>Enclosure Height</th>
<th>Element Type</th>
<th>Tube Size &amp; Material</th>
<th>Fin Size &amp; Material</th>
<th>Fins Per Foot</th>
<th>Steam 1 PSI* Btu/hr/ft. Per Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>S-532</td>
<td>1/8 steel</td>
<td>4/8 steel</td>
<td>32</td>
<td>1254</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1/8 steel</td>
<td>4/8 steel</td>
<td>40</td>
<td>1470</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-832</td>
<td>2 steel</td>
<td>4/8 steel</td>
<td>32</td>
<td>1310</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>3/8 copper</td>
<td>4/8 alum.</td>
<td>40</td>
<td>1680</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1/4 copper</td>
<td>4/8 alum.</td>
<td>40</td>
<td>1780</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>1/4 copper</td>
<td>4/8 alum.</td>
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<td>1745</td>
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<tr>
<td>95-10</td>
<td>9/16”</td>
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<td>1351</td>
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<td>1/8 steel</td>
<td>4/8 steel</td>
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<td>1577</td>
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<td>2 steel</td>
<td>4/8 steel</td>
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<td>1390</td>
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<td>4/8 alum.</td>
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<td>4/8 alum.</td>
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<td>4/8 alum.</td>
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<td>95-17</td>
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<td>S-532</td>
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<td>4/8 steel</td>
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<td>2153</td>
</tr>
<tr>
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<td></td>
<td>S-540</td>
<td>1/8 steel</td>
<td>4/8 steel</td>
<td>40</td>
<td>2390</td>
</tr>
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<td></td>
<td>S-832</td>
<td>2 steel</td>
<td>4/8 steel</td>
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<td>2290</td>
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<td>4/8 alum.</td>
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<td>2615</td>
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<td>1/4 copper</td>
<td>4/8 alum.</td>
<td>40</td>
<td>2770</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>1/4 copper</td>
<td>4/8 alum.</td>
<td>40</td>
<td>2715</td>
</tr>
</tbody>
</table>

### Accessories

**Non-Telescopic Accessories**

- Column cover set
- Damper (electro galvanized, not available with aluminum grille)*
- End cap
- End cap-slotted (not shown)
- Filler sleeve
- Inside corner, 90°
- Insulation
- Wall gasketing*
- Non-telescopic accessories

**Telescopic Accessories**

- End cover, slotted, 10°
- End valve cover, 10" (not shown)

*See p.3 for details.

---

*Based on 65°F entering air temperature. **Note:** Ratings are based on active finned length (5-1/4" less than overall length).

---

Fourteen accessories let you “fit” Multi/Pak 95 in virtually any space configuration – fast and easily. Cover accessories are all telescopic. They snap in place without screws or other fasteners. All accessories, unless noted, are finished in Nu-White baked enamel. 10 other colors available.

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† Access doors: 6" x 6", Door location depends on model.
**J SERIES**

**SLOPE-TOP, ONE-PIECE ENCLOSURE**

**MODELS: JL-10, JA-14, JA-21, JA-28**

**CONSTRUCTION:** Single-piece cover mounts on wall brackets

**DEPTH:** 5 ¼”

**HEIGHTS:** 9 7/8” and 14” (one tier), 21” (one or two tier), 26” (up to three tier)

**LENGTHS:** 2’, 3’, 3 1/2’, 4’, 5’, 6’, 7’, 8’. Other 1/2’ lengths available to order.

**MATERIAL:** 18-gauge front cover. 16 and 14-gauge optional. Optional back panel: 20-gauge.

**FINISH:** Galvannealed (Standard). Baked enamel finishes in decorator colors available to order, all models.

**WALL BRACKETS/HANGERS:** Order separately, specify BKT (bracket only) or BKT ASSY (bracket complete with SC hangers) followed by cover stock number and quantity. Recommended bracket spacing is as follows:

<table>
<thead>
<tr>
<th>Length</th>
<th>Copper Elements</th>
<th>1 1/4” Steel Elements</th>
<th>2” Steel Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-5 ft</td>
<td>2</td>
<td>1 per 2 1/2” of cover</td>
<td>1 per 2’ of cover</td>
</tr>
<tr>
<td>6-8 ft</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ELEMENTS:** Copper with aluminum fins: C-340, C-440, C-540. Steel with electro-galvanized steel fins: S-532, S-540, S-632. Lengths from 2 to 12 feet (Canada: 2 to 8 feet). See p. 30.

**JOINTS:** Internal splice plates (JA models only; see p.5) align cover sections which butt to one another, providing a near seamless joint. Use of telescopic accessories with any J Series model eliminates the need to perfectly butt one length of cover to the next. Critical linear and vertical tolerances are eliminated because telescopic assembly absorbs misalignment that might result from uneven floors and walls. **JL-10, JA-14, JA-21 and JA-28** models mount flush with the wall. For readily available prepackaged two-piece fin-tube radiation refer to Multi/Pak 90, pages 4-11. Galvannealed finish is standard. Optional baked enamel finish available.

**Built for easy installation, long life** J Series fin-tube enclosures are functional, durable units, popular for deluxe commercial installations: schools, offices, hospitals, churches and office buildings. J Series enclosures feature a graceful, sloping louvered top which minimizes apparent bulk, and discourages use of the enclosure as a shelf or window seat.

- Pencil-proof louvers minimize “see through”.
- Heavy duty 14-gauge wall bracket is drawn die formed. Secures cover in place with rigid spring lock action. Snap-in center brace supports middle of cover.
- Bracket mounting slots provide ¾” height adjustment. Large recessed “flat” prevents bracket from crushing wall surface when back panel is not used.
- Element hanger has sliding guide rod that provides full cradle width support. 1 ¼” lateral movement permits smooth, noiseless expansion. Cradle supports finned or bare tubing at same height. Fastening slot in bracket allows ½” pitch adjustment.
- Knob-operated damper (optional) modulates fully to control output. See page 5 for details.
<table>
<thead>
<tr>
<th>Cover Type</th>
<th>Enclosure Height</th>
<th>Element Type</th>
<th>Tube Size and Material</th>
<th>Fin Size and Material</th>
<th>Fins Per Foot</th>
<th>Steam 1 PSI* BTU/HR. Per Foot</th>
<th>HOT WATER RATINGS* BTU/HR/FT. (Flow Rate 3 FLS./Sec.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1/4&quot; steel</td>
<td>4/4&quot; steel</td>
<td>40</td>
<td>1430</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-832</td>
<td>2&quot; steel</td>
<td>4/4&quot; steel</td>
<td>32</td>
<td>1350</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>1 1/4&quot; copper</td>
<td>4/4&quot; alum.</td>
<td>40</td>
<td>1753</td>
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<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1 1/4&quot; copper</td>
<td>4/4&quot; alum.</td>
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<td>1820</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1/4&quot; steel</td>
<td>4/4&quot; steel</td>
<td>40</td>
<td>1550</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-832</td>
<td>2&quot; steel</td>
<td>4/4&quot; steel</td>
<td>32</td>
<td>1400</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>1 1/4&quot; copper</td>
<td>4/4&quot; alum.</td>
<td>40</td>
<td>1753</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1 1/4&quot; copper</td>
<td>4/4&quot; alum.</td>
<td>40</td>
<td>1950</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1/4&quot; steel</td>
<td>4/4&quot; steel</td>
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<td></td>
<td></td>
<td>S-832</td>
<td>2&quot; steel</td>
<td>4/4&quot; steel</td>
<td>32</td>
<td>1520</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>1 1/4&quot; copper</td>
<td>4/4&quot; alum.</td>
<td>40</td>
<td>1822</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1 1/4&quot; copper</td>
<td>4/4&quot; alum.</td>
<td>40</td>
<td>2130</td>
<td></td>
</tr>
</tbody>
</table>

**ACCESSORIES**

A complete range of accessories lets you “fit” J-series in virtually any space configuration - fast and easy. Cover accessories are all telescopic. They snap in place without screws or other fasteners. All accessories have gray prime finish. 10 other colors available.

**non-telescopic accessories**

- Column cover set
- Tamper-proof lock
- Damper (electro galvanized)*
- Wall gasketing*
- Hanging strip*

*See p.3 for details.

**telescopic accessories**

- End Cap
- End Cap-slotted (not shown)
- Splice plate
- Filler sleeve
- Center valve cover †
- Inside corner, 90°
- Outside corner, 90°
- End valve cover, † slotted, 10°
- End valve cover, 10° (not shown)

† Access doors: 6” x 6”. Door location depends on model.
The extraordinary strength of HD Series baseboard makes it ideal for installation in sites where rugged treatment is anticipated. HD Series is especially recommended for rental properties, military housing, schools, institutions and public housing. Its compact size and high output make it suitable for a wide range of new and retrofit applications. In addition to heavy gauge enclosure and support brackets, HD Series baseboard cover is secured in place with square drive screws at each bracket location. Optional 1" and 1\(\frac{1}{4}\)" copper/aluminum elements permit higher flow rates, longer series-loop runs and lower pump loads where required. With the 1\(\frac{1}{4}\)" all-steel element, HD Series is perfect for use in one or two pipe steam systems. HD Series is shipped pre-assembled in individual cartons for rapid installations. Eleven optional colors available. Color paint chips available upon request.

**ORDERING DATA**

**PACKAGING:** Complete two-piece enclosure assembly factory packaged with necessary brackets and hangers. Elements ordered and packaged separately.

**CONSTRUCTION:** Full back panel with interlocking slope-top front panel. Bracket with element guide spot welded to back panel every 24 inches alternating with cabinet spacer welded to back panel every 24 inches giving rigid support to front every 12 inches. There are dimpled anchoring holes every 12 inches. For fastening front to brackets, use 8 x \(\frac{3}{8}\)" self tapping screws with countersunk head as supplied in carton. Pencil proof louvers. Damper optional.

**DEPTH:** 3\(\frac{3}{8}\"

**HEIGHTS:** 8\(\frac{1}{2}\" (one tier), 14\" (one or two tier)

**LENGTHS:** 2', 3', 3\(\frac{1}{2}\', 4', 5', 6', 7', 8'. Other \(\frac{1}{2}\) lengths available to order

**MATERIAL:** 16-gauge steel front cover, 20-gauge back panel.

**FINISH:** Galvannealed (Standard). Decorator colors available to order.

**ELEMENTS:** Choice of five elements. Copper with aluminum fins. Steel with electro-galvanized steel fins. Lengths from 2 to 8 feet. From 710 to 1340 Btu/hr/ft at 200° F water temperature. See p. 30.

**JOINTS:** Telescopic cover accessories eliminate the need to perfectly butt one length of cover to the next. Critical linear and vertical tolerances are eliminated because telescopic assembly absorbs misalignment that might result from uneven floors and walls. Accessories are fastened to cover with pan-head sheet metal screws (supplied by others).
**RATINGS**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Element Type</th>
<th>Tiers of Heating Element</th>
<th>Tube Size and Material</th>
<th>Fin Size and Material (Width x Height x Thickness)</th>
<th>Fins per Foot</th>
<th>Water Flow</th>
<th>Pressure Drop†</th>
<th>Steam 1 PSIG Btu/Hr. Per Foot</th>
<th>HOT WATER RATINGS* BTU/HR.FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD-850</td>
<td>H-1</td>
<td>1/4&quot; copper</td>
<td>3&quot; x 3/4&quot; x .024&quot; aluminum</td>
<td>48</td>
<td>4 GPM</td>
<td>47</td>
<td>4 GPM</td>
<td>525</td>
<td></td>
</tr>
<tr>
<td>HD-850</td>
<td>H-3</td>
<td>1/4&quot; copper</td>
<td>2 1/2&quot; x 2 1/2&quot; x .011&quot; aluminum</td>
<td>55</td>
<td>4 GPM</td>
<td>47</td>
<td>4 GPM</td>
<td>525</td>
<td></td>
</tr>
<tr>
<td>HD-850</td>
<td>H-4</td>
<td>1/4&quot; copper</td>
<td>3&quot; x 2 1/2&quot; x .011&quot; aluminum</td>
<td>48</td>
<td>4 GPM</td>
<td>13</td>
<td>4 GPM</td>
<td>145</td>
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</tr>
<tr>
<td>HD-850</td>
<td>H-5x</td>
<td>1/4&quot; copper</td>
<td>3&quot; x 3/4&quot; x .020&quot; aluminum</td>
<td>48</td>
<td>4 GPM</td>
<td>6</td>
<td>4 GPM</td>
<td>63</td>
<td></td>
</tr>
<tr>
<td>HD-850</td>
<td>H-6X</td>
<td>1/4&quot; IPS steel</td>
<td>3&quot; x 3/4&quot; x .028&quot; aluminized steel</td>
<td>48</td>
<td>4 GPM</td>
<td>3</td>
<td>4 GPM</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>HD-1400</td>
<td>230°F</td>
<td>2&quot; x 2 1/2&quot; x .011&quot; aluminum</td>
<td>48</td>
<td>4 GPM</td>
<td>47</td>
<td>4 GPM</td>
<td>525</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HD-1400</td>
<td>H-1</td>
<td>1/4&quot; copper</td>
<td>2&quot; x 2 1/2&quot; x .011&quot; aluminum</td>
<td>48</td>
<td>4 GPM</td>
<td>47</td>
<td>4 GPM</td>
<td>525</td>
<td></td>
</tr>
<tr>
<td>HD-1400</td>
<td>H-4</td>
<td>1/4&quot; copper</td>
<td>3&quot; x 2 1/2&quot; x .011&quot; aluminum</td>
<td>48</td>
<td>4 GPM</td>
<td>13</td>
<td>4 GPM</td>
<td>145</td>
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<tr>
<td>HD-1400</td>
<td>H-5x</td>
<td>1/4&quot; copper</td>
<td>3&quot; x 3/4&quot; x .020&quot; aluminum</td>
<td>48</td>
<td>4 GPM</td>
<td>6</td>
<td>4 GPM</td>
<td>63</td>
<td>110°F</td>
</tr>
<tr>
<td>HD-1400</td>
<td>H-6X</td>
<td>1/4&quot; IPS steel</td>
<td>3&quot; x 3/4&quot; x .028&quot; aluminized steel</td>
<td>48</td>
<td>4 GPM</td>
<td>3</td>
<td>4 GPM</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>HD-1400</td>
<td>H-1</td>
<td>1/4&quot; copper</td>
<td>2&quot; x 2 1/2&quot; x .011&quot; aluminum</td>
<td>48</td>
<td>4 GPM</td>
<td>47</td>
<td>4 GPM</td>
<td>525</td>
<td></td>
</tr>
<tr>
<td>HD-1400</td>
<td>H-4</td>
<td>1/4&quot; copper</td>
<td>3&quot; x 2 1/2&quot; x .011&quot; aluminum</td>
<td>48</td>
<td>4 GPM</td>
<td>13</td>
<td>4 GPM</td>
<td>145</td>
<td></td>
</tr>
<tr>
<td>HD-1400</td>
<td>H-5x</td>
<td>1/4&quot; copper</td>
<td>3&quot; x 3/4&quot; x .020&quot; aluminum</td>
<td>48</td>
<td>4 GPM</td>
<td>6</td>
<td>4 GPM</td>
<td>63</td>
<td></td>
</tr>
<tr>
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<td>H-6X</td>
<td>1/4&quot; IPS steel</td>
<td>3&quot; x 3/4&quot; x .028&quot; aluminized steel</td>
<td>48</td>
<td>4 GPM</td>
<td>3</td>
<td>4 GPM</td>
<td>41</td>
<td></td>
</tr>
</tbody>
</table>

* Based on 65°F entering air temperature. † Millinches per foot.

**Note:** Ratings are based on active finned length (3" less than overall length), and include 15% heating effect factor. Use 4 GPM rating only when flow is known to be equal to or greater than 4 GPM; otherwise 1 GPM ratings must be used.

---

**ACCESSORIES**

- 2" OR 4" LEFT END CAP
- 90° INSIDE CORNER VALVE COVER
- 10" CENTER VALVE COVER
- 2" 3", OR 4" SPLICE PLATE
- 10" VALVE COVER (SLOTTED or UNSLOTTED)

**LC SERIES 16 GAUGE SLOPE TOP BASEBOARD**

LC-850 and LC-1400 do not have a backpanel. One piece wall mounting bracket/element holder is ordered separately from cover, therefore bracket spacing is determined by system design and installation. LC cover hangs on top and snaps on the bottom of bracket, similar to regular baseboard. LC Series is ideal for use in replacement applications where you want to use the existing, installed element and just replace the cover. Output ratings are the same as HD series. Contact Slant/Fin for more detailed information. Eleven optional colors available. Color paint chips available upon request.
350 Series baseboard combines, for the first time, the compactness and economy of baseboard with the high output and heavy-duty construction needed for "in-between" applications. Optional 1" and 1¼" copper/aluminum elements permit higher flow rates, longer series-loop runs and lower pump loads where required. With the 1¼" all-steel element, 350 Series is perfect for use in one or two pipe steam systems. 350 Series is factory assembled and shipped in individual cartons for rapid installations.

- Two heights for one or two heating element tiers
- Nu-White enamel finish standard
- Choice of 5 copper or steel heating elements
- Fully assembled and factory packaged
- Room control damper optional
- Extra backbone
- Strong front panel resists kicks and dents
- Optional 16-gauge front cover


ORDERING DATA

PACKAGING: Complete 350 Series baseboard enclosures are factory assembled and individually packaged. Cover and heating elements are packaged and sold separately. Cover includes brackets and expansion cradles. Cover may be ordered with optional fully modulating damper.

CONSTRUCTION: Back panel, front cover and optional damper fully assembled at factory, ready to fasten to the wall.

DEPTH: 3½"
HEIGHT: 9¾" (one tier) and 13¾" (one or two tier)
LENGTHS: 2', 3', 3½', 4', 5', 6', 7', 8'.
MATERIAL: 19-gauge steel or 16-gauge galvannealed steel front cover. 24-gauge back cover. 17-gauge brackets.
FINISH: 19-gauge model: Nu-White finish. 16-gauge model: Galvannealed finish. Decorator colors available.

ELEMENT SUPPORT: Self-adjusting, polypropylene expansion cradles are positioned over support brackets, allowing quiet expansion.


<table>
<thead>
<tr>
<th>Model</th>
<th>Element</th>
<th>&quot;A&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>351</td>
<td>H-1</td>
<td>3 ¾&quot;</td>
</tr>
<tr>
<td>353</td>
<td>H-3</td>
<td>3 ¾&quot;</td>
</tr>
<tr>
<td>354</td>
<td>H-4</td>
<td>3 ¾&quot;</td>
</tr>
<tr>
<td>355</td>
<td>H-5x</td>
<td>3 ¾&quot;</td>
</tr>
<tr>
<td>356</td>
<td>H-6x</td>
<td>3 ¾&quot;</td>
</tr>
</tbody>
</table>
### RATINGS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Element Type</th>
<th>Tiers of Heating Element &amp; Material</th>
<th>Fin Size and Material (Width x Height x Thickness)</th>
<th>Fins Per Foot</th>
<th>Water Flow</th>
<th>Pressure Drop †</th>
<th>Steam 1 PSI/BrHr/Per Foot</th>
<th>HOT WATER RATINGS* BTU/HR./FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>351-10</td>
<td>Single-tier</td>
<td>H-1</td>
<td>3/4&quot; copper</td>
<td>48</td>
<td>1 GPM</td>
<td></td>
<td>230</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
</tr>
<tr>
<td>353-10</td>
<td>Single-tier</td>
<td>H-3</td>
<td>3/4&quot; copper</td>
<td>55</td>
<td>1 GPM</td>
<td></td>
<td>210</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
</tr>
<tr>
<td>354-10</td>
<td>Single-tier</td>
<td>H-4</td>
<td>1&quot; copper</td>
<td>48</td>
<td>1 GPM</td>
<td></td>
<td>210</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
</tr>
<tr>
<td>355-10</td>
<td>Single-tier</td>
<td>H-5X</td>
<td>1-1/4&quot; copper</td>
<td>48</td>
<td>1 GPM</td>
<td></td>
<td>220</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
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<tr>
<td>356-10</td>
<td>Single-tier</td>
<td>H-6X</td>
<td>1-1/4&quot; IPS steel</td>
<td>48</td>
<td>1 GPM</td>
<td></td>
<td>190</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
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<tr>
<td>350-14</td>
<td>Single-tier</td>
<td>H-1</td>
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<td>48</td>
<td>1 GPM</td>
<td></td>
<td>245</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
</tr>
<tr>
<td>353-14</td>
<td>Single-tier</td>
<td>H-3</td>
<td>3/4&quot; copper</td>
<td>55</td>
<td>1 GPM</td>
<td></td>
<td>230</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
</tr>
<tr>
<td>354-14</td>
<td>Single-tier</td>
<td>H-4</td>
<td>1&quot; copper</td>
<td>48</td>
<td>1 GPM</td>
<td></td>
<td>220</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
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<tr>
<td>355-14</td>
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<td>H-5x</td>
<td>1-1/4&quot; copper</td>
<td>48</td>
<td>1 GPM</td>
<td></td>
<td>220</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
</tr>
<tr>
<td>356-14</td>
<td>Single-tier</td>
<td>H-6x</td>
<td>1-1/4&quot; IPS steel</td>
<td>48</td>
<td>1 GPM</td>
<td></td>
<td>220</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
</tr>
<tr>
<td>351-14</td>
<td>Two-tier</td>
<td>H-1</td>
<td>3/4&quot; copper</td>
<td>48</td>
<td>1 GPM</td>
<td></td>
<td>249</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
</tr>
<tr>
<td>353-14</td>
<td>Two-tier</td>
<td>H-3</td>
<td>3/4&quot; copper</td>
<td>55</td>
<td>1 GPM</td>
<td></td>
<td>230</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
</tr>
<tr>
<td>354-14</td>
<td>Two-tier</td>
<td>H-4</td>
<td>1&quot; copper</td>
<td>48</td>
<td>1 GPM</td>
<td></td>
<td>220</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
</tr>
<tr>
<td>355-14</td>
<td>Two-tier</td>
<td>H-5x</td>
<td>1-1/4&quot; copper</td>
<td>48</td>
<td>1 GPM</td>
<td></td>
<td>220</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
</tr>
<tr>
<td>356-14</td>
<td>Two-tier</td>
<td>H-6x</td>
<td>1-1/4&quot; IPS steel</td>
<td>48</td>
<td>1 GPM</td>
<td></td>
<td>220</td>
<td>110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F</td>
</tr>
</tbody>
</table>

* Based on 65°F entering water temperature
† Millimeters per foot

Note: Ratings are based on active finned length (3" less than overall length), and include 15% heating effect factor. Use 4 GPM ratings only when flow is known to be equal to or greater than 4 GPM; otherwise 1 GPM ratings must be used.

---

### ACCESSORIES

Matching snap-on accessories let you speed through virtually any job condition without custom cutting and fitting. Piano hinged accessories permit easy access with flush or recessed installations.

#### Telescopic accessories

All accessories are available for 10" and 14" high cabinets.
R SERIES
FLAT-TOP ENCLOSURE

MODELS RL-10, RT-14, RT-21, RT-28

CONSTRUCTION: Single piece cover mounts on wall brackets.

DEPTH: 5½”

HEIGHTS: 9½”, 14” (one tier), 21” (one or two tier), 28” (up to three tier).


MATERIAL: 18-gauge cover, 16 and 14-ga optional.

FINISH: Galvannealed (Standard). Decorator colors available to order. Anodized architectural aluminum grille optional.

WALL BRACKETS/HANGERS: Order separately, specify BKT (bracket only) or BKT ASSY (bracket complete with SC hangers) followed by cover stock number and quantity.


JOINTS: Slip joint connectors align cover sections which butt to one another, providing a near seamless joint. Use of telescopic accessories eliminates the need to perfectly butt one length of cover to the next. Critical linear and vertical tolerances are eliminated because telescopic assembly absorbs misalignment that might result from uneven floors and walls.

OTHER OPTIONS

Louver locations
R-Series enclosures may be ordered with these alternate louver locations:
Model RF: Louvered front (N/A on RL-10). Aluminum grille not available for front outlet.

Damper, field installed
(Not available with aluminum grille)
Back panel.
Access door, field installed.
Inlet grille.
Architectural aluminum grille.
Eleven optional custom colors available.
### RATINGS

**RT-28**
- **One-tier element**: 28”
- **Element Type**: 1” steel
  - **Obs**: 3280 1512 3520 1800 1290 1136
- **Alum**: 3280 1512 3520 1800 1290 1136

**RT-28**
- **Three-tier element**: 28”
- **Element Type**: 1” steel
  - **Alum**: 3280 1512 3520 1800 1290 1136

**RT-21**
- **One-tier element**: 21”
- **Element Type**: 1½” steel
  - **Steel**: 3280 1512 3520 1800 1290 1136
- **Alum**: 3280 1512 3520 1800 1290 1136

**RT-14**
- **Enclosure**: 21”
- **Element Type**: 1½” steel
  - **Steel**: 3280 1512 3520 1800 1290 1136
- **Alum**: 3280 1512 3520 1800 1290 1136

**RT-10**
- **Element Type**: 1½” steel
  - **Steel**: 3280 1512 3520 1800 1290 1136
- **Alum**: 3280 1512 3520 1800 1290 1136

**HOT WATER RATINGS**
- **BTU/HR./FT. (Flow Rate 3 FL./Sec.)**
- **Temperature**: 170˚F, 200˚F, 220˚F

**ACCESSORIES**

- **End Cap (R or L)**
- **Filter Sleeve**
- **Outside Corner**
- **Center Valve Cover**
- **Splice Plate**
- **End Valve Cover**
- **Slotted End Cap**

† Access doors: 6” x 6”. Door location depends on model.

---

*Based on 65°F entering air temperature.
Note: Ratings are based on active finned length (5-1/4" less than overall length.)
CONSTRUCTION: Single piece cover mounts on floor pedestals.

DEPTH: 5 1/2"

INSTALLED HEIGHTS: 11" (one tier), 18" (one or two tier), 25" (up to three tier)

LENGTHS: 2', 3', 3 1/2', 4', 5', 6', 7', 8'. Other 1/2' lengths available to order.


PEDESTAL BRACKETS/HANGERS: Order separately. Adjustable height floor pedestal supports the elements and enclosure. Uses standard SC hangers. Large hole in base to bring supply and return piping into cover without showing. Stainless steel escutcheon around base for neat finish.

ORDERING DATA

<table>
<thead>
<tr>
<th>ELEMENT</th>
<th>RECOMMENDED NUMBER OF PEDESTALS FOR GIVEN LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-532</td>
<td>2-5 ft. 6-7 ft. 8 ft.</td>
</tr>
<tr>
<td>S-540</td>
<td>2-5 ft. 6-7 ft. 8 ft.</td>
</tr>
<tr>
<td>C-340</td>
<td>2-5 ft. 6-7 ft. 8 ft.</td>
</tr>
<tr>
<td>C-440</td>
<td>2-5 ft. 6-7 ft. 8 ft.</td>
</tr>
<tr>
<td>C-540</td>
<td>2-5 ft. 6-7 ft. 8 ft.</td>
</tr>
</tbody>
</table>

NOTE: When using end brackets on short run supply and return pipes, additional bracket(s) may be required.

OPTIONS

Heavier gauge cover.
Access door, field installed.
Architectural aluminum grille.
Eleven decorator colors available.
### RATINGS

<table>
<thead>
<tr>
<th>Cover Type</th>
<th>Element Type</th>
<th>Fin Size &amp; Material</th>
<th>Fins Per Foot</th>
<th>Steam 1 PSI Btu/Hr Per Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-7 7&quot;</td>
<td>S-532</td>
<td>1/8&quot; steel</td>
<td>4&quot; steel</td>
<td>32 1290 258 336 426 516 581 684 787 890 1006 1109 1226 1355</td>
</tr>
<tr>
<td></td>
<td>S-540</td>
<td>1/8&quot; steel</td>
<td>4&quot; steel</td>
<td>40 1390 278 362 459 556 626 737 848 959 1084 1195 1321 1460</td>
</tr>
<tr>
<td></td>
<td>C-340</td>
<td>3/4&quot; copper</td>
<td>4&quot; aluminium</td>
<td>40 1579 316 411 521 632 711 837 963 1090 1232 1358 1500 1658</td>
</tr>
<tr>
<td></td>
<td>C-440</td>
<td>1&quot; copper</td>
<td>4&quot; aluminium</td>
<td>40 1670 334 454 551 668 752 885 1019 1152 1303 1436 1597 1754</td>
</tr>
<tr>
<td></td>
<td>C-540</td>
<td>1/8&quot; copper</td>
<td>4&quot; aluminium</td>
<td>40 1640 328 426 541 656 738 890 1000 1132 1279 1410 1558 1722</td>
</tr>
<tr>
<td>FS-14 One-tier element 14&quot;</td>
<td>S-532</td>
<td>1/8&quot; steel</td>
<td>4&quot; steel</td>
<td>32 1330 266 346 439 532 599 705 811 918 1037 1144 1264 1397</td>
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<tr>
<td></td>
<td>S-540</td>
<td>1/8&quot; steel</td>
<td>4&quot; steel</td>
<td>40 1540 308 400 508 616 693 816 939 1063 1201 1324 1463 1617</td>
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<tr>
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<td>C-340</td>
<td>3/4&quot; copper</td>
<td>4&quot; aluminium</td>
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<td>C-440</td>
<td>1&quot; copper</td>
<td>4&quot; aluminium</td>
<td>40 1890 378 492 624 756 851 1002 1153 1304 1474 1625 1796 1985</td>
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<td>C-540</td>
<td>1/8&quot; copper</td>
<td>4&quot; aluminium</td>
<td>40 1850 370 481 611 740 833 981 1129 1277 1443 1591 1758 1943</td>
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<tr>
<td>FS-14 Two-tier element 14&quot;</td>
<td>S-532</td>
<td>1/8&quot; steel</td>
<td>4&quot; steel</td>
<td>32 1850 370 481 611 740 833 981 1129 1277 1443 1591 1758 1943</td>
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<tr>
<td></td>
<td>S-540</td>
<td>1/8&quot; steel</td>
<td>4&quot; steel</td>
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<td>C-340</td>
<td>3/4&quot; copper</td>
<td>4&quot; aluminium</td>
<td>40 2311 462 601 763 925 1040 1225 1410 1583 1805 1988 2196 2427</td>
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<tr>
<td></td>
<td>C-440</td>
<td>1&quot; copper</td>
<td>4&quot; aluminium</td>
<td>40 2450 490 637 809 980 1103 1299 1496 1690 1911 2107 2328 2573</td>
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<tr>
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<td>C-540</td>
<td>1/8&quot; copper</td>
<td>4&quot; aluminium</td>
<td>40 2400 480 624 792 960 1080 1272 1464 1656 1872 2064 2280 2520</td>
</tr>
<tr>
<td>FS-21 One-tier element 21&quot;</td>
<td>S-532</td>
<td>1/8&quot; steel</td>
<td>4&quot; steel</td>
<td>32 1610 322 419 531 644 725 853 982 1111 1256 1385 1530 1691</td>
</tr>
<tr>
<td></td>
<td>S-540</td>
<td>1/8&quot; steel</td>
<td>4&quot; steel</td>
<td>40 1675 335 435 553 670 754 888 1022 1156 1307 1441 1591 1759</td>
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<tr>
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<td>C-340</td>
<td>3/4&quot; copper</td>
<td>4&quot; aluminium</td>
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<tr>
<td></td>
<td>C-440</td>
<td>1&quot; copper</td>
<td>4&quot; aluminium</td>
<td>40 2130 426 554 703 852 959 1129 1299 1470 1661 1832 2024 2237</td>
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<tr>
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<td>C-540</td>
<td>1/8&quot; copper</td>
<td>4&quot; aluminium</td>
<td>40 2085 417 542 688 832 938 1105 1272 1439 1626 1793 1981 2189</td>
</tr>
<tr>
<td>FS-21 Two-tier element 21&quot;</td>
<td>S-532</td>
<td>1/8&quot; steel</td>
<td>4&quot; steel</td>
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<tr>
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<td>S-540</td>
<td>1/8&quot; steel</td>
<td>4&quot; steel</td>
<td>40 2245 449 584 741 898 1010 1210 1409 1609 1841 2033 2277 2571</td>
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<tr>
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<td>C-340</td>
<td>3/4&quot; copper</td>
<td>4&quot; aluminium</td>
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<tr>
<td></td>
<td>C-440</td>
<td>1&quot; copper</td>
<td>4&quot; aluminium</td>
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<td>C-540</td>
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<td>4&quot; aluminium</td>
<td>40 2750 550 715 908 1100 1238 1458 1678 1897 2145 2365 2688 2988</td>
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<tr>
<td>FS-21 Three-tier element 21&quot;</td>
<td>S-532</td>
<td>1/8&quot; steel</td>
<td>4&quot; steel</td>
<td>32 2380 476 619 785 952 1071 1261 1452 1642 1856 2047 2261 2499</td>
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<td>S-540</td>
<td>1/8&quot; steel</td>
<td>4&quot; steel</td>
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<td>C-340</td>
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<td>4&quot; aluminium</td>
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<td>C-440</td>
<td>1&quot; copper</td>
<td>4&quot; aluminium</td>
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<td>C-540</td>
<td>1/8&quot; copper</td>
<td>4&quot; aluminium</td>
<td>40 3120 624 811 1030 1248 1404 1654 1903 2153 2434 2683 2964 3276</td>
</tr>
</tbody>
</table>

*Based on 60°F entering air temperature.

Note: Ratings are based on active finned length (5-1/4" less than overall length.)

### ACCESSORIES

- **END CAP (R or L)** (slotted optional)
- **SPICE PLATE**
- **90° OUTSIDE CORNER** (custom angle)
- **CENTER VALVE COVER**
- **FILLER SLEEVE**
- **90° INSIDE CORNER** (custom angle)
- **END VALVE COVER (R or L)** (slotted optional)

### TELESCOPIC ACCESSORIES

† Access doors: 6" x 6". Door location depends on model.
**TBG SERIES**
**SLOPE-TOP/BOTTOM ENCLOSURES**

**ORDERING DATA**

**CONSTRUCTION:** Single piece cover mounts on wall brackets.

**DEPTH:** $5\frac{1}{4}$" 

**HEIGHTS:** 17" (one tier), 24" (one or two tier) 

**LENGTHS:** 2', 3', 3\(\frac{3}{4}\)', 4', 5', 6', 7', 8'. Other \(\frac{1}{2}\)' lengths available to order 

**MATERIAL:** 16-ga cover standard, 14-ga optional. 

**FINISH:** Galvannealed (Standard). Decorator colors available to order. Anodized architectural aluminum grille optional. 

**WALL BRACKET/HANGERS:** Order separately, specify BKT (bracket only) or BKT ASSY (bracket complete with SC hangers) followed by cover stock number and quantity. 

<table>
<thead>
<tr>
<th>Element</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-532</td>
<td>2-5 ft.</td>
<td>6-7 ft.</td>
<td>8 ft.</td>
</tr>
<tr>
<td>S-540</td>
<td>2-5 ft.</td>
<td>6-7 ft.</td>
<td>8 ft.</td>
</tr>
<tr>
<td>S-832</td>
<td>2-5 ft.</td>
<td>6 ft.</td>
<td>7-8 ft.</td>
</tr>
<tr>
<td>C-340</td>
<td>2-5 ft.</td>
<td>6-7 ft.</td>
<td>8 ft.</td>
</tr>
<tr>
<td>C-440</td>
<td>2-5 ft.</td>
<td>6-7 ft.</td>
<td>8 ft.</td>
</tr>
<tr>
<td>C-540</td>
<td>2-5 ft.</td>
<td>6-7 ft.</td>
<td>8 ft.</td>
</tr>
</tbody>
</table>

**OPTIONS**

- **14-gauge cover.**
- **Access door, field installed.**
- **Architectural aluminum grille.**
- **Damper, field installed** (not available with aluminum grille)
- **Eleven decorator colors available.**
### RATINGS

<table>
<thead>
<tr>
<th>Cover Type</th>
<th>Enclosure Height</th>
<th>Element Type</th>
<th>Tube Size &amp; Material</th>
<th>Fin Size &amp; Material</th>
<th>Fins Per Foot</th>
<th>Steam 1 PSI Btu/Hr. Per Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>TBG-17</td>
<td>17&quot;</td>
<td>S-532</td>
<td>5/8&quot; steel</td>
<td>5/8&quot; steel</td>
<td>40</td>
<td>1250</td>
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<td></td>
<td>S-540</td>
<td>1&quot; steel</td>
<td>5/8&quot; steel</td>
<td>40</td>
<td>1344</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-832</td>
<td>2&quot; steel</td>
<td>5/8&quot; steel</td>
<td>40</td>
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</tr>
<tr>
<td></td>
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<td>C-340</td>
<td>3/8&quot; copper</td>
<td>5/8&quot; alum.</td>
<td>40</td>
<td>1595</td>
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<tr>
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<td>C-440</td>
<td>1&quot; copper</td>
<td>5/8&quot; alum.</td>
<td>40</td>
<td>1690</td>
</tr>
<tr>
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<td></td>
<td>C-540</td>
<td>1 1/4&quot; copper</td>
<td>5/8&quot; alum.</td>
<td>40</td>
<td>1656</td>
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<tr>
<td>TBG-24 one-tier element</td>
<td>24&quot;</td>
<td>S-532</td>
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<td>5/8&quot; steel</td>
<td>40</td>
<td>1460</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1&quot; steel</td>
<td>5/8&quot; steel</td>
<td>40</td>
<td>1505</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-832</td>
<td>2&quot; steel</td>
<td>5/8&quot; steel</td>
<td>40</td>
<td>1345</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>3/8&quot; copper</td>
<td>5/8&quot; alum.</td>
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<td>1798</td>
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<td>1&quot; copper</td>
<td>5/8&quot; alum.</td>
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<tr>
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<td>C-540</td>
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</tr>
<tr>
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<td>C-340</td>
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<td>5/8&quot; alum.</td>
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<td>5/8&quot; alum.</td>
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<td>2480</td>
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<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>1 1/4&quot; copper</td>
<td>5/8&quot; alum.</td>
<td>40</td>
<td>2427</td>
</tr>
</tbody>
</table>

### ACCESSORIES

- **END CAP** (slotted optional)
- **splice plate**
- **center valve cover**
- **filler sleeve**
- **end valve cover** (R or L) (slotted optional)

### TELESCOPIC ACCESSORIES

† Access doors: 6" x 6". Door location depends on model.
The industry standard for heavy-duty, high-output baseboard heating, Multi/Pak 80 is trusted by contractors and engineers for its performance and durability. Multi/Pak 80 combines the compactness, economy, and ease of installation of baseboard with the high capacity, rugged construction and design versatility needed for industrial and commercial use. Multi/Pak 80 is engineered for maximum strength throughout. Dent-proof 18-gauge front panels. Massive steel brackets. Heavy wall tubing with full mill-rated bursting strength. For fast, economical installation, Multi/Pak 80 enclosures are factory pre-assembled in “Zip Strip” cartons. Factory pre-cut lengths of 2 to 14 feet combine with snap-on telescoping accessories to produce wall-to-wall installations without cutting.

- Galvanized steel cover resists rust
- Engineered for maximum strength and good looks
- 18-gauge front panel resists damage
- Massive steel brackets
- Fully modulating damper
- Choice of 5 interchangeable heating elements
- Packaged in individual Zip-Strip cartons
- Modern replacement for hot water or steam radiators

INTERCHANGEABLE HEATING ELEMENTS:
Available with a choice of five heating elements, Multi/Pak 80 meets a wide variety of heating requirements. With the optional high-output 3/4” copper/aluminum element, it is the perfect alternative to costly, bulky commercial enclosures in “problem areas” of high heat loss. Optional 1” and 1 1/4” copper/aluminum elements permit higher flow rates, longer series-loop runs and lower pump loads. The 1 1/4” elements are suitable for use in one or two pipe steam systems.

ORDERING DATA


CONSTRUCTION: Back panel, front cover and damper fully assembled at factory, ready to fasten to the wall.

DEPTH: 3 1/2”
HEIGHT: 8 7/8”

MATERIAL: 18-gauge galvanized steel front cover. 21-gauge galvanized steel back cover. 16-gauge brackets.

FINISH: Nu-White (Standard). Decorator colors available.

ELEMENT SUPPORT: Self-adjusting, polypropylene expansion cradles are positioned over support brackets, allowing quiet expansion.

### RATINGS

<table>
<thead>
<tr>
<th>BB Model Number</th>
<th>Element Type</th>
<th>Tube Size and Material</th>
<th>Fin Size and Material (Width x Height x Thickness)</th>
<th>Fins per Foot</th>
<th>Water Flow</th>
<th>Pressure Drop†</th>
<th>Steam 1 PSI ‡ Btu/Hr. Per Foot</th>
<th>HOT WATER RATINGS ‡ BTU/HR/FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-D H-1</td>
<td>3⁄4&quot; copper</td>
<td>3 x 3/16&quot; x .024&quot; aluminum</td>
<td>48</td>
<td>1 GPM</td>
<td>47</td>
<td>210°F</td>
<td>290°F</td>
<td>360°F</td>
</tr>
<tr>
<td>B3-A H-3</td>
<td>3⁄4&quot; copper</td>
<td>2½&quot; x 2½&quot; x .011&quot; aluminum</td>
<td>55</td>
<td>1 GPM</td>
<td>47</td>
<td>200°F</td>
<td>270°F</td>
<td>340°F</td>
</tr>
<tr>
<td>80-D H-4</td>
<td>1&quot; copper</td>
<td>3&quot; x 2½&quot; x .011&quot; aluminum</td>
<td>48</td>
<td>1 GPM</td>
<td>13</td>
<td>200°F</td>
<td>270°F</td>
<td>340°F</td>
</tr>
<tr>
<td>80-D H-5X</td>
<td>1¼&quot; copper</td>
<td>3&quot; x 3½&quot; x .020&quot; aluminum</td>
<td>48</td>
<td>1 GPM</td>
<td>6</td>
<td>190°F</td>
<td>260°F</td>
<td>330°F</td>
</tr>
<tr>
<td>80-D H-6X</td>
<td>1½&quot; IPS</td>
<td>3½&quot; x 3½&quot; x .028&quot; aluminized steel</td>
<td>48</td>
<td>1 GPM</td>
<td>3</td>
<td>990</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

† Millinches per foot. * Ratings at 140°F and lower temperatures determined by multiplying 150°F rating by the applicable factor specified in Table E in the Is=B=R Testing and Rating Standard for Baseboard radiation.
‡ With 65°F entering air.

**NOTE:** Ratings are for element installed as per drawing shown in “Dimensional Data” window (open “Dimensional Data” window to view) with damper open, with expansion cradles. Ratings are based on active finned length (5” to 6” less than overall length)and include 15% heating effect factor.

Ratings are also based on:
- B1-A: 3/4" nominal copper tubing with 3" x 3-1/4" x .024" aluminum fins spaced 48 per linear foot (unpainted);
- B3-A2: 3/4" nominal copper tubing with 2-3/4" x 2-1/2" x .011" aluminum fins spaced 55 per linear foot (unpainted);
- B4-A3: 1" nominal copper tubing with 3" x 2-1/2" x .011" aluminum fins spaced 48 per linear foot (unpainted);
- B5-AX: 1-1/4" nominal copper tubing with 3" x 3-1/4" x .020" aluminum fins spaced 48 per linear foot (unpainted);
- B6-AX: 1-1/4" IPS steel with 3" x 3-1/4" x .028" aluminized steel fins spaced 48 per linear foot (unpainted);
- Use 4 gpm ratings only when flow is known to be equal to or greater than 4 gpm; otherwise, 1 gpm ratings must be used.

### ACCESSORIES

Over 20 easy-to-install accessories are available in a variety of hinged, non-hinged, telescoping, snap-on and custom angle models to complete any installation.

![Image of accessories](image)

**additional accessories**

- Splice Plate, 2"
- Valve cover*, 8"
- Valve cover, slotted*, 8"
- Inside corner*, custom angle
- Outside corner*, custom angle
- Center valve cover*, 8"
- Zone valve box
- Back panel for inside corner
- Column cover set

*Telescopic accessories

### TELESCOPIC ACCESSORIES

- Filler Sleeve
- Hinged End Cap
- Hinged Wall Trim
- Hinged Valve Cover
- Hinged Inside Corner
- Outside Corner
**F & EM SERIES**

**LOUVERED AND EXPANDED METAL ELEMENT COVERS**

F and EM Series are industrial covers where the cover hangs directly on the 4-1/4" by 4-1/4" finned tube element. Available from the factory in a protective galvanized finish or baked enamel over the protective galvanized finish.

---

**ORDERING DATA**

**CONSTRUCTION:** Single piece cover attaches directly to element.

**DEPTH:** 4 3/8".

**HEIGHTS:** 4 3/4" (one tier), 11 3/4" (two tier), 18 3/4" (three tier).

**LENGTHS:** 2', 3', 3 1/4', 4', 5', 6', 7', 8'. Other 1/2' lengths available to order.

**MATERIAL:** F: 18-ga cover. EM: 16-ga cover.

**FINISH:** Galvannealed (Standard). Decorator colors available.

**WALL BRACKETS/HANGERS:** Order separately, specify BKT (bracket only) or BKT ASSY (bracket complete with SC hangers) followed by cover stock number and quantity.


---

**JOINTS:** Telescopic accessories eliminate the need to perfectly butt one length of cover to the next. Critical linear and vertical tolerances are eliminated because telescopic assembly absorbs misalignment that might result from uneven floors and walls.

<table>
<thead>
<tr>
<th>Element</th>
<th>2 ft</th>
<th>3 ft</th>
<th>4 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-532</td>
<td>2-4 ft</td>
<td>5-7 ft</td>
<td>8 ft</td>
</tr>
<tr>
<td>S-540</td>
<td>2-4 ft</td>
<td>5-7 ft</td>
<td>8 ft</td>
</tr>
<tr>
<td>S-832</td>
<td>2-4 ft</td>
<td>5-6 ft</td>
<td>7-8 ft</td>
</tr>
<tr>
<td>C-340</td>
<td>2-5 ft</td>
<td>6-8 ft</td>
<td>—</td>
</tr>
<tr>
<td>C-440</td>
<td>2-5 ft</td>
<td>6-8 ft</td>
<td>—</td>
</tr>
<tr>
<td>C-540</td>
<td>2-5 ft</td>
<td>6-8 ft</td>
<td>—</td>
</tr>
</tbody>
</table>
## RATINGs

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Enclosure Height</th>
<th>Element Type</th>
<th>Tube Size and Material</th>
<th>Fin Size and Material</th>
<th>Fins Per Foot</th>
<th>Steam 1 PSI* Blu./HR. Per Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-5</td>
<td>4½”</td>
<td>C-540</td>
<td>1” copper</td>
<td>1” copper</td>
<td>32</td>
<td>250 325 413 500 663 763 862 975 1075 1188 1313</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1½” copper</td>
<td>1½” copper</td>
<td>40</td>
<td>328 348 422 512 576 678 863 998 1101 1216 1344</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>2” steel</td>
<td>2” steel</td>
<td>40</td>
<td>266 333 422 512 576 678 863 998 1101 1216 1344</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-832</td>
<td>2” steel</td>
<td>2” steel</td>
<td>40</td>
<td>266 333 422 512 576 678 863 998 1101 1216 1344</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>2½” copper</td>
<td>2½” copper</td>
<td>40</td>
<td>320 406 515 624 702 827 951 1077 1217 1341 1482</td>
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<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>3” copper</td>
<td>3” copper</td>
<td>40</td>
<td>330 429 545 660 743 875 1007 1139 1287 1419 1568</td>
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<td></td>
<td></td>
<td>C-440</td>
<td>3½” copper</td>
<td>3½” copper</td>
<td>40</td>
<td>342 431 547 663 745 878 1010 1143 1292 1424 1574</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>4” copper</td>
<td>4” copper</td>
<td>40</td>
<td>342 431 547 663 745 878 1010 1143 1292 1424 1574</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>4½” copper</td>
<td>4½” copper</td>
<td>40</td>
<td>342 431 547 663 745 878 1010 1143 1292 1424 1574</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>5” copper</td>
<td>5” copper</td>
<td>40</td>
<td>342 431 547 663 745 878 1010 1143 1292 1424 1574</td>
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<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>5½” copper</td>
<td>5½” copper</td>
<td>40</td>
<td>342 431 547 663 745 878 1010 1143 1292 1424 1574</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>6” copper</td>
<td>6” copper</td>
<td>40</td>
<td>342 431 547 663 745 878 1010 1143 1292 1424 1574</td>
</tr>
</tbody>
</table>

## ACCESSORIES

### ACCESSORIES

<table>
<thead>
<tr>
<th>Tube Style</th>
<th>90° INSIDE CORNER</th>
<th>90° OUTSIDE CORNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Cap</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slotted End Cap</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filler Sleeve</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Splice Plate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outside Corner</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inside Corner</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### FILLER SLEEVE

- **FILLER SLEEVE**
- **END CAP (R or L)** (slotted optional)

### TELESCOPIC ACCESSORIES

- **TELESCOPIC ACCESSORIES**

---

* Based on 65°F entering air temperature. **Note:** Ratings are based on active finned length (5-1/4” less than overall length).
STRONGER, EASY TO JOIN ELEMENTS

Slant/Fin makes 12 types of fin-tube which may be used with the various enclosures shown in this catalog. Instead of light-wall tubing, Slant/Fin uses only copper seamless-drawn tubing or Schedule 40 steel pipe. Each fin has a tongue-and-groove collar which interlocks with the next fin for accurate and uniform spacing and prevents fins from twisting loose. This full wall thickness and strength of copper tubing and IPS steel pipe are maintained by forcing tubing through undersized fin holes under high hydraulic pressure. A force-fit mechanical bond is attained which maintains maximum heat transfer indefinitely.

Compact models (E-75, H-3 and H-4) feature double bent aluminum fins, providing extra heating surface in a slimmer profile. Edges of each fin are wedged against the next. Fins reinforce each other - won’t be crushed, bent or twisted. End fins are of plated steel for extra ruggedness.

Expanded copper tubing ends eliminate couplings, reduce soldering. Steel elements are factory threaded at both ends.

ORDERING DATA

PACKAGING: Factory packaged in individual cartons (except E-75 which is packaged 3 elements to a carton). “E” and “H” elements include plastic expansion cradles.

LENGTHS: Precut standard lengths
S and C Series: 2, 3, 3\(\frac{1}{2}\), 4, 5, 6, 7, 8, 9, 10, 11, 12 feet. (Canada: 2 to 8 feet) (C-340 up to 10 ft.)
E and H Series: 2, 3, 3\(\frac{1}{2}\), 4, 5, 6, 7, 8 feet.

FINISH: Copper/aluminum elements - natural finish. Steel elements - natural finish.

M-1 Expansion Hanger:
Specify for bare element installations.
## Bare Element Ratings

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Tube Size and Material</th>
<th>Fin Size and Material</th>
<th>Fins per Foot</th>
<th>No. of Tiers 7&quot; cl</th>
<th>Pressures Drop</th>
<th>Steam 1 PSI Btu/ft Per Foot</th>
<th>Hot Water Ratings* BTU/HR/FT. (Flow Rate 3 Ft./Sec.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Width x Height x Thickness</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-532</td>
<td>1/4&quot; IPS steel</td>
<td>4 x 4 x 0.024&quot;</td>
<td>32</td>
<td>1</td>
<td>1080</td>
<td>216 281 356 432 486 572 659 745 842 929 1026 1134</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>electro-gal. steel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-540</td>
<td>1/4&quot; IPS steel</td>
<td>4 x 4 x 0.024&quot;</td>
<td>40</td>
<td>1</td>
<td>1200</td>
<td>230 300 370 460 540 640 730 830 940 1030 1140 1260</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>electro-gal. steel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-832</td>
<td>1/4&quot; IPS steel</td>
<td>4 x 4 x 0.024&quot;</td>
<td>32</td>
<td>1</td>
<td>1130</td>
<td>226 294 373 452 509 599 689 780 881 972 1074 1187</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>electro-gal. steel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-340</td>
<td>3/8&quot; copper</td>
<td>4 x 4 x 0.020&quot;</td>
<td>40</td>
<td>1</td>
<td>1610</td>
<td>322 419 531 644 725 853 982 1111 1256 1385 1530 1691</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-440</td>
<td>1&quot; copper</td>
<td>4 x 4 x 0.020&quot;</td>
<td>40</td>
<td>1</td>
<td>1600</td>
<td>300 400 500 610 720 850 980 1100 1250 1380 1520 1680</td>
<td></td>
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<td></td>
<td>aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C-540</td>
<td>1/2&quot; copper</td>
<td>4 x 4 x 0.020&quot;</td>
<td>40</td>
<td>1</td>
<td>1600</td>
<td>300 400 500 610 720 850 980 1100 1250 1380 1520 1680</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H-1</td>
<td>3/4&quot; copper</td>
<td>3 x 3 x 0.024&quot;</td>
<td>48</td>
<td>1</td>
<td>218</td>
<td>283 360 436 491 578 665 752 850 937 1036 1145</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H-5X</td>
<td>1/2&quot; copper</td>
<td>3 x 3 x 0.020&quot;</td>
<td>48</td>
<td>1</td>
<td>188</td>
<td>244 310 376 423 498 573 649 733 808 893 987</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H-6X</td>
<td>1/2&quot; IPS steel</td>
<td>3 x 3 x 0.028&quot;</td>
<td>48</td>
<td>1</td>
<td>850</td>
<td>170 221 281 340 383 451 519 587 663 731 808 893</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>aluminized steel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Based on 65°F entering air temperature. † Milliwatts per foot, based on flow rate of 3 FPS; according to ASHRAE fundamentals handbook, 2001

NOTE: H-3, H-4 and E-3 elements are not recommended for bare-element installation. H-1 is not recommended for steam applications.

Ratings are based on active finned length (S & C series 5” less than overall length.) (H series – 4” less than overall length.)

Active length of each element is as follows:
- For copper tube H and C elements – 4" less than total length.
- For steel pipe H and S elements – 5" less than total length.

The installed height for elements is defined as the distance from the finished floor to the top of the fin. The minimum mounting height on all elements without enclosures is 5 3/4" from finished floor to bottom of fins of lowest element.

Dimensions for bare element installation without enclosures ("S" and "C" elements).
Slant/Fin Trough Heater is a floor recessed commercial finned tube heater. It is ideal for applications with windows coming to the floor, installation by doors or just applications where the building owner does not want visible finned tube. For installations by windows, the cold convective air generated by the window is caught and heated in the natural convective air currents created by the Trough Heater. Cold drafts will be minimized or eliminated. No noise and no electricity.

Heat output ratings are published from 110°F to 200°F water and low pressure steam (215°F) 1 P.S.I. steam ratings. It is ideal for use with high efficiency boiler, standard efficiency boiler and district steam applications. Your choice of ¼” 1”, 1 ¼” copper tube and 1 ¼” & 2” schedule 40 steel pipe elements with 4 ¼” x 4 ¼” square fins.

With finned tube heating buildings as far south as the South Pole and as far north as Prudhoe Bay- Alaska, Slant/Fin should be your choice for quality and high performance heating products.

<table>
<thead>
<tr>
<th>Model</th>
<th>Tube Size &amp; Material</th>
<th>Fins Size &amp; Material</th>
<th>Fins Per Foot</th>
<th>Entering Air Temp. °F</th>
<th>Steam 1 PSI BTU/hr. per Foot</th>
<th>Hot Water Ratings BTU/hr./FT. (Flow Rate 3 Ft/Sec.)</th>
<th>&quot;A&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-532</td>
<td>1-1/4” IPS Steel</td>
<td>4-1/4” x 4-1/4” x 0.24 Electro-gal steel</td>
<td>32</td>
<td>47</td>
<td>900</td>
<td>180 230 300 410 480 550 620 700 770 860</td>
<td>6-11/16&quot;</td>
</tr>
<tr>
<td>S-540</td>
<td>1-1/4” IPS Steel</td>
<td>4-1/4” x 4-1/4” x 0.24 Electro-gal steel</td>
<td>40</td>
<td>47</td>
<td>1000</td>
<td>200 260 330 450 610 690 780 860 1050 1150</td>
<td>6-11/16&quot;</td>
</tr>
<tr>
<td>S-832</td>
<td>2” IPS Steel</td>
<td>4-1/4” x 4-1/4” x 0.24 Electro-gal steel</td>
<td>32</td>
<td>47</td>
<td>940</td>
<td>190 240 310 420 500 570 650 730 810 920</td>
<td>7-1/16&quot;</td>
</tr>
<tr>
<td>C-340</td>
<td>3/4” IPS Copper</td>
<td>4-1/4” x 4-1/4” x 0.020 Aluminum</td>
<td>40</td>
<td>47</td>
<td>1340</td>
<td>270 350 440 540 600 710 820 920 1050 1150</td>
<td>6-5/6&quot;</td>
</tr>
<tr>
<td>C-440</td>
<td>1” IPS Copper</td>
<td>4-1/4” x 4-1/4” x 0.020 Aluminum</td>
<td>40</td>
<td>47</td>
<td>1290</td>
<td>260 340 430 520 580 680 790 890 1010 1110</td>
<td>6-1/2&quot;</td>
</tr>
<tr>
<td>C-540</td>
<td>1-1/4” IPS Copper</td>
<td>4-1/4” x 4-1/4” x 0.020 Aluminum</td>
<td>40</td>
<td>47</td>
<td>1330</td>
<td>270 350 440 530 600 700 810 920 1040 1140</td>
<td>6-5/8&quot;</td>
</tr>
</tbody>
</table>

Notes:
1. Ratings based on 24 square inches for free open air per linear foot of grille for air inlet and also outlet.
2. For 65°F entering air temperature divide above ratings by 1.2 to arrive at output.

How to order Trough Heater- TR is ordered by individual component.

TRL Liner- the standard liner is 20 gauge galvanized steel. 18 and 16 gauge steel is optional available in 2,3,4,5,6,7, and 8 foot lengths.

TRB TR Baffle- optimizes heat output by separating heated supply air with cool return air. Installed between element and air intake and ends just below the Grille. The baffle is 20 gauge galvanized steel. Available in same lengths of Liner and should be matched up to every foot of active finned element.

LBS Liner Brackets Supports- made from 3/16” thick hot rolled steel. TR Brackets support the heating element and the TR Baffle.

SC Hanger Slide Cradle that mounts on Liner Bracket to hold element or bare pipe. SC Hangers prevent expansion noise do to expansion/contraction of heating elements and bare pipe. Use one for every Liner Bracket.

Elements Select from 6 element models. Three models with steel pipe and steel fines and three models with copper pipes and aluminum fins.

Grille The floor grille is supplied by others. There are several grille manufacturers who manufacture and supply custom grilles designed to match the rooms décor.
Dampers are available as options on most enclosures, and are shown in diagrams wherever applicable. Ratings are for enclosures without dampers, or with dampers in fully open position.

**Water Content**

Slant/Fin commercial radiation elements contain the following volume of water:

$$\frac{3}{4} \text{"} \text{copper tube} \quad \Rightarrow \quad 0.023 \text{ gal./ft.}$$

- **Model C440, 1" copper tube**
  $$0.040 \text{ gal./ft.}$$

- **Model C540, 1\frac{1}{4}" \text{copper tube}**
  $$0.063 \text{ gal./ft.}$$

- **Model S532, S540, 1\frac{1}{4}" \text{steel pipe}**
  $$0.077 \text{ gal./ft.}$$

- **Model S832, 2" \text{steel pipe}**
  $$0.174 \text{ gal./ft.}$$

**NOTE:**

All ratings have been determined in the Slant/Fin Environmental Laboratory in conformance with accepted industry practice concerning testing and rating procedures for finned tube (commercial) radiation. Fin-tube must be installed in accordance with installation diagrams on Form CP-10 and 90-40 to obtain the ratings indicated. Use of material or installation methods other than those specified by Slant/Fin may result in a change in the ratings.

* Engineering data pertains to all products in this publication except Multi/Pak 80 and H and E Series bare elements.

**Dampers**

Dampers are available as options on most enclosures, and are shown in diagrams wherever applicable. Ratings are for enclosures without dampers, or with dampers in fully open position.

**Steam Ratings**

Steam ratings are expressed in BTU per hour per lineal foot of active length, based on steam or 215°F, 1 PSI, (101.5°C) and 65°F (18.3°C) entering air.

**Recommended Installed Height**

*(Does not apply to units with horizontal outlet)*

Ratings include the factor shown in Table 3 for the recommended installed height. If the unit is to be installed at a height other than that recommended, the rating must be adjusted as follows:

\[
\text{Factor from Table 3 for actual installed height} \div \text{Factor from Table 3 for recommended installed height} = \text{Rating shown on pages 5, 11, 13, 15, 21 & 27}
\]

**Example for installed heights other than recommended (example based on Multi/Pak 95-10):**

Given:

- **Installed height:** 36"  \[1.00 + \frac{1.15}{2} \times 1500 = 1304 \text{ Btu/hr./ft.}\]
- **Recommended height:** 14"  \[1.00 \times 1304 = 1304 \text{ Btu/hr./ft.}\]
- **Water Temperature:** 200°F  \[200\text{°F} - 14\text{"} = 186\text{°F} \text{ for C-540} \text{ element} \]
- **Cover type:** 95-10  \[C-540 \text{ element} \]
- **Element:** C-540

† Use the values in Table 3 below for both the “RECOMMENDED HEIGHT” factors and for the “ACTUAL HEIGHT” factors.
HANDY FORMULAS FOR WATER BTUH

\[ \text{BTUH} = \text{GPM} \times 500 \times \Delta T^\circ\text{F} \]

\[ \text{GPM} = \frac{(\text{BTUH} \div 500)}{\Delta T^\circ\text{F}} \]

\[ \Delta T^\circ\text{F} = \frac{(\text{BTUH} \div 500)}{\text{GPM}} \]

\[ \text{BTU} = \text{GPM} \times 500 \times \text{Temp. Drop for Water} \, ^\circ\text{F} \]
**SPECIFICATIONS – CONTINUED**

**TUBE/PIPE WATER CAPACITIES AND QUANTITIES**
**CIRCULATED AT VELOCITY OF 3* FEET PER SECOND**

<table>
<thead>
<tr>
<th>Tube/Pipe Size</th>
<th>Gals. Per Linear Ft.</th>
<th>Gals./Min. @ 3'/Sec. Vel.*</th>
<th>Lbs./Hr. @ 3'/Sec. Vel.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; Copper Tube</td>
<td>0.023</td>
<td>4.14</td>
<td>2,070</td>
</tr>
<tr>
<td>1&quot; Copper Tube</td>
<td>0.040</td>
<td>7.20</td>
<td>3,600</td>
</tr>
<tr>
<td>1-1/4&quot; Copper Tube</td>
<td>0.063</td>
<td>11.34</td>
<td>5,670</td>
</tr>
<tr>
<td>1-1/4&quot; NPT Steel Pipe</td>
<td>0.077</td>
<td>13.86</td>
<td>6,930</td>
</tr>
<tr>
<td>2&quot; NPT Steel Pipe</td>
<td>0.174</td>
<td>31.32</td>
<td>15,660</td>
</tr>
</tbody>
</table>

*3'/Sec. Velocity is Basis for Hot Water Rating Factors.

**Water Velocity Ft./Sec. = Lbs. per Hour**
(Gals. per Ft.)(3600)(8.3)

**EXPANSION OF COPPER AND STEEL PIPING**
### Maximum Runs, Lineal Feet of Fin-Pipe:
The following table indicates maximum normal runs of fin-pipe for steam systems. These runs in lineal feet are based on conservative velocities and the rapid removal of condensate. Pressure drops in column headings are per hundred equivalent feet of pipe.

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Square Ft. per Linear Ft. @ 1 psi</th>
<th>One Pipe</th>
<th>Two Pipe</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1 oz.</td>
<td>2 oz.</td>
<td>3 oz.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 oz.</td>
<td>2 oz.</td>
<td>3 oz.</td>
</tr>
<tr>
<td>S540</td>
<td>1-1/4&quot; ips</td>
<td>6.30</td>
<td>10</td>
<td>18</td>
</tr>
<tr>
<td>S832</td>
<td>2&quot; ips</td>
<td>5.70</td>
<td>30</td>
<td>60</td>
</tr>
<tr>
<td>C540</td>
<td>1-1/4&quot; cop.</td>
<td>7.50</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>H5X</td>
<td>1-1/4&quot; cop.</td>
<td>4.70</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>H6X</td>
<td>1-1/4&quot; ips</td>
<td>4.10</td>
<td>10</td>
<td>18</td>
</tr>
</tbody>
</table>

* Made of schedule 40 seamed pipe

### STEAM CAPACITIES OF PIPING (Low Pressure, 1psig) “Square Feet, EDR”

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Horizontal Supply and Return Mains</th>
<th>Two-Pipe</th>
<th>One-Pipe</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Supply</td>
<td>Wet Return</td>
<td>Dry Return</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&quot;</td>
<td>56</td>
<td>79</td>
<td>111</td>
</tr>
<tr>
<td></td>
<td>700</td>
<td>1000</td>
<td>1400</td>
</tr>
<tr>
<td></td>
<td>122</td>
<td>173</td>
<td>245</td>
</tr>
<tr>
<td></td>
<td>1200</td>
<td>1700</td>
<td>2400</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>190</td>
<td>269</td>
<td>380</td>
</tr>
<tr>
<td></td>
<td>1900</td>
<td>2700</td>
<td>3800</td>
</tr>
<tr>
<td>2&quot;</td>
<td>386</td>
<td>546</td>
<td>771</td>
</tr>
<tr>
<td></td>
<td>4000</td>
<td>5600</td>
<td>8000</td>
</tr>
<tr>
<td></td>
<td>635</td>
<td>898</td>
<td>1270</td>
</tr>
<tr>
<td>2-1/2&quot;</td>
<td>6700</td>
<td>9400</td>
<td>13,400</td>
</tr>
<tr>
<td></td>
<td>3800</td>
<td>4900</td>
<td>5450</td>
</tr>
<tr>
<td>3&quot;</td>
<td>1160</td>
<td>1650</td>
<td>2330</td>
</tr>
<tr>
<td></td>
<td>10,700</td>
<td>15,000</td>
<td>21,400</td>
</tr>
<tr>
<td></td>
<td>1740</td>
<td>2460</td>
<td>3470</td>
</tr>
<tr>
<td>3-1/2&quot;</td>
<td>16,000</td>
<td>22,000</td>
<td>32,000</td>
</tr>
<tr>
<td></td>
<td>10,000</td>
<td>12,900</td>
<td>14,300</td>
</tr>
<tr>
<td>4&quot;</td>
<td>2460</td>
<td>3480</td>
<td>4910</td>
</tr>
<tr>
<td></td>
<td>22,000</td>
<td>31,000</td>
<td>44,000</td>
</tr>
<tr>
<td>5&quot;</td>
<td>4550</td>
<td>6430</td>
<td>9090</td>
</tr>
<tr>
<td>6&quot;</td>
<td>7460</td>
<td>10,550</td>
<td>14,900</td>
</tr>
</tbody>
</table>

* Made of schedule 40 seamed pipe

Pressure drop columns are in ounces per 100 feet, equivalent length of run. Equivalent length of run can be approximated as double the actual length of pipe.

Total pressure drop for the entire system should not exceed one-half the normal boiler-guage pressure. Supply and return mains must be sized for a uniform pressure drop for each system.

Adapted from the ASHRAE Guide.

To convert to pounds, divide above figure by 4.
To convert to Btu’s, multiply above figures by 240.

Pipe capacities are based on a normal pitch of 1/4" in 10 feet for two-pipe steam, and 1/2" pitch in 10 feet for one-pipe steam. If pitch is increased to 2" in 10", the runoff capacities above may be increased by 20%.

The maximum lengths of fin-pipe listed above may also be increased by 20% if 2" pitch is used.
Decorator Colors

Decorator Colors for Premium Baseboard and Commercial Fin-Tube Radiation

Slant/Fin powder coatings provide an attractive and durable finish to our extensive line of the superbly crafted enclosures. These architecturally decorative colors, with a baked enamel finish, provides a resistance to abrasion, impact, corrosion and chipping.

11 Decorator Colors

Nu-White
Brite White
Shell White
Almond
Architectural Bronze
Chestnut
Chocolate
Cloud Grey
Flat Black
Mirror Black
Rubbed Bronze (Metallic-Double Coated)

Color paint chips and color guide are available upon request.
Email: orders@slantfin.com or contact customer service: 516-484-0103

Notes:
___________________________________________________________________________
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___________________________________________________________________________
**ENGINEERING DATA**

**SPECIFICATIONS**

**Multi/Pak 90**
Furnish and install as shown on the plans Multi/Pak®’s—slope-top fin-tube enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin. Cover shall be of two interlocking sections: a top cover and front cover. Top cover will be common to one-tier (90-14) and two-tier (90-21) models. (Optional: A knob-actuated damper shall be provided.) Top cover shall consist of stamped grille with pencil-proof air discharge louvers. Front cover shall interlock with top cover to form lateral decorative panel. Front cover shall be removable without removal of the top cover.

Interlocking top cover and front cover shall both be fabricated from 18-gauge galvanized steel in pre-painted Nu-White baked enamel finish or color as per specification. Brackets and hangers shall have a galvanized finish.

Provide and install Slant/Fin’s internal plate space. The internal plate space shall provide an internal slip connection method with creating unsightly weld marks on the front of the cover. The resultant joint will be a neat butt joint; the need for an external plate splice is eliminated.

Fin-tube element(s) shall be Model_________.

Provide lengths and capacities as scheduled on plans. Furnish required channeled bracket-hanger assemblies with heavy flag brace for rigid front panel and element support. Provide all required accessories for complete installation. Cover accessories shall be telescopic and shall match enclosure color.

**Multi/Pak 93**
Furnish and install as shown on the plans Multi/Pak®’s—flat-top fin-tube enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin.

Cover shall be of two interlocking sections: a top cover and front cover. Top cover will be common to one-tier (93-10) and two-tier (93-17) models. (Optional: A knob-actuated damper shall be provided.) Top of enclosure shall consist of stamped grille pre-painted and with pencil-proof air discharge louvers. Front skirt shall interlock with top panel to form lateral decorative panel. Front skirt shall be removable.

Interlocking top cover and front cover shall both be fabricated from 18-gauge steel in Nu-White baked enamel or as custom matched as per specification. Brackets and hangers shall have a galvanized finish.

Fin-tube element(s) shall be Model_________.

Provide lengths and capacities as scheduled on plans. Furnish required channeled bracket-hanger assemblies with heavy flag brace for rigid front panel and element support. Provide all required accessories for complete installation. Cover accessories shall be telescopic and shall match enclosure color.

**Multi/Pak 95**
Furnish and install as shown on the plans Multi/Pak®’s—flat-top fin-tube enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin.

Cover shall be of two interlocking sections: a top cover and front cover. Top cover will be common to one-tier and two-tier models. (Optional: A knob-actuated damper shall be provided.) Top of enclosure shall consist of stamped grille pre-painted and with pencil-proof air discharge louvers. Front skirt shall interlock with top panel to form lateral decorative panel. Front skirt shall be removable.

Interlocking top cover and front cover shall both be fabricated from 18-gauge steel in Nu-White baked enamel or as custom matched as per specification. Brackets and hangers shall have electro-galvanized finish.

Fin-tube element(s) shall be Model_________.

Provide lengths and capacities as scheduled on plans. Furnish required channeled bracket-hanger assemblies with heavy flag brace for rigid front skirt and element support. Provide all required accessories for complete installation. Cover accessories shall be telescopic and shall match enclosure color.

**JA-14, JA-21 or JA-28 Series**
Furnish and install as shown on the plans JA slope-top fin-tube enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin. Cover shall be of one-piece construction. Top part of enclosure shall consist of stamped grille with pencil-proof air discharge louvers. (Optional: A knob-actuated damper shall be provided.)

Cover shall be fabricated from 18 (16 or 14) gauge galvanized steel. Cover finish shall be galvannealed or powder coated to a color as per specification. Brackets and hangers shall have a galvanized finish.

Cover panels to join using Internal Splice Plates, resulting in a clean joint without unsightly weld marks on front of cover.

(Optional: Cover with anodized aluminum grill in place of pencil-proof louvers. Cover shall be fabricated from 18 (16 or 14) gauge galvanized steel. Cover finish shall be galvannealed or powder coated in decorative colors. Brackets and hangers shall have a galvanized finish. Covers panels shall join using slip joint resulting in a clean joint.) Please note that knob-actuated damper is not available on aluminum grill cover.

Provide all required accessories for complete installation. Cover accessories shall be telescopic and shall match color.

Fin-tube element(s) shall be Model_________.

Provide lengths and capacities as scheduled on plans. Furnish required channeled bracket-hanger assemblies with heavy flag brace for rigid front panel and element support.

**JL-10 Series**
Furnish and install as shown on the plans JL-10 slope-top fin-tube enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin.

Cover shall be of one-piece construction. Top part of enclosure shall consist of stamped grille with pencil-proof air discharge louvers. (Optional: A knob-actuated damper shall be provided.)

Cover shall be fabricated from 18 (16 or 14) gauge galvanized steel finish or powder coated to a color as per specification. Brackets and hangers shall have a galvanized finish.

(Optional: A full height back panel shall be provided of 20 gauge galvanized steel.)

Provide all required accessories for complete installation. Cover accessories shall be telescopic and shall match color.

Fin-tube element(s) shall be Model_________.

Provide lengths and capacities as scheduled on plans. Furnish required channeled bracket-hanger assemblies with heavy flag brace for rigid front panel and element support.

**TBG Series**
Furnish and install as shown on the plans "TBG" Series top & bottom slope enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin. Cover shall be of one piece construction. Enclosure shall be (TBG-17, TBG-24) and shall have (1 or 2) tier element. (Optional: A knob-actuated damper shall be provided.) Top and bottom slope of enclosure shall consist of stamped grille with pencil-proof air discharge louvers. All enclosures shall have female-to-female slip joint connection with interlocking internal splice. The internal splice provides additional strength with a nearly invisible joint. (Optional: A full height front panel shall be provided of 20-gauge steel in hot dipped galvanized finish.)

Cover shall be fabricated from 18 gauge (14 gauge optional) steel in galvannealed finish or powder coated in decorator color.

Brackets and hangers shall be channelled steel in hot dipped coated galvanized finish. Fin-tube element(s) shall be Model_________. Provide lengths and capacities as scheduled on plans. Furnish required channeled bracket-hanger assemblies with heavy flag brace for rigid front skirt and element support.

Provide all required accessories for a complete installation. Enclosure accessories in electro-galvanized steel shall be telescopic and match enclosure color.

**R Series**
Furnish and install as shown on the plans "R" Series round top enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin.

Cover shall be of one piece construction. Enclosure shall be (RL-10, RT-14, RT-21 or RT-28) and shall have (1, 2 or 3) tier element. (Optional: A knob-actuated damper shall be provided.) Top part of enclosure shall consist of stamped grille with pencil-proof air discharge louvers. All enclosures shall have female-to-female slip joint connection with interlocking internal splice. The internal splice provides additional strength with a nearly invisible joint. (Optional: A full height back panel shall be provided of 20-gauge electro galvanized steel finish.)

Cover shall be fabricated from 18 (16 or 14) gauge steel in a galvannealed steel finish or as custom color matched as per specification. Brackets and hangers shall be channeled steel in hot dipped coated galvanized finish. Fin-tube element(s) shall be Model_________.

Provide lengths and capacities as scheduled on plans. Furnish required channeled bracket-hanger assemblies with heavy flag brace for rigid front skirt and element support.

Provide all required accessories for a complete installation. Enclosure accessories in electro-galvanized steel shall be telescopic and match enclosure color.

**FS Series**
Furnish and install as shown on the plans "FS" Series free standing enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin.

Cover shall be of one piece construction. Enclosure shall be (FS-7, FS-14, FS-21) and shall have (1, 2 or 3) tier element. Top part of enclosure galvannealed shall consist of stamped grille with pencil-proof air discharge louvers. All enclosures shall have female-to-female slip joint connection with interlocking internal splice. The internal splice provides additional strength with a nearly invisible joint.
350 Series
Furnish and install 350 Series Model, baseboard cover assembly as manufactured by Slant/Fin, consisting of one-piece bottom, back and top panel, and one-piece 19 (16) gauge front panel, formed of cold rolled steel. Bottom and top edges of back panel shall be formed to provide channels along entire length, to receive full-height support brackets.

Brackets shall be die formed of electro-galvanized cold rolled steel, for rigid bracing and spring locking. Slide-action expansion cradles, formed of polypropylene, shall be inserted between heating element and support brackets. Cradles shall protect element bottom and sides from contact with brackets or cover, confining element to free lateral expansion for noiseless operation.

Provide all required accessories for a complete installation. Cover accessories shall be telescopic and shall match enclosure color.

All cover components shall be painted in Nu-White.

HD Series
Furnish and install as shown on the plans model HD-850, HD-1400________ HD Series slope-top baseboard with element, required mounting components and accessories as manufactured by Slant/Fin. Complete two-piece hearing element assembly shall consist of full back panel with interlocking slope front panel, factory packaged with necessary brackets.

Front cover shall be fabricated from 16-gauge galvanized steel, back panel from 20-gauge galvanized steel. The front panel & accessories shall be finished in galvanized finish powder coated in decorator color. Fin-tube element(s) shall be Model _____________.

Provide lengths, heights and capacities as scheduled on plans.

Bracket with element hanger shall be spot welded to back panel every inch. The bracket shall be dimpled anchoring holes every 12 inches on front cover. Use 8 x 3/8” self-tapping screws with countersunk heads to fasten front cover to brackets. Screws recess into dimpled anchoring holes on front cover. Screws are supplied in carton with cover.

Provide all required accessories for a complete installation. Cover accessories shall be telescopic to eliminate the need to perfectly butt one length of cover to the next. Accessories to be fastened with screws (pan-head) supplied by others.

LC Series
Furnish and install as shown on the plans model (LC-850, LC-1400) LC Series-slope top baseboard with element, required brackets and accessories as manufactured by Slant/Fin.

Front Cover shall be fabricated from 16-gauge galvanized steel. Top horizontal lip of cover shall be no wider than 7/8 inch, this is to prevent standing on the cover. Outlet louvers shall be located on the front sloped face of the cover, louvers located on the top of the cover are not acceptable. Cover finish shall be galvanized finish or powder coated in decorator color.

Front cover to be mounted on the wall with one piece wall brackets. Brackets shall be spaced no further than 2 feet apart with bracket secured to wall studs and not to the wall board. Slide-action expansion cradles shall be inserted between heating element and cover brackets. Slide-action expansion cradles are supplied with heating element. Installer shall secure front cover to mounting brackets by drilling hole into vertical flange on lower front wall cover and screwing front cover to each wall bracket. Screws are field supplied.

Finned tube heating element shall be Model (One, Two) tiers of element to be installed within cover. Provide lengths, heights and capacities as scheduled on plans. (Add specification for model of element being specified)

Multi/Pak 80
Furnish and install Multi/Pak® 80 baseboard cover assembly as manufactured by Slant/Fin, consisting of one-piece 21-gauge back and top panel, and one-piece 16-gauge front panel, formed of cold rolled galvanized steel. Bottom and top edges of back panel shall be formed to provide channels along entire length, to receive full-height support brackets.

Brackets shall be die formed of zinc-bonded 16-gauge quarter-hard cold rolled steel, for rigid bracing and spring locking. Slide-action expansion cradles, formed of polypropylene, shall be inserted between heating element and support bracket. Brackets shall protect element bottom and sides from contact with brackets or cover, confining element to free lateral expansion for noiseless operation.

Provide all required accessories for a complete installation. Cover accessories shall be telescopic and shall match enclosure color.

All cover components shall be painted in Nu-White.

F & EM Series
Furnish and install as shown on the plans “F” or “EM” Series flat-top enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin. Cover shall be of one piece construction. Enclosure shall be EM-5, EM-12, EM-19, F-5, F-12 or F-19 and shall have (1, 2 or 3) tier element. EM enclosure shall be made of expanded fl. Enclosure shall consist of stamped top grille with pencil-proof air discharge louvers.

Covers shall be fabricated from 18-gauge (16-gauge for EM) steel in galvanized finish or powder coated in decorator color. Fin-tube element(s) shall be Model _____________. Provide lengths and capacities as scheduled on plans.

Brackets and hangers shall be channelened steel in electro galvanized finish. Fin-tube element(s) shall be Model _____________. Provide lengths and capacities as scheduled on plans.

Furnish required channelened bracket-hanger assemblies for rigid element support.

Provide all required accessories for complete installation. Enclosure accessories in bonded zinc steel shall be telescopic and match enclosure color.

C-540, C-440 and C-340 Element
Furnish and install C-540, C-440 and C-340 fin-tube heating elements as manufactured by Slant/Fin, consisting of 1 1/8” nominal copper seamless-drawn tubing* with 4/16” x 4/16”.020” aluminum fins spaced 40 per linear foot. Fins shall be mechanically bonded to the tubing to increase thermal contact and to space and lock the fins uniformly in place. A flange with four teeth shall be formed on each fin to increase thermal contact and to space and lock the fins uniformly in place.

C-440 is 1” copper pipe. C-340 is 3/8” copper pipe.

S-540, S-532 and S-832 Element
Furnish and install S-540 and S-532 fin-tube heating element as manufactured by Slant/Fin, consisting of 1 1/8” IPS steel pipe” (Schedule 40), with 4/16” x 4/16”.024”steel fins spaced 40 per linear foot for S-540 and 32 per linear foot for S-532 and S-832. The pipe shall be forced through undersized fin holes to obtain a force-fit mechanical bond. A flange with four teeth shall be formed on each fin to increase thermal contact and to space and lock the fins uniformly in place. Both ends of each element pipe shall be threaded with IPS standard threads.

S-832 is 2” IPS steel pipe.

H-1 Element
Furnish and install H-1 baseboard heating element as manufactured by Slant/Fin, consisting of 1” nominal copper tubing, with 3/16” x 2 1/2”.024” aluminum fins, spaced 48 per linear foot. Fins shall be mechanically bonded to the tubing to increase thermal contact and to space and lock the fins uniformly in place.

One end of each element tube shall be expanded to receive the expanded end of another, without couplings.

H-3 Element
Furnish and install H-3 baseboard heating element as manufactured by Slant/Fin, consisting of 1” nominal copper tubing, with 3/16” x 2 1/2”.011” aluminum fins bent to 3/4” x 2 1/4”, spaced 55 per linear foot. Fins shall be mechanically bonded to the tubing to increase thermal contact and to space and lock the fins uniformly in place. A flange with four teeth shall be formed on each fin to increase thermal contact and to space and lock the fins uniformly in place. One end of each element tube shall be expanded to receive the expanded end of another, without couplings.

H-4 Element
Furnish and install H-4 baseboard heating element as manufactured by Slant/Fin, consisting of 1” nominal copper tubing, with 3/16” x 2 1/2” x 1/8”.020” aluminum fins bent to 3/4” x 2 1/4”, spaced 48 per linear foot. Fins shall be mechanically bonded to the tubing to increase thermal contact and to space and lock the fins uniformly in place. A flange with four teeth shall be formed on each fin to increase thermal contact and to space and lock the fins uniformly in place. One end of each element tube shall be expanded to receive the expanded end of another, without couplings.

H-5X Element
Furnish and install H-5 baseboard heating element as manufactured by Slant/Fin, consisting of 1” nominal copper tubing, with 3/16” x 3/8”.020” aluminum fins, spaced 48 per linear foot. Fins shall be mechanically bonded to the tubing to increase thermal contact and to space and lock the fins uniformly in place. A flange with four teeth shall be formed on each fin to increase thermal contact and to space and lock the fins uniformly in place. One end of each element tube shall be expanded to receive the expanded end of another, without couplings.

H-6X Element
Furnish and install H-6 baseboard heating element as manufactured by Slant/Fin, consisting of 1 1/8” IPS steel pipe (Schedule 40), with 3/4” x 3/4”.028” steel fins, spaced 48 per linear foot. Fins shall be mechanically bonded to the pipe to increase thermal contact and to space and lock the fins uniformly in place. A flange with four teeth shall be formed on each fin to increase thermal contact and to space and lock the fins uniformly in place. Both ends of each element pipe shall be threaded with IPS standard threads.

E-75E Element
Furnish and install E-75 baseboard heating element as manufactured by Slant/Fin, consisting of 1 1/8” copper pipe. with 3/16” x 2 1/2” x 1/8”.011” aluminum fins, spaced 48 per linear foot. Fins shall be mechanically bonded to the pipe to increase thermal contact and to space and lock the fins uniformly in place. A flange with four teeth shall be formed on each fin to increase thermal contact and to space and lock the fins uniformly in place. Both ends of each element pipe shall be threaded with IPS standard threads.

E-75E Element
Furnish and install E-75 baseboard heating element as manufactured by Slant/Fin, consisting of 1 1/8” copper pipe. with 3/16” x 2 1/2” x 1/8”.011” aluminum fins, spaced 48 per linear foot. Fins shall be mechanically bonded to the pipe to increase thermal contact and to space and lock the fins uniformly in place. A flange with four teeth shall be formed on each fin to increase thermal contact and to space and lock the fins uniformly in place. Both ends of each element pipe shall be threaded with IPS standard threads.

Go to www.slantfin.com for 3-part CSI Specifications and BIM files.
We have taken the step to change our Galvanized Steel material to Galvannealed material. They both are zinc coated at the mill and are designed for rust and corrosion resistance. Both are passed through a hot dip coating process; however, Galvannealed steel goes through an additional annealing process, which induces diffusion alloying between the molten zinc coating and the steel. This vastly improves the formability and paint adhesion of the Galvannealed material but leaves it with a duller matte surface compared to the spangle finish achieved with just Galvanized. This is just another step we have taken to improve our product quality and our customer’s Slant/Fin buying experience. Slant/Fin reserves the right to interchange Galvanized or Galvannealed material based on availability and other market factors.