COMMERCIAL FIN-TUBE
Radiation Selection Guide

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

Output Ratings Range:
- 110°F through 220°F Water Temperature
- 1 P.S.I. Steam
**MULTI/PAK® 90, 93 & 95**


- **Style:** Slope-top and flat-top. Aluminum grille optional (90 & 95).
- **Application:** Commercial heating.
- **Output:** 373 to 3140 Btu/hr.
- **Elements:** Choice of 12. Copper/aluminum or steel.
- **Finish:** Nu-White baked enamel or custom colors.

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:** Galvanized 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 6. Copper/aluminum or steel.
- **Finish:** Galvanized or custom colors.

**350 SERIES**

High output slope-top baseboard.

- **Style:** Slope-top, louvered baseboard.
- **Application:** Commercial heating. Hot water or steam.
- **Output:** 554 to 3770 Btu/hr.
- **Elements:** Choice of 6. Copper/aluminum or steel.
- **Finish:** 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:** Galvanized or custom colors. RF= Top Outlet RF= Front Outlet

**FS SERIES**

Free standing fin-tube enclosure.

- **Style:** Pedestal mounted enclosure.
- **Application:** Commercial heating.
- **Output:** 581 to 3339 Btu/hr.
- **Elements:** Choice of 6. Copper/aluminum or steel.
- **Finish:** Galvanized or custom colors.

**TBG SERIES**

1-piece fin-tube enclosure.

- **Style:** Slope top and bottom.
- **Application:** Commercial heating. Hot water or steam.
- **Output:** 540 to 2548 Btu/hr.
- **Elements:** Choice of 6. Copper/aluminum or steel.
- **Finish:** Galvanized 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 baked enamel.

**F&EM SERIES**

1-piece element covers.

- **Style:** F-Series: Louvered top. EM Series: Expanded metal
- **Application:** 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:** Galvanized 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.

**ENGINEERING DATA**

Ratings Data Specifications (Refer to pages 28-30)

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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\(\frac{1}{8}\)” 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 3\(\frac{1}{8}\)” 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 ¾” 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

- **Hanging Strip**
  Provides additional rear support and seal

- **Tamper-proof lock**
  Locks front cover to lower arm of bracket

- **Wall Gasketing**
  For dustproof seal between top of cover and wall

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**

**SLOPE-TOP, TWO-PIECE ENCLOSURE**

*Pre-painted. Factory packaged.*

**MODELS 90-14 AND 90-21**

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**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" (90-14)

**HEIGHTS:** 14" (one tier), 21" (one or two tier)

**LENGTHS:** 2', 3', 3½', 4', 5', 6', 7', 8'.

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

**FINISH:**
- **USA:** Nu-White baked enamel is standard.
- **CANADA:** Galvanized steel finish is standard. Custom color available on special order. Anodized architectural aluminum grille optional.

**WALL BRACKETS/HANGERS:** Packaged with complete assembly. SC hanger has guide rod to provide 1½" lateral expansion movement; 1¼" 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>

**ELEMENTS:** Copper with aluminum fins: C-340, C-440, C-540. Steel with electro-galvanized steel fins: S-532, S-540, S-832. Lengths from 2 to 12 feet (Canada: 2 to 8 feet). See p. 30.

**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.

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**ORDERING DATA**

**Multi/Pak 90 Complete Enclosure Assembly**

**MODELS 90-14 AND 90-21**

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**Multi/Pak 90 Series two-piece fin-tube enclosure. The modern choice in commercial radiation.**

- Available as a "stock item."
- Factory packaging protects the cover until ready to install.
- Easy to install. Easy to service.
- Precut lengths, telescopic accessories, speed installations.
- Nu-White baked enamel finish.

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**Aluminum grille optional.**

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**RATINGS**

With or without dampers

<table>
<thead>
<tr>
<th>Cover Type</th>
<th>Enclosure Height</th>
<th>Element Type</th>
<th>Tube Size and 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>90-14</td>
<td>14&quot;</td>
<td>S-532</td>
<td>1/4 steel</td>
<td>1/2 steel</td>
<td>32</td>
<td>1380 276 359 455 552 621 731 842 952 1076 1187 1311 1449</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1/4 steel</td>
<td>1/2 steel</td>
<td>40</td>
<td>1550 310 403 512 620 698 822 946 1070 1209 1333 1473 1628</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-832</td>
<td>1/2 steel</td>
<td>1/4 steel</td>
<td>32</td>
<td>1400 280 364 462 560 630 742 854 966 1092 1204 1330 1470</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>1/4 copper</td>
<td>1/4 alum</td>
<td>40</td>
<td>1839 368 478 607 736 828 975 1122 1269 1435 1582 1748 1932</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1/4 copper</td>
<td>1/4 alum</td>
<td>40</td>
<td>1950 390 507 644 780 878 1034 1190 1346 1521 1677 1853 2048</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>1/4 copper</td>
<td>1/4 alum</td>
<td>40</td>
<td>1910 382 497 630 764 860 1012 1165 1318 1490 1643 1815 2006</td>
</tr>
<tr>
<td>90-21 One-tier element</td>
<td>21&quot;</td>
<td>S-532</td>
<td>1/4 steel</td>
<td>1/2 steel</td>
<td>32</td>
<td>1460 292 380 482 584 657 774 891 1007 1139 1256 1387 1533</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1/4 steel</td>
<td>1/2 steel</td>
<td>40</td>
<td>1680 336 437 554 672 756 890 1025 1159 1310 1445 1596 1764</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-832</td>
<td>1/2 steel</td>
<td>1/4 steel</td>
<td>32</td>
<td>1520 304 395 502 608 684 806 927 1049 1186 1307 1444 1596</td>
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<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>1/4 copper</td>
<td>1/4 alum</td>
<td>40</td>
<td>2013 399 519 658 796 906 1067 1228 1389 1570 1731 1895 2114</td>
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<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1/4 copper</td>
<td>1/4 alum</td>
<td>40</td>
<td>2130 426 554 703 852 959 1129 1299 1470 1661 1832 2024 2237</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>1/4 copper</td>
<td>1/4 alum</td>
<td>40</td>
<td>2090 418 544 690 836 941 1108 1275 1442 1630 1797 1986 2195</td>
</tr>
<tr>
<td>90-21 Two-tier element</td>
<td>21&quot;</td>
<td>S-532</td>
<td>1/4 steel</td>
<td>1/2 steel</td>
<td>32</td>
<td>2190 438 570 723 876 986 1161 1336 1511 1708 1883 2081 2300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1/4 steel</td>
<td>1/2 steel</td>
<td>40</td>
<td>2380 476 619 785 952 1071 1281 1452 1642 1856 2047 2261 2499</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-832</td>
<td>1/2 steel</td>
<td>1/4 steel</td>
<td>32</td>
<td>2270 454 590 749 906 1022 1203 1385 1566 1771 1952 2157 2384</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>1/4 copper</td>
<td>1/4 alum</td>
<td>40</td>
<td>2822 564 734 931 1129 1270 1496 1721 1947 2200 2427 2681 2963</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1/4 copper</td>
<td>1/4 alum</td>
<td>40</td>
<td>2990 598 778 987 1196 1346 1585 1824 2063 2332 2571 2841 3140</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>1/4 copper</td>
<td>1/4 alum</td>
<td>40</td>
<td>2930 586 762 967 1172 1319 1553 1787 2022 2285 2520 2784 3077</td>
</tr>
</tbody>
</table>

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

**HOT WATER RATINGS**

<table>
<thead>
<tr>
<th></th>
<th>BTU/HR./FT. (Flow Rate 3 Ft./Sec.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></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>90-14</td>
<td>S-532 1 1/4&quot; steel 4 1/4&quot; steel 32 1460 292 380 482 584 657 774 891 1007 1139 1256 1387 1533</td>
</tr>
<tr>
<td>90-14</td>
<td>S-540 1 1/4&quot; steel 4 1/4&quot; steel 40 1680 336 437 554 672 756 890 1025 1159 1310 1445 1596 1764</td>
</tr>
<tr>
<td>90-21 One-tier element</td>
<td>S-532 1 1/4&quot; steel 4 1/4&quot; steel 32 1460 292 380 482 584 657 774 891 1007 1139 1256 1387 1533</td>
</tr>
<tr>
<td>90-21 One-tier element</td>
<td>S-540 1 1/4&quot; steel 4 1/4&quot; steel 40 1680 336 437 554 672 756 890 1025 1159 1310 1445 1596 1764</td>
</tr>
<tr>
<td>90-21 Two-tier element</td>
<td>S-532 1 1/4&quot; steel 4 1/4&quot; steel 32 1460 292 380 482 584 657 774 891 1007 1139 1256 1387 1533</td>
</tr>
<tr>
<td>90-21 Two-tier element</td>
<td>S-540 1 1/4&quot; steel 4 1/4&quot; steel 40 1680 336 437 554 672 756 890 1025 1159 1310 1445 1596 1764</td>
</tr>
</tbody>
</table>

**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. Custom color available on special order.

**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, 90°
- Outside corner, 90°
- End valve cover, † slotted, 10°
- End valve cover, 10°

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

Internal Splice Plate for 90-14 and 90-21

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.
MULTI/PAK® 93
FLAT-TOP, TWO-PIECE ENCLOSURE
Pre-painted. Factory packaged.

MODELS 93-10 AND 93-17

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: 3½"
HEIGHTS: 9¾" (one tier), 16¾" (one or two tier)
LENGTHS: 2', 3', 3½', 4', 5', 6', 7', 8'.

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

FINISH: Nu-White baked enamel is standard. Custom color available on special order.

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>ELEMENT</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>3⅛&quot;</td>
</tr>
<tr>
<td>H3</td>
<td>2⅞&quot;</td>
</tr>
<tr>
<td>H4</td>
<td>2⅞&quot;</td>
</tr>
<tr>
<td>H5X</td>
<td>3⅛&quot;</td>
</tr>
<tr>
<td>H6X</td>
<td>3⅛&quot;</td>
</tr>
<tr>
<td>E-75</td>
<td>2⅞&quot;</td>
</tr>
</tbody>
</table>

ORDERING DATA

Multi/Pak 93 Complete Enclosure Assembly


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 GRILLES IS NOT AVAILABLE.

MODELS 93-10 AND 93-17

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

<table>
<thead>
<tr>
<th>93-17</th>
<th>Brackets</th>
<th>Hangers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>

Multi/Pak 90 Series two-piece fin-tube enclosure. The modern choice in commercial radiation.

• Available as a "stock item".
• Factory packaging protects the cover until ready to install.
• Easy to install. Easy to service.
• Precut lengths, telescopic accessories, speed installations.
• Nu-White baked enamel finish.

Slant/Fin
## RATINGS

With or without dampers

<table>
<thead>
<tr>
<th>Cover Type</th>
<th>Enclosure Height</th>
<th>Element Type</th>
<th>Rows of Heating Elements</th>
<th>Tube Size &amp; Material</th>
<th>Fin Size and Material</th>
<th>Fins Per Foot</th>
<th>Steam 1 PSI* Btu/Hr./Per Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>93-10</strong></td>
<td>9½&quot;</td>
<td>H-1</td>
<td>1 ¼&quot; copper</td>
<td>3&quot; x 3¼&quot; x .024&quot; aluminum</td>
<td>48 1079 216 281 356 432 486 572 658 745 848 928 1025 1133</td>
<td>930 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200</td>
<td><strong>HOT WATER RATINGS</strong></td>
</tr>
<tr>
<td>H-3</td>
<td>1 ¼&quot; copper</td>
<td>2&quot; x 2¼&quot; x .011&quot; aluminum</td>
<td>55 991 198 258 327 396 466 525 605 684 773 852 941 1041</td>
<td></td>
<td></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>
<td></td>
</tr>
<tr>
<td>H-4</td>
<td>1 ¼&quot; copper</td>
<td>3&quot; x 2¼&quot; x .011&quot; aluminum</td>
<td>48 965 193 251 319 386 454 511 589 666 753 830 917 1013</td>
<td></td>
<td></td>
<td></td>
<td>Note: Ratings are based on active finned length (3&quot; less than overall length).</td>
</tr>
<tr>
<td>H-5X</td>
<td>1 ½&quot; copper</td>
<td>3&quot; x 3¼&quot; x .020° aluminum</td>
<td>48 1030 206 268 340 412 486 564 646 711 780 856 934 1010</td>
<td></td>
<td></td>
<td></td>
<td>* Based on 65°F entering air temperature.</td>
</tr>
<tr>
<td>H-6X</td>
<td>1 ½&quot; IPS Steel</td>
<td>3&quot; x 3¼&quot; x .028&quot; aluminum</td>
<td>48 863 177 353 535 717 899 1082 1265 1448 1631 1814 1997 2180</td>
<td></td>
<td></td>
<td></td>
<td>Note: Ratings are based on active finned length (3&quot; less than overall length).</td>
</tr>
<tr>
<td>E-75</td>
<td>½&quot; copper</td>
<td>2½&quot; x 2¼&quot; aluminum</td>
<td>55 828 166 253 340 427 514 601 688 775 862 949 1036 1123</td>
<td></td>
<td></td>
<td></td>
<td>Note: Ratings are based on active finned length (3&quot; less than overall length).</td>
</tr>
</tbody>
</table>

| **93-17** One-tier element | 16¾" | H-1          | ½" copper | 3" x 3¼" x .024" aluminum | 48 1182 236 307 390 473 556 640 723 806 889 972 1055 1138 | 110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F |**HOT WATER RATINGS** |
| H-3        | ½" copper        | 2½" x 2¼" x .011" aluminum | 55 1086 217 286 356 425 495 565 635 705 775 845 915 1005 |                       |                       |                           | * Based on 65°F entering air temperature. |
| H-4        | ½" copper        | 3" x 2¼" x .011" aluminum | 48 1057 211 275 349 423 497 571 646 722 796 870 945 1030 |                       |                       |                           | Note: Ratings are based on active finned length (3" less than overall length). |
| H-5X       | ½" copper        | 3" x 3¼" x .020° aluminum | 48 1128 226 293 360 428 505 582 659 736 813 891 968 1045 |                       |                       |                           | * Based on 65°F entering air temperature. |
| H-6X       | ½" IPS Steel     | 3" x 3¼" x .028° aluminum | 48 947 189 267 345 423 501 579 657 735 813 891 969 1047 |                       |                       |                           | Note: Ratings are based on active finned length (3" less than overall length). |
| E-75       | ½" copper        | 2½" x 2¼" aluminum | 55 907 181 265 349 433 517 601 685 769 853 937 1015 1103 |                       |                       |                           | * Based on 65°F entering air temperature. |

| **93-17** Two-tier element | 16¾" | H-1          | ¾" copper | 3" x 3¼" x .024" aluminum | 48 1679 336 514 692 870 1048 1226 1404 1582 1760 1938 2116 2294 | 110°F 120°F 130°F 140°F 150°F 160°F 170°F 180°F 190°F 200°F 210°F 220°F |**HOT WATER RATINGS** |
| H-3        | ¾" copper        | 2½" x 2¼" x .011" aluminum | 55 1543 309 401 509 617 725 833 941 1049 1157 1265 1373 1481 |                       |                       |                           | * Based on 65°F entering air temperature. |
| H-4        | ¾" copper        | 3" x 2¼" x .011" aluminum | 48 1501 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 |                       |                       |                           | Note: Ratings are based on active finned length (3" less than overall length). |
| H-5X       | ¾" copper        | 3" x 3¼" x .020° aluminum | 48 1602 320 417 529 641 721 849 977 1105 1233 1361 1489 1617 |                       |                       |                           | * Based on 65°F entering air temperature. |
| H-6X       | ¾" IPS Steel     | 3" x 3¼" x .028° aluminum | 48 1435 287 385 483 581 679 777 875 973 1071 1169 1267 1365 |                       |                       |                           | Note: Ratings are based on active finned length (3" less than overall length). |
| E-75       | ¾" copper        | 2½" x 2¼" aluminum | 55 1288 258 356 454 552 650 748 846 944 1042 1140 1238 1336 |                       |                       |                           | * Based on 65°F entering air temperature. |

## 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. Custom color available on special order.

### non-telescopic accessories

- Column cover set
- Damper (electro galvanized)*
- Tamper-proof lock
- 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, †
- End valve cover, † slotted, 10°
- End valve cover, † 10° (not shown)

† 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 baked enamel is standard. Custom color available on special order. Anodized architectural aluminum grille optional.

WALL BRACKETS/HANGERS: Packaged with complete assembly. SC-2 hanger has guide rod to provide 1½" lateral expansion movement, 1¼" vertical pitch adjustment. Brackets and hangers provided with complete assembly as follows:

<table>
<thead>
<tr>
<th>ELEMENT</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-340</td>
<td>3</td>
</tr>
<tr>
<td>C-440</td>
<td>3¼</td>
</tr>
<tr>
<td>C-540</td>
<td>3¼</td>
</tr>
<tr>
<td>S-532</td>
<td>3¼</td>
</tr>
<tr>
<td>S-540</td>
<td>3¼</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

**ACCESSORIES**

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. Custom color available on special order.

---

### non-telescopic accessories

- Column cover set
- Damper (electro galvanized, not available with aluminum grille)*
- Tamper-proof lock*
- 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.

---

### ACCESSORIES

<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>
<th>HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>110°F</td>
<td>120°F</td>
</tr>
<tr>
<td>95-10</td>
<td>9(\frac{1}{2})&quot;</td>
<td>S-532</td>
<td>1(\frac{1}{8})&quot; steel</td>
<td>4(\frac{1}{4})&quot; steel</td>
<td>32</td>
<td>1254</td>
<td>251</td>
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<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1(\frac{1}{8})&quot; steel</td>
<td>4(\frac{1}{4})&quot; steel</td>
<td>40</td>
<td>1470</td>
<td>294</td>
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<tr>
<td></td>
<td></td>
<td>S-832</td>
<td>2&quot; steel</td>
<td>4(\frac{1}{4})&quot; steel</td>
<td>32</td>
<td>1310</td>
<td>263</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>3(\frac{1}{8})&quot; copper</td>
<td>4(\frac{1}{4})&quot; alum.</td>
<td>40</td>
<td>1680</td>
<td>336</td>
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<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1(\frac{1}{8})&quot; copper</td>
<td>4(\frac{1}{4})&quot; alum.</td>
<td>40</td>
<td>1780</td>
<td>356</td>
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<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>1(\frac{3}{8})&quot; copper</td>
<td>4(\frac{1}{4})&quot; alum.</td>
<td>40</td>
<td>1745</td>
<td>349</td>
</tr>
<tr>
<td>95-17 One-tier element</td>
<td>16(\frac{1}{2})&quot;</td>
<td>S-532</td>
<td>1(\frac{1}{8})&quot; steel</td>
<td>4(\frac{1}{4})&quot; steel</td>
<td>32</td>
<td>1351</td>
<td>270</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1(\frac{1}{8})&quot; steel</td>
<td>4(\frac{1}{4})&quot; steel</td>
<td>40</td>
<td>1577</td>
<td>315</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-832</td>
<td>2&quot; steel</td>
<td>4(\frac{1}{4})&quot; steel</td>
<td>32</td>
<td>1390</td>
<td>279</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>1(\frac{1}{4})&quot; copper</td>
<td>4(\frac{1}{4})&quot; alum.</td>
<td>40</td>
<td>1840</td>
<td>368</td>
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<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1(\frac{1}{4})&quot; copper</td>
<td>4(\frac{1}{4})&quot; alum.</td>
<td>40</td>
<td>1950</td>
<td>390</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>1(\frac{1}{2})&quot; copper</td>
<td>4(\frac{1}{4})&quot; alum.</td>
<td>40</td>
<td>1911</td>
<td>382</td>
</tr>
<tr>
<td>95-17 Two-tier element</td>
<td>16(\frac{1}{2})&quot;</td>
<td>S-532</td>
<td>1(\frac{1}{8})&quot; steel</td>
<td>4(\frac{1}{4})&quot; steel</td>
<td>32</td>
<td>2153</td>
<td>431</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1(\frac{1}{8})&quot; steel</td>
<td>4(\frac{1}{4})&quot; steel</td>
<td>40</td>
<td>2390</td>
<td>478</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-832</td>
<td>2&quot; steel</td>
<td>4(\frac{1}{4})&quot; steel</td>
<td>32</td>
<td>2230</td>
<td>447</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>1(\frac{3}{8})&quot; copper</td>
<td>4(\frac{1}{4})&quot; alum.</td>
<td>40</td>
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<td>523</td>
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<td></td>
<td></td>
<td>C-440</td>
<td>1(\frac{1}{8})&quot; copper</td>
<td>4(\frac{1}{4})&quot; alum.</td>
<td>40</td>
<td>2770</td>
<td>554</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-540</td>
<td>1(\frac{1}{2})&quot; copper</td>
<td>4(\frac{1}{4})&quot; alum.</td>
<td>40</td>
<td>2715</td>
<td>543</td>
</tr>
</tbody>
</table>

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

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

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

---

**ORDERING DATA**

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

**DEPTH:** 5 1/4”

**HEIGHTS:** 9 7/8” and 14” (one tier), 21” (one or two tier), 28” (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:** Galvanized is standard. Baked enamel finishes in a variety of colors available on special 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-832. 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.

**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 3/8” 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 3/4” lateral movement permits smooth, noiseless expansion. Cradle supports finned or bare tubing at same height. Fastening slot in bracket allows 1 1/8” pitch adjustment.
- Knob-operated damper (optional) modulates fully to control output. See page 5 for details.
With or without dampers

- **JA-28**
  - 32" long, 9/16" wall thickness
  - 1230 Btu/hr per ft

- **JA-40**
  - 40" long, 9/16" wall thickness
  - 1760 Btu/hr per ft

- **JA-21**
  - 14" long, 3/4" wall thickness
  - 655 Btu/hr per ft

- **JA-11**
  - 11" long, 3/4" wall thickness
  - 475 Btu/hr per ft

- **JA-18**
  - 18" long, 3/4" wall thickness
  - 940 Btu/hr per ft

- **JA-14**
  - 14" long, 3/4" wall thickness
  - 650 Btu/hr per ft

- **JA-12**
  - 12" long, 3/4" wall thickness
  - 435 Btu/hr per ft

Accessories

- **End Cap**
- **Splice plate**
- **Center valve cover**
- **Inside corner, 90°**
- **Outside corner, 90°**
- **End valve cover, 10°**

**NOTES**
- Btu/hr./ft.

**HOT WATER RATINGS**

<table>
<thead>
<tr>
<th>Cover Type</th>
<th>Enclosure Height</th>
<th>Element Type</th>
<th>Tube Size and Material</th>
<th>Fins Per Foot</th>
<th>Steam 1 PSI* Btu/ft. Per Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>JL-10</td>
<td>91/2&quot;</td>
<td>S-532</td>
<td>1/2&quot; steel</td>
<td>420</td>
<td>980</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1/2&quot; steel</td>
<td>400</td>
<td>960</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>3/8&quot; copper</td>
<td>400</td>
<td>960</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1/4&quot; copper</td>
<td>400</td>
<td>960</td>
</tr>
<tr>
<td>JA-14</td>
<td>14&quot;</td>
<td>S-532</td>
<td>1/2&quot; steel</td>
<td>420</td>
<td>980</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1/2&quot; steel</td>
<td>400</td>
<td>960</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>3/8&quot; copper</td>
<td>400</td>
<td>960</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1/4&quot; copper</td>
<td>400</td>
<td>960</td>
</tr>
<tr>
<td>JA-21</td>
<td>21&quot;</td>
<td>S-532</td>
<td>1/2&quot; steel</td>
<td>420</td>
<td>980</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1/2&quot; steel</td>
<td>400</td>
<td>960</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>3/8&quot; copper</td>
<td>400</td>
<td>960</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1/4&quot; copper</td>
<td>400</td>
<td>960</td>
</tr>
<tr>
<td>JA-28</td>
<td>28&quot;</td>
<td>S-532</td>
<td>1/2&quot; steel</td>
<td>420</td>
<td>980</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-540</td>
<td>1/2&quot; steel</td>
<td>400</td>
<td>960</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-340</td>
<td>3/8&quot; copper</td>
<td>400</td>
<td>960</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C-440</td>
<td>1/4&quot; copper</td>
<td>400</td>
<td>960</td>
</tr>
</tbody>
</table>

**TAMPER-PROOF LOCK**

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

* See p.3 for details
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 1/4” copper/aluminum elements permit higher flow rates, longer series-loop runs and lower pump loads where required. With the 1 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.

**ORDERING DATA**

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

**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 3/8” self tapping screws with countersunk head as supplied in carton. Pencil proof louvers. Damper optional.

**DEPTH:** 3 1/2”

**HEIGHTS:** 8 1/2” (one tier), 14” (one or two tier)

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

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

**FINISH:** Galvanized is standard. Custom color available on special 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</th>
<th>Fins per Foot</th>
<th>Water Flow</th>
<th>Pressure Drop†</th>
<th>Steam 1 PSI* Blt/Hr. Per Foot</th>
<th>HOT WATER RATINGS* BTU/HR./FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD-850 Single-tier</td>
<td>H-1</td>
<td>1</td>
<td>3/8&quot; copper</td>
<td>3&quot; x 3/8&quot; x 0.04&quot;</td>
<td>48</td>
<td>4 GPM</td>
<td>47</td>
<td>190 280 320 390 470 550 640 720 800 890 970 1050</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>HD-850 Single-tier</td>
<td>H-3</td>
<td>1</td>
<td>3/8&quot; copper</td>
<td>2 3/8&quot; x 3/8&quot; x 0.011&quot;</td>
<td>55</td>
<td>4 GPM</td>
<td>47</td>
<td>170 230 290 350 420 490 570 640 720 800 890 970</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-850 Single-tier</td>
<td>H-4</td>
<td>1</td>
<td>1&quot; copper</td>
<td>3&quot; x 2/3&quot; x 0.011&quot;</td>
<td>48</td>
<td>4 GPM</td>
<td>13</td>
<td>180 240 300 360 430 500 570 640 720 800 890 970</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-850 Single-tier</td>
<td>H-5X</td>
<td>1</td>
<td>1/2&quot; copper</td>
<td>3&quot; x 3/8&quot; x 0.020&quot;</td>
<td>48</td>
<td>4 GPM</td>
<td>6</td>
<td>180 240 300 360 430 500 570 640 720 800 890 970</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-850 Single-tier</td>
<td>H-6X</td>
<td>1</td>
<td>1/2&quot; IPS steel</td>
<td>3&quot; x 3/8&quot; x 0.028&quot;</td>
<td>48</td>
<td>4 GPM</td>
<td>3</td>
<td>150 200 250 300 350 410 480 540 600 650 700 750</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-1400 Single-tier</td>
<td>H-1</td>
<td>1</td>
<td>3/8&quot; copper</td>
<td>3 x 3/8&quot; x 0.04&quot;</td>
<td>48</td>
<td>4 GPM</td>
<td>47</td>
<td>260 350 440 540 640 760 870 990 1100 1220 1340 1450</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-1400 Single-tier</td>
<td>H-3</td>
<td>1</td>
<td>3/8&quot; copper</td>
<td>2 3/8&quot; x 3/8&quot; x 0.011&quot;</td>
<td>55</td>
<td>4 GPM</td>
<td>47</td>
<td>260 350 440 540 640 760 870 990 1100 1220 1340 1450</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-1400 Single-tier</td>
<td>H-4</td>
<td>1</td>
<td>1&quot; copper</td>
<td>3&quot; x 2/3&quot; x 0.011&quot;</td>
<td>48</td>
<td>4 GPM</td>
<td>13</td>
<td>260 350 440 540 640 760 870 990 1100 1220 1340 1450</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-1400 Single-tier</td>
<td>H-5X</td>
<td>1</td>
<td>1/2&quot; copper</td>
<td>3&quot; x 3/8&quot; x 0.020&quot;</td>
<td>48</td>
<td>4 GPM</td>
<td>6</td>
<td>260 350 440 540 640 760 870 990 1100 1220 1340 1450</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-1400 Single-tier</td>
<td>H-6X</td>
<td>1</td>
<td>1/2&quot; IPS steel</td>
<td>3&quot; x 3/8&quot; x 0.028&quot;</td>
<td>48</td>
<td>4 GPM</td>
<td>3</td>
<td>260 350 440 540 640 760 870 990 1100 1220 1340 1450</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-1400 Single-tier</td>
<td>H-1</td>
<td>1</td>
<td>3/8&quot; copper</td>
<td>3 x 3/8&quot; x 0.04&quot;</td>
<td>48</td>
<td>4 GPM</td>
<td>47</td>
<td>150 200 250 300 350 410 480 540 600 650 700 750</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-1400 Single-tier</td>
<td>H-3</td>
<td>1</td>
<td>3/8&quot; copper</td>
<td>2 3/8&quot; x 3/8&quot; x 0.011&quot;</td>
<td>55</td>
<td>4 GPM</td>
<td>47</td>
<td>260 350 440 540 640 760 870 990 1100 1220 1340 1450</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-1400 Single-tier</td>
<td>H-4</td>
<td>1</td>
<td>1&quot; copper</td>
<td>3&quot; x 2/3&quot; x 0.011&quot;</td>
<td>48</td>
<td>4 GPM</td>
<td>13</td>
<td>150 200 250 300 350 410 480 540 600 650 700 750</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-1400 Single-tier</td>
<td>H-5X</td>
<td>1</td>
<td>1/2&quot; copper</td>
<td>3&quot; x 3/8&quot; x 0.020&quot;</td>
<td>48</td>
<td>4 GPM</td>
<td>6</td>
<td>260 350 440 540 640 760 870 990 1100 1220 1340 1450</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</td>
</tr>
<tr>
<td>HD-1400 Single-tier</td>
<td>H-6X</td>
<td>1</td>
<td>1/2&quot; IPS steel</td>
<td>3&quot; x 3/8&quot; x 0.028&quot;</td>
<td>48</td>
<td>4 GPM</td>
<td>3</td>
<td>150 200 250 300 350 410 480 540 600 650 700 750</td>
<td>80 90 100 110 120 130 140 150 160 170 180 190</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**

**10" CENTER VALVE COVER**

**90° INSIDE CORNER VALVE COVER**

**2" 3", OR 4" SPLICE PLATE**

**10" VALVE COVER**

(SLotted or UNSlotted)

**Access doors: 6" x 6"**

---

**LC SERIES 18 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. The small vertical lip at the bottom of the front cover is where the installer drills a small hole to screw the front cover to the brackets. 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.
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

**HEAVY-DUTY CONSTRUCTION:** 350 Series is engineered throughout for maximum strength. Super-strong enclosures. Extra-strength steel brackets. Heavy-duty copper and steel tubing with full mill rated bursting strength. Rock-solid interlocking-fin elements so strong you can stand on them.

“**CONTRACTOR-DESIGNED**” for fast, economical installation. 350 Series goes straight from carton to wall without disassembling, sorting parts, wasting time. Factory pre-cut lengths of 2 to 8 feet combine with snap-on telescoping accessories to make wall-to-wall installations without cutting.

### 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:** 9½” (one tier) and 13¾” (one or two tier)


**MATERIAL:** 19-gauge steel or 16-gauge galvanized steel front cover. 24-gauge back cover. 17-gauge brackets.

**FINISH:** 19-gauge model: Nu-White enamel finish. 16-gauge model: galvanized finish. Custom colors available.

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

**ELEMENTS:** Choice of five. Copper with aluminum fins: H-1, H-3, H-4 and H-5X; steel with electro-galvanized steel fins: H-6X. See page 30.

<table>
<thead>
<tr>
<th>Model</th>
<th>Element</th>
<th>“A”</th>
</tr>
</thead>
<tbody>
<tr>
<td>351</td>
<td>H-1</td>
<td>3 ½”</td>
</tr>
<tr>
<td>353</td>
<td>H-3</td>
<td>3 ½”</td>
</tr>
<tr>
<td>354</td>
<td>H-4</td>
<td>3 ½”</td>
</tr>
<tr>
<td>355</td>
<td>H-5x</td>
<td>3 ¾”</td>
</tr>
<tr>
<td>356</td>
<td>H-6x</td>
<td>3 ¾”</td>
</tr>
</tbody>
</table>
**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.

**t e l e s c o p i c  a c c e s s o r i e s**

- **End Cap**: *2"* solid or *4"* hinged (slotted or unslotted)
- **Filler Sleeve**: 3-piece
- **Splice Plate**: *2"* 1-piece
- **Outside Corner**: 90° or 135° (or custom angle)
- **Inside Corner**: *80"* 6" wide, *138"* 4" wide (or custom angle)
- **Valve Cover**: (slotted or unslotted)

---

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

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

ORDERING DATA

CONSTRUCTION: Single piece cover mounts on wall brackets.

DEPTH: 5¼”

HEIGHTS: 9¾”, 14” (one tier), 21” (one or two tier), 28” (up to three tier).


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

<table>
<thead>
<tr>
<th>ELEMENT</th>
<th>RECOMMENDED NUMBER OF BRACKETS FOR GIVEN LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
</tr>
<tr>
<td>S-532</td>
<td>2-4 ft.</td>
</tr>
<tr>
<td>S-540</td>
<td>2-4 ft.</td>
</tr>
<tr>
<td>S-832</td>
<td>2-4 ft.</td>
</tr>
<tr>
<td>C-340</td>
<td>2-5 ft.</td>
</tr>
<tr>
<td>C-440</td>
<td>2-5 ft.</td>
</tr>
<tr>
<td>C-540</td>
<td>2-5 ft.</td>
</tr>
</tbody>
</table>

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


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.

OPTIONS

Louvers 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.

OTHER OPTIONS

Damper, field installed
(not available with aluminum grille)
Back panel.
16 and 14-gauge cover.
Access door, field installed.
Inlet grille.
Architectural aluminum grille.
Custom color.
### RATINGS

<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 FT./Sec.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL-10</td>
<td>9 ⅝”</td>
<td>S-532</td>
<td>1¼” steel</td>
<td>4¼” steel</td>
<td>32</td>
<td>1230</td>
<td>246 320 406 492 554 652 750 849 959 1058 1169 1292</td>
</tr>
<tr>
<td>RT-14</td>
<td>14”</td>
<td>S-532</td>
<td>1¼” steel</td>
<td>4¼” steel</td>
<td>32</td>
<td>1280</td>
<td>256 333 422 512 621 731 842 952 1076 1187 1311 1449</td>
</tr>
<tr>
<td>RT-21</td>
<td>21” One-tier element</td>
<td>S-532</td>
<td>1¼” steel</td>
<td>4¼” steel</td>
<td>32</td>
<td>1380</td>
<td>276 359 455 552 621 731 842 952 1076 1187 1311 1449</td>
</tr>
<tr>
<td>RT-28</td>
<td>28” One-tier element</td>
<td>S-532</td>
<td>1¼” steel</td>
<td>4¼” steel</td>
<td>32</td>
<td>1400</td>
<td>280 364 462 552 621 731 842 952 1076 1187 1311 1449</td>
</tr>
<tr>
<td>RT-28</td>
<td>28” Two-tier element</td>
<td>S-532</td>
<td>1¼” steel</td>
<td>4¼” steel</td>
<td>32</td>
<td>2200</td>
<td>440 572 726 880 990 1166 1342 1518 1716 1892 2090 2310</td>
</tr>
<tr>
<td>RT-28</td>
<td>28” Three-tier element</td>
<td>S-532</td>
<td>1¼” steel</td>
<td>4¼” steel</td>
<td>32</td>
<td>2660</td>
<td>572 744 944 1144 1428 1756 1745 1973 2231 2640 2718 3004</td>
</tr>
</tbody>
</table>

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

### ACCESSORIES

#### telescopic accessories

- **End Cap**
- **Filler Sleeve**
- **Outside Corner**
- **Inside Corner**
- **Center Valve† Cover**
- **Splice Plate**
- **End Valve† Cover**
- **Slotted End Cap**

† Access doors: 6” x 6”. Door location depends on model.
CONSTRUCTION: Single piece cover mounts on floor pedestals.

DEPTH: 5½"

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

LENGTHS: 2', 3', 3½', 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.

MODELS FS-21, FS-14 AND FS-7

ORDERING DATA

CONSTRUCTION: Single piece cover mounts on floor pedestals.

DEPTH: 5½"

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

LENGTHS: 2', 3', 3½', 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.

<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>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>

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.
Custom color.
### 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>
<th>HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-7</td>
<td>7&quot;</td>
<td>S-532</td>
<td>1 1/2&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>1290</td>
<td>BTU/HR./FT. (Flow Rate 3 Ft./Sec.)</td>
</tr>
<tr>
<td>FS-14</td>
<td>14&quot;</td>
<td>One-tier</td>
<td>S-532</td>
<td>1 1/2&quot; steel</td>
<td>32</td>
<td>1330</td>
<td>BTU/HR./FT. (Flow Rate 3 Ft./Sec.)</td>
</tr>
<tr>
<td>FS-21</td>
<td>21&quot;</td>
<td>One-tier</td>
<td>S-532</td>
<td>1 1/2&quot; steel</td>
<td>32</td>
<td>1650</td>
<td>BTU/HR./FT. (Flow Rate 3 Ft./Sec.)</td>
</tr>
<tr>
<td>FS-21</td>
<td>Three-tier</td>
<td>S-532</td>
<td>1 1/2&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>2380</td>
<td>BTU/HR./FT. (Flow Rate 3 Ft./Sec.)</td>
</tr>
</tbody>
</table>

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

### ACCESSORIES

![Diagram of telescopic accessories]

- **End Cap (R or L):** (slotted optional)
- **Filler Sleeve:**
- **Splice Plate:**
- **Outside Corner:**
- **Inside Corner:**
- **Center Valve Cover:**
- **End Valve Cover (R or L):** (slotted optional)

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

**CONSTRUCTION:** Single piece cover mounts on wall brackets.  
**DEPTH:** 5 1/4"  
**HEIGHTS:** 17" (one tier), 24" (one or two tier)  
**LENGTHS:** 2', 3', 3 1/2', 4', 5', 6', 7', 8'. Other 1/2' lengths available to order.  
**MATERIAL:** 16-ga cover standard, 14-ga optional.  
**FINISH:** Galvanized standard. Custom color baked enamel available on special 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.

**OPTIONS**  
- 14-gauge cover.  
- Access door, field installed.  
- Architectural aluminum grille.  
- Damper, field installed (not available with aluminum grille)  
- Custom color.

**ORDERING DATA**

<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>

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

---

Custom Heights & Configurations Available

Aluminum Grille Optional
### 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>Steam 1 PSI* Btu/Hr. 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></td>
<td></td>
<td></td>
<td>110˚F</td>
<td>120˚F</td>
</tr>
<tr>
<td>TBG-17</td>
<td>17&quot;</td>
<td>S-532 1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32 Fins</td>
<td>1250</td>
<td>250</td>
</tr>
<tr>
<td>TBG-24 One-tier element</td>
<td>24&quot;</td>
<td>S-532 1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32 Fins</td>
<td>1460</td>
<td>292</td>
</tr>
<tr>
<td>TBG-24 Two-tier element</td>
<td>24&quot;</td>
<td>S-532 1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32 Fins</td>
<td>1980</td>
<td>396</td>
</tr>
</tbody>
</table>

*Based on 65°F entering air temperature.

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

### ACCESSORIES

![Diagram of ACCESSORIES](image)

**TELESCOPIC ACCESSORIES**

- End Cap
- Filler Sleeve
- Outside Corner
- Inside Corner
- Center Valve Cover
- Splice Plate
- End Valve Cover
- Slotted End Cap

† 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 1½" copper/aluminum elements permit higher flow rates, longer series-loop runs and lower pump loads. The 1½" elements are suitable for use in one or two pipe steam systems.

ORDERING DATA

PACKAGING: Complete assembly - Model 83A2:

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

DEPTH: 3½"
HEIGHT: 8½"
(Canada: 2 to 8 feet).

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

FINISH: Nu-White baked enamel.

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

RATINGS

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.

**ACCESSORIES**

![Diagram of accessories]

**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**

![Images of different telescopic accessories]
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.

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

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

**FINISH:** Galvanized standard. Available in baked enamel.

**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.

**ORDERING DATA**

<table>
<thead>
<tr>
<th>Element</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-532</td>
<td>2-4 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>

Element positions shown maximize output of enclosure. Single or double rows of elements may be placed in any of the two or three positions. Element position is adjustable vertically by 1/8" and horizontally by 1/16".
<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* Btu/hr. Per Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-5</td>
<td>4&quot;&quot;</td>
<td>S-532</td>
<td>1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>1250</td>
</tr>
<tr>
<td>F-12</td>
<td>11(\frac{3}{4})&quot;</td>
<td>S-532</td>
<td>1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>2070</td>
</tr>
<tr>
<td></td>
<td>18(\frac{3}{4})&quot;</td>
<td>S-532</td>
<td>1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>2750</td>
</tr>
<tr>
<td>F-19</td>
<td>4&quot;&quot;</td>
<td>S-532</td>
<td>1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>1280</td>
</tr>
<tr>
<td></td>
<td>11(\frac{3}{4})&quot;</td>
<td>S-532</td>
<td>1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>1720</td>
</tr>
<tr>
<td></td>
<td>18(\frac{3}{4})&quot;</td>
<td>S-532</td>
<td>1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>2360</td>
</tr>
<tr>
<td>EM-5</td>
<td>4&quot;&quot;</td>
<td>S-532</td>
<td>1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>1280</td>
</tr>
<tr>
<td></td>
<td>11(\frac{3}{4})&quot;</td>
<td>S-532</td>
<td>1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>1720</td>
</tr>
<tr>
<td></td>
<td>18(\frac{3}{4})&quot;</td>
<td>S-532</td>
<td>1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>2360</td>
</tr>
<tr>
<td>EM-12</td>
<td>11(\frac{3}{4})&quot;</td>
<td>S-532</td>
<td>1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>3060</td>
</tr>
<tr>
<td></td>
<td>18(\frac{3}{4})&quot;</td>
<td>S-532</td>
<td>1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>3880</td>
</tr>
<tr>
<td>EM-19</td>
<td>18(\frac{3}{4})&quot;</td>
<td>S-532</td>
<td>1 1/4&quot; steel</td>
<td>4 1/4&quot; steel</td>
<td>32</td>
<td>3880</td>
</tr>
</tbody>
</table>

* 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, 3½, 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, 3½, 4, 5, 6, 7, 8 feet.
FINISH: Copper/aluminum elements - natural finish. Steel elements - natural finish.
## 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>Pressure Drop *</th>
<th>Steam 1 PSI* Btu/Hr. Per Foot</th>
<th>HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-532</td>
<td>1/4&quot; IPS steel</td>
<td>4 1/4&quot; x 4 1/4&quot; x .024&quot; electro-gal. steel</td>
<td>32</td>
<td>1</td>
<td>420</td>
<td>1080</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>S-540</td>
<td>1/4&quot; IPS steel</td>
<td>4 1/4&quot; x 4 1/4&quot; x .024&quot; electro-gal. steel</td>
<td>40</td>
<td>1</td>
<td>420</td>
<td>1300</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>S-832</td>
<td>2&quot; IPS steel</td>
<td>4 1/4&quot; x 4 1/4&quot; x .024&quot; electro-gal. steel</td>
<td>32</td>
<td>1</td>
<td>252</td>
<td>1130</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>C-340</td>
<td>3/8&quot; copper</td>
<td>4 1/4&quot; x 4 1/4&quot; x .020&quot; aluminum</td>
<td>40</td>
<td>1</td>
<td>708</td>
<td>1610</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>C-440</td>
<td>1&quot; copper</td>
<td>4 1/4&quot; x 4 1/4&quot; x .020&quot; aluminum</td>
<td>40</td>
<td>1</td>
<td>504</td>
<td>1550</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>C-540</td>
<td>1 1/8&quot; copper</td>
<td>4 1/4&quot; x 4 1/4&quot; x .020&quot; aluminum</td>
<td>40</td>
<td>1</td>
<td>396</td>
<td>1600</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>H-1</td>
<td>3/8&quot; aluminum</td>
<td>3 1/8&quot; x 3 1/8&quot; x .024&quot; aluminum</td>
<td>48</td>
<td>1</td>
<td>708</td>
<td>218</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>H-5X</td>
<td>1 1/8&quot; copper</td>
<td>3 1/8&quot; x 3 1/8&quot; x .020&quot; aluminum</td>
<td>48</td>
<td>1</td>
<td>396</td>
<td>1390</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>H-6X</td>
<td>1 1/8&quot; IPS steel</td>
<td>3 1/8&quot; x 3 1/8&quot; x .028&quot; aluminized steel</td>
<td>48</td>
<td>1</td>
<td>420</td>
<td>850</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 air temperature. † Millinches per foot, based on flow rate of 3fps; 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.)

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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 53/4" from finished floor to bottom of fins of lowest element.

---

Dimensions for bare element installation without enclosures ("S" and "C" elements).
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:

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

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

Given:

- Installed height: 36" [1.00 × 1.15] × 1500 = 1304 Btu/Hr./Ft.
- Recommended height: 14°
- Water Temperature: 200°F
- Cover type: 95-10
- Element: C-540

† Use the values in Table 3 below for both the “RECOMMENDED HEIGHT” factors and for the “ACTUAL HEIGHT” factors.

### Table 3

<table>
<thead>
<tr>
<th>Height †</th>
<th>Factor</th>
<th>Height †</th>
<th>Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>36&quot; or more</td>
<td>1.00</td>
<td>25&quot;</td>
<td>1.08</td>
</tr>
<tr>
<td>34&quot;</td>
<td>1.01</td>
<td>24&quot;</td>
<td>1.09</td>
</tr>
<tr>
<td>32&quot;</td>
<td>1.02</td>
<td>23&quot;</td>
<td>1.10</td>
</tr>
<tr>
<td>30&quot;</td>
<td>1.05</td>
<td>22&quot;</td>
<td>1.11</td>
</tr>
<tr>
<td>29&quot;</td>
<td>1.06</td>
<td>21&quot;</td>
<td>1.12</td>
</tr>
<tr>
<td>28&quot;</td>
<td>1.07</td>
<td>20&quot;</td>
<td>1.13</td>
</tr>
<tr>
<td>27&quot;</td>
<td>1.08</td>
<td>19&quot;</td>
<td>1.14</td>
</tr>
<tr>
<td>26&quot;</td>
<td>1.09</td>
<td>18&quot; or less</td>
<td>1.15</td>
</tr>
</tbody>
</table>

### 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.

### Water Content

Slant/Fin commercial radiation elements contain the following volume of water: \(\frac{3}{4}\)" copper tube \(0.023\) gal./ft.

Model C440, \(1\"\) copper tube \(0.040\) gal./ft.

Model C540, \(1\frac{1}{4}\"\) copper tube \(0.063\) gal./ft.

Model S532, S540, \(1\frac{1}{4}\"\) steel pipe \(0.077\) gal./ft.

Model S832, 2" steel pipe \(0.174\) 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 #10 and #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.

† Also applies to equivalent saturated steam temperatures. Entering air temperature other than 65°F: multiply the catalog steam rating by the factors shown in Table 3.

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

---

**Water Ratings And Flow Rates**

The hot water ratings shown in this catalog are based on the following:

- Water velocity: 3 or more feet per second
- Entering air temp: 65°F
- Steam temperature: 215°F
- Entering air temperature other than 65°F: multiply hot water ratings by the factors shown in Table 1.

**Example**

Model S832, 2" steel pipe: 

\[0.174\] gal./ft.

**Dampers**

Dampers can be installed as options on most enclosures. They 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: \(\frac{3}{4}\"\) copper tube \(0.023\) gal./ft.

Model C440, \(1\"\) copper tube \(0.040\) gal./ft.

Model C540, \(1\frac{1}{4}\"\) copper tube \(0.063\) gal./ft.

Model S532, S540, \(1\frac{1}{4}\"\) steel pipe \(0.077\) gal./ft.

Model S832, 2" steel pipe \(0.174\) 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 #10 and #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.

† Also applies to equivalent saturated steam temperatures. Entering air temperature other than 65°F: multiply the catalog steam rating by the factors shown in Table 3.

‡ Engineering data pertains to all products in this publication except Multi/Pak 80 and H and E Series bare elements.
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></td>
<td></td>
<td>Low Pressure</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 oz.</td>
<td>2 oz.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Maximum Length of Individual Run in Lineal Feet</td>
<td></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>1  oz.</td>
<td>2  oz.</td>
<td>3  oz.</td>
</tr>
<tr>
<td>1”</td>
<td>Supply</td>
<td>56</td>
<td>79</td>
</tr>
<tr>
<td></td>
<td>Wet Return</td>
<td>700</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td>Dry Return</td>
<td>320</td>
<td>412</td>
</tr>
<tr>
<td></td>
<td>Supply</td>
<td>122</td>
<td>173</td>
</tr>
<tr>
<td>1-1/4”</td>
<td>Wet Return</td>
<td>1200</td>
<td>1700</td>
</tr>
<tr>
<td></td>
<td>Dry Return</td>
<td>670</td>
<td>868</td>
</tr>
<tr>
<td></td>
<td>Supply</td>
<td>190</td>
<td>269</td>
</tr>
<tr>
<td>1-1/2”</td>
<td>Wet Return</td>
<td>1900</td>
<td>2700</td>
</tr>
<tr>
<td></td>
<td>Dry Return</td>
<td>1060</td>
<td>1360</td>
</tr>
<tr>
<td>2”</td>
<td>Supply</td>
<td>386</td>
<td>546</td>
</tr>
<tr>
<td></td>
<td>Wet Return</td>
<td>4000</td>
<td>5600</td>
</tr>
<tr>
<td></td>
<td>Dry Return</td>
<td>2300</td>
<td>2960</td>
</tr>
<tr>
<td>2-1/2”</td>
<td>Supply</td>
<td>635</td>
<td>898</td>
</tr>
<tr>
<td></td>
<td>Wet Return</td>
<td>6700</td>
<td>9400</td>
</tr>
<tr>
<td></td>
<td>Dry Return</td>
<td>3800</td>
<td>4900</td>
</tr>
<tr>
<td>3”</td>
<td>Supply</td>
<td>1160</td>
<td>1650</td>
</tr>
<tr>
<td></td>
<td>Wet Return</td>
<td>10,700</td>
<td>15,000</td>
</tr>
<tr>
<td></td>
<td>Dry Return</td>
<td>7000</td>
<td>9000</td>
</tr>
<tr>
<td>3-1/2”</td>
<td>Supply</td>
<td>1740</td>
<td>2460</td>
</tr>
<tr>
<td></td>
<td>Wet Return</td>
<td>16,000</td>
<td>22,000</td>
</tr>
<tr>
<td></td>
<td>Dry Return</td>
<td>10,000</td>
<td>12,900</td>
</tr>
<tr>
<td>4”</td>
<td>Supply</td>
<td>2460</td>
<td>3480</td>
</tr>
<tr>
<td></td>
<td>Wet Return</td>
<td>22,000</td>
<td>31,000</td>
</tr>
<tr>
<td></td>
<td>Dry Return</td>
<td>15,000</td>
<td>19,000</td>
</tr>
<tr>
<td>5”</td>
<td>Supply</td>
<td>4550</td>
<td>6430</td>
</tr>
<tr>
<td>6”</td>
<td>Supply</td>
<td>7460</td>
<td>10,550</td>
</tr>
</tbody>
</table>

For downfeed supply risers, use “Supply” figures above.

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-gauge pressure. Supply and return mains must be sized for a uniform pressure drop for each system.

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 runout 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.

Adapted from the ASHRAE Guide.
**Mult/Pak 90**

Furnish and install as shown on the plans Multi/Pak®—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 as color per specification. Brackets and hangers shall have a galvanized finish.

Provide and install Slant/Fin’s internal splice plate. The internal splice plate shall provide an internal slip connection without creating unsightly weld marks on the front of the cover. The resultant joint will be a neat butt joint; the need for an external splice plate 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 assemblies shall be telescopic and shall match enclosure color.

**Mult/Pak 93**

Furnish and install as shown on the plans Multi/Pak®—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 an 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 panel and element support. Provide all required accessories for complete installation. Cover assemblies shall be telescopic and shall match enclosure color.

**Mult/Pak 95**

Furnish and install as shown on the plans Multi/Pak®—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 an 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 panel and element support. Provide all required accessories for complete installation. Cover assemblies 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 16 (16 or 14) gauge galvanized steel. Cover finish shall be galvanized or powder coated to a color as per specification. Brackets and hangers shall have a galvanized finish. Cover panels shall join using slip joint resulting in a clean joint without unsightly weld marks on front of cover. (Optional: Cover with anodized aluminum grille in place of pencil-proof louvers. Cover shall be fabricated from 16 (16 or 14) gauge galvanized steel. Cover finish shall be galvanized or powder coated to a color as per specification. 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 grille cover. (Optional: A full height back panel shall be provided of 20 gauge galvanized steel.)

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

**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: Cover with anodized aluminum grille in place of pencil-proof louvers. Cover shall be fabricated from 18 (16 or 14)-gauge galvanized steel. Cover finish shall be galvanized or powder coated to a color as per specification. Brackets and hangers shall have a galvanized finish. Covers panels shall join using slip joint resulting in a clean joint.) Please note that damper is not available on aluminum grille cover.

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

Provide all required accessories for complete installation. Cover assemblies shall be telescopic and shall 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 electro galvanized shall consist of stamped grille with pencil-proof air discharge louvers. All enclosures shall have female-to-female slip joint connection with interlocking internal spine. The internal spine provides additional strength with a nearly invisible joint. (Optional: A full height back panel shall be provided of 20-gauge electro galvanized steel.)

Cover shall be fabricated from 16 gauge (14 gauge option) steel in galvanized finish or as custom matched as per specification. Brackets and hangers shall be channeled steel in hot dipped dipped coat 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.

**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 spine. The internal spine provides additional strength with a nearly invisible joint. (Optional: A full height back panel shall be provided of 20-gauge steel in hot dipped dipped coat galvanized finish.)

Cover shall be fabricated from 16 gauge (14 gauge option) steel in galvanized finish or as custom matched as per specification. Brackets and hangers shall be channeled steel in hot dipped dipped coat 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 channeled bracket 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 spine. The internal spine provides additional strength with a nearly invisible joint. (Optional: A full height back panel shall be provided of 20-gauge electro galvanized steel.)

Cover shall be fabricated from 16 (18 or 21) gauge steel in hot dipped dipped coat galvanized finish or as custom color matched as per specification. Brackets and hangers shall be channeled steel in hot dipped dipped coat 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.
H-1 Element
Furnish and install H-1 baseboard heating element as manufactured by Slant/Fin, consisting of 3⁄4" nominal copper tubing, with 3⁄8" x 21⁄2" .011"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 unexpanded end of another, without couplings.

H-2 Element
Furnish and install H-2 baseboard heating element as manufactured by Slant/Fin, consisting of 3⁄4" nominal copper tubing, with 3⁄8" x 21⁄2" .0125"aluminum fins, spaced 56 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 unexpanded end of another, without couplings.

H-3 Element
Furnish and install H-3 baseboard heating element as manufactured by Slant/Fin, consisting of 3⁄4" nominal copper tubing, with 3⁄8" x 21⁄2" .020"aluminum fins, spaced 56 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 unexpanded end of another, without couplings.

H-4 Element
Furnish and install H-4 baseboard heating element as manufactured by Slant/Fin, consisting of 3⁄4" nominal copper tubing, with 3⁄8" x 21⁄2" .011"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 unexpanded end of another, without couplings.

H-4X Element
Furnish and install H-4X baseboard heating element as manufactured by Slant/Fin, consisting of 3⁄4" nominal copper tubing, with 3⁄8" x 21⁄2" for two 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. Both ends of each element pipe shall be threaded with IPS standard threads.

H-75E Element
Furnish and install H-75E baseboard heating element as manufactured by Slant/Fin, consisting of 3⁄4" nominal copper tubing, with 3⁄8" x 21⁄2" for two 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. Both ends of each element pipe shall be threaded with IPS standard threads.

E-75E Element
Furnish and install E-75E baseboard heating element as manufactured by Slant/Fin, consisting of 3⁄4" nominal copper tubing with 2 1⁄2" x 2 1⁄2" .020"aluminum fins, spaced 2 1⁄2" x 2 1⁄2" .009"aluminum fins, spaced 56 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. Both ends of each element pipe shall be threaded with IPS standard threads.

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 3⁄4" nominal copper tubing with 25⁄32" x 2 1⁄2" .011"aluminum fins, spaced 56 per linear foot. 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.