









COMMERCIAL FINITUSE Radiation Selection Guide

Sant/Fin.

America's premier manufacturer of hydronic heating equipment.





Meeting the commercial heating needs of engineers, architects, builders and heating contractors.

Slant/Fin radiation products are widely recognized for their unmatched quality of design and performance. The wide range of Slant/Fin enclosures and elements described in this catalog meet most hot water or steam heating requirements for offices, schools, hospitals, stores, etc.

Standard and custom designs.

When design schemes or retrofit constraints call for a uniquely shaped fin-tube enclosure, Slant/Fin's custom fabrication capabilities let imagination become reality. The designer may specify size and shape variations of standard Slant/Fin products, as well as totally customized shapes.

And every Slant/Fin model, from multi-tier custom enclosures to our low-profile high-output baseboard, is built to stand up to years of use and abuse.

Faster Delivery.

Shortening the time between specifying fin-tube radiation and completing the installation has long been an industry goal. Now, through design innovations and advanced manufacturing technology, Slant/Fin has improved commercial radiation availability, helping to ensure that your projects are kept on schedule.

Many popular models of fin-tube enclosure and light commercial baseboard radiation are kept in stock at local distributors, so your radiation job can be specified, ordered and installed in just days instead of weeks or months. Multi/Pak 90 Series 2-piece pre-painted enclosures, for instance, knock down flat, and are neatly packaged in a compact box. They are stocked in pre-cut lengths with telescopic accessories, virtually eliminating cutting on the job.

For radiation orders to be shipped from the factory, lead times have been substantially reduced. The Slant/Fin factory has grown to be the most advanced in the industry, with all major metalworking operations under full computer control. Together with deep materials inventory, high production capacity and highly flexible custom painting facilities, Slant/Fin is able to produce long or short runs more economically and deliver commercial radiation products with greater speed and higher quality.





MULTI/PAK®90 SERIES

2-piece fin-tube enclosure. Factory packaged. Prepainted. In stock.

Slope-top and flat-top. Aluminum Style:

grille optional (90 & 95). Application: Commercial heating.

Hot water or steam. Output: 373 to 3140 Btu/hr.

Choice of 11. Copper/aluminum Elements:

or steel.

Nu-White baked enamel, Finish:

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





Multi/Pak 90 Series page 4-11

J SERIES

1-piece fin-tube enclosure.

Style: Slope-top

Commercial heating. Hot water Application:

or steam.

Output: 599 to 3854 Btu/hr.

Elements: Choice of 6. Copper/aluminum

or steel.

Electro galvanized or custom Finish:



page 12-13

FS SERIES

Free standing fin-tube enclosure.

Style: Pedestal mounted enclosure. Application: Commercial heating.

Hot water or steam. 599 to 3854 Btu/hr.

Output: Choice of 6. Copper/aluminum

Elements: or steel.

Finish: Electro galvanized or custom



page 14-15 FS

TBG SERIES

1-piece fin-tube enclosure.

Slope top and bottom. Style:

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: Electro galvanized or custom colors



page 16-17 TBG

R SERIES

1-piece fin-tube enclosure.

Output:

Flat-top. Aluminum grille Style:

optional.

Commercial heating. Hot Application:

water or steam. 554 to 3770 Btu/hr.

Choice of 6. Copper/aluminum Elements:

or steel.

Finish: Electro galvanized or custom colors





page 18-19

High output slope-top baseboard.

Style: Slope-top, louvered baseboard. Application: Light commercial heating. Hot

water or steam 455 to 1397 Btu/hr.

Output: Choice of 5. Copper/aluminum Elements:

or steel.

Finish: Nu-White baked enamel..



HD SERIES

Heavy duty slope-top baseboard.

Style: Slope-top, louvered baseboard. Application: Rugged duty residential or light

commerical heating. Hot water or steam.

Output: 360 to 1660 Btu/hr.

Elements: Choice of 6. Copper/aluminum

or steel.

Finish: Electro galvanized or custom colors.



page 22-23

page 23

30H

FINE/LINE 30H

Heavy duty baseboard.

Style: Low-profile baseboard.. Application: Residential or light commercial

heating.

Output: 380 to 890 Btu/hr. Elements: 3/4" copper/aluminum. Finish: Nu-White baked enamel.



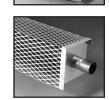
1-piece element covers.

F-Series: Louvered top. Style: EM Series: Expanded metal

Industrial hot water or steam. Application: Output: F Series: 563 to 3497 Btu/hr. EM Series: 581 to 4158 Btu/hr.

Elements: Choice of 5. Copper/aluminum

or steel. Finish: Electro galvanized or custom colors.



page 24-25 F/EM

BARE ELEMENTS

Highest quality fin-tube for single or multi-tier installation.

With Slant/Fin enclosures or as Application:

bare element installation. To 4316 Btu/hr.

Output: Elements: Choice of 11. Copper/aluminum

or steel.



page 26-27

MULTI/PAK®80 SERIES

High output baseboard radiation.

Low-profile baseboard. Style: Application: Light commercial or deluxe

residential heating. Hot water or steam.

Output: 420 to 1200 Btu/hr.

Choice of 5. Copper/aluminum Flements:

or steel.

Nu-White baked enamel. Finish:

ENGINEERING DATA

Ratings data Specifications



page 28



page 29-31



In the best American manufacturing tradition, we've improved the quality of an established good product to make it even better.

Multi/Pak 90 Series

- 2-piece design for convenience, accessibility, ease of cleaning
- Slope-top and flat-top models to meet most specifications
- The "fit and trim" that are the marks of quality craftsmanship
- Readily available from factory and Slant/Fin wholesale distributors
- Baked enamel finish, without premium cost, makes every job a "showcase" installation

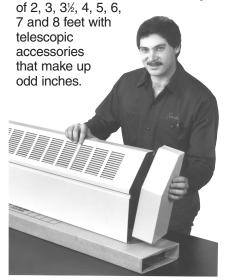
It's never been easier to select, purchase and install fin-tube radiation. And you've never encountered better quality. The unique 2-piece design of our Multi-Pak 90 Series allows us to pack these enclosures in a compact 2½" deep protective carton and to ship and warehouse it -- just like residential baseboard! Multi/Pak 90 is available in a variety of slope-top and flat-top models in single-and multi-tier to meet most design and output requirements.

Easy to orderit's available when you need it.

Slant/fin has made a commitment, through the production, inventory and distribution of Multi/Pak 90, to meet your most demanding commercial radiator delivery requirements. Never before has fintube radiation been prepackaged like

this for "off-the-shelf" availability. Usually commercial enclosure must be ordered many weeks before it's scheduled for installation. It's generally shipped "loose", banded or crated and subject to scratching and damage. And if it turns out that a shipment is short or damaged, the job waits again.

Wait no more. Multi/Pak 90 is stocked at many Slant/Fin wholesalers so you can get it when you need it. Or, it can be promptly shipped direct to your job site from the factory. You also avoid troublesome on-the-job cutting since Multi-Pak 90 comes in lengths



Convenient to handle.

Individually boxed Multi/Pak 90 is easier to transport and easier to handle at the job site than unpackaged commercial cover. We've put an end to bent corners and dented panels. Every foot of cover you buy is protected until you're ready to hang it on the wall.



All the components you need for quick installation--brackets, element hangers, top cover and front cover-are packed in each carton of Multi/Pak 90. Installation is simple. Secure the brackets and hangers to the wall and run your heating elements, the same as you would with ordinary fintube radiation. With Multi/Pak 90 you simply snap on the top cover, and then the front cover. To finish the job, there's a full range of easy-to-install, individually cartoned accessories. Most are telescopic for a quick, snug fit. In a snap, you have a distinctive, fully finished installation that is well designed and well-made.

A finished job with a designer finish.

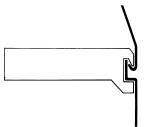
Multi/Pak 90 Series enclosures and accessories are prepainted in a Nu-White baked enamel at no extra cost. Your finished job harmonizes beautifully with any decor. Or, if painting is preferred, the Nu-White finish is an excellent prime base. Multi/Pak 90 may also be ordered with a custom color finish.

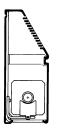


Multi/Pak 90 Series enclosures add exceptional beauty and distinction to any area: office suites, lobbies, show-rooms, restaurants, conference rooms, etc.

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.

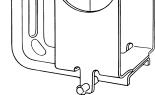






Element support

- Electro-galvanized bracket has fastening slot that allows 1%" pitch adjustment.
- Electro-galvanized cradle supports finned or bare tubing at same height.
- Sliding guide rod provides full cradle width support. 15/6" lateral movement permits smooth, noiseless expansion.





Pencil-proof louvers

Minimize "see through."

Multi/Pak 93 and 95 wall brackets

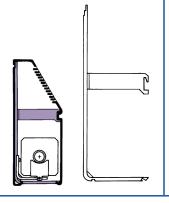
- Extra-heavy 11 gauge wall bracket and panel support arm are die formed with multiple bends that add strenath.
- Multi/Pak 93 element hanger permits 7/6" pitch adjustment. Self-adjusting polypropylene expansion cradle on "H" and "E" elements allow silent lateral expansion movement
- Multi/Pak 95 element support and cradle are identical to Multi/Pak 90

Multi/Pak 93 Multi/Pak 95



Multi/Pak 90 wall brackets

- · Heavy duty 14 gauge wall bracket is drawn die formed with multidirectional 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.





Hanging Strip Used with hook braces where

normal brackets cannot be used

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.

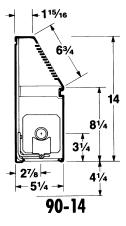


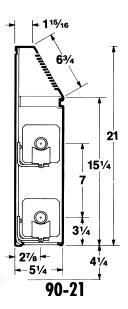


Slant Fin.





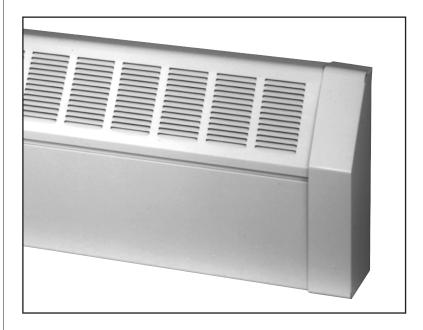




MULTI/PAK® 90

SLOPE-TOP TWO-PIECE ENCLOSURE

MODELS 90-14 AND 90-21



ORDERING DATA

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: 51/4"

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

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

MATERIAL: 18-gauge steel top and front cover. WALL BRACKETS/HANGERS: Packaged with complete assembly. SC hanger has guide rod to provide 1¹⁵/₁₆" lateral expansion movement, 1½" vertical pitch adjustment. Brackets and hangers provided with complete assembly as follows:

	90-	14	90	-21
Length	Brackets	Hangers	Brackets	Hangers
2-5 ft.	2	2	2	4
6-8 ft.	3	3	3	6

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

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

feet. See p. 26.

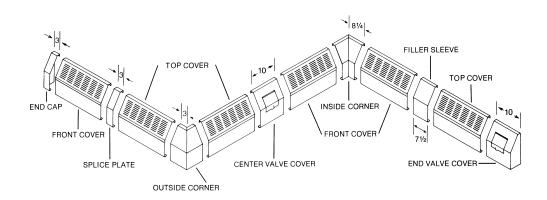


with or without dampers

						Steam 1 PSI *	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)							
Cover Type	Enclosure Height	Element Type	Tube Size and Material	Fin Size and Material	Fins Per Foot	Btu/Hr. Per Foot	220° F 104° C	210° F 99° C	200° F 93° C	190° F 88° C	180° F 82° C	170° F 77° C	160° F 71° C	150° F 66° C
90-14	14"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ¾" copper 1" copper	4¼" steel 4¼" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	1380 1550 1400 1839 1950 1910	1449 1628 1470 1932 2048 2006	1311 1473 1330 1748 1853 1815	1187 1333 1204 1582 1677 1643	1076 1209 1092 1435 1521 1490	952 1070 966 1269 1346 1318	842 946 854 1122 1190 1165	731 822 742 975 1034 1012	621 698 630 828 878 860
90-21	21"	S-532 S-540 S-832 C-340 C-440 C-540	1¼" steel 1¼" steel 2" steel ¾" copper 1" copper 1¼" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	1460 1680 1520 2013 2130 2090	1533 1764 1596 2114 2237 2195	1387 1596 1444 1895 2024 1986	1256 1445 1307 1731 1832 1797	1139 1310 1186 1570 1661 1630	1007 1159 1049 1389 1470 1442	891 1025 927 1228 1299 1275	774 890 806 1067 1129 1108	657 756 684 906 959 941
90-21 Two-tier element	21"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ½" copper 1" copper 1½" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	2190 2380 2270 2822 2990 2930	2300 2499 2384 2963 3140 3077	2081 2261 2157 2681 2841 2784	1883 2047 1952 2427 2571 2520	1708 1856 1771 2200 2332 2285	1511 1642 1566 1947 2063 2022	1336 1452 1385 1721 1824 1787	1161 1261 1203 1496 1585 1553	986 1071 1022 1270 1346 1319

*Based on 65° F entering air temperature. For ratings at lower water temperatures, refer to conversion table on page 29

ACCESSORIES



Fourteen accessories let you "fit" Multi/Pak 90 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)*
Damper, field installed
Hanging strip*
'See p.5 for details

Back panel (electro galvanized) Tamper-proof lock* Wall gasketing*

telescopic accessories



End Cap End Cap-slotted (not shown)



Splice plate



Filler sleeve



Center valve cover



Inside corner, 90°



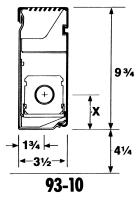
Outside corner, 90°

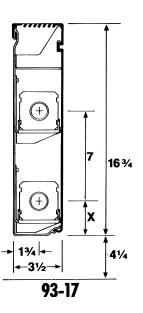


End valve cover, slotted, 10" End valve cover, 10" (not shown)



ELEMENT X H1 3¾6 H3 2¹¾6 H4 2¹¾6 H5X 3¾6 H6X 3¾6 E-75 2¾8

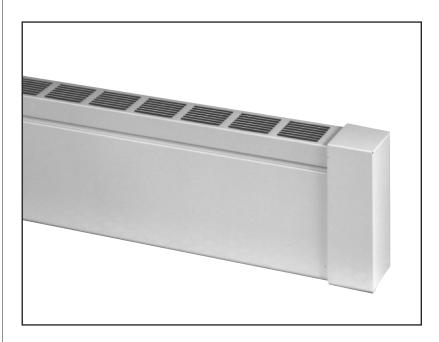




MULTI/PAK® 93

FLAT-TOP TWO-PIECE ENCLOSURE

MODELS 93-10 AND 93-17



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: 31/2"

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

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

MATERIAL: 18-gauge steel top and front cover.

11-gauge wall brackets.

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:

	93-	10	93	-17
Length	Brackets	Hangers	Brackets	Hangers
2-5 ft.	2	2	2	4
6-8 ft.	3	3	3	6

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

ELEMENTS: Copper with aluminum fins: H-1, H-3, H-4, H-5X, E-75. Steel with electro-galvanized steel fins: H-6X. Lengths from 2 to 8 ft. See p.26

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.

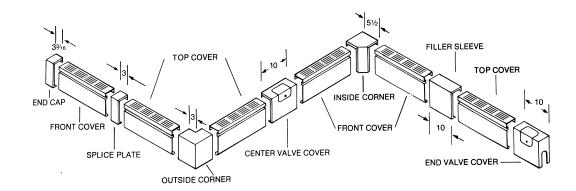


with or without dampers

			Rows of				Steam 1 PSI*	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)				ı			
Cover Type	Enclosure Height	Element Type	Heating Elements	Tube Size and Material	Fin Size and Material	Fins Per Foot	Btu/Hr. Per Foot	220° F 104° C	210° F 99° C	200° F 93° C	190° F 88° C	180° F 82° C	170° F 77° C	160° F 71° C	150° F 66° C
		H-1	1	¾" copper	3" x 31/4" alum.	48	1079	1133	1025	928	848	745	658	572	486
		H-3	1 1	¾" copper	2¾" x 2½"alum.	55	991	1041	941	852	773	684	605	525	446
93-10	9¾"	H-4	1	1" copper	3" x 2½"alum.	48	965	1013	917	830	753	666	589	511	434
		H-5X	1	1¼" copper	3" x 3¼"alum.	48	1030	1082	979	886	803	711	628	546	464
		H-6X	1	1¼" IPS Steel	3" x 31/4" steel	48	883	927	839	759	689	609	539	468	397
		E-75	1	¾" copper	25%" x 25%"alum.	55	828	869	787	712	646	571	505	439	373
		H-1	1	¾" copper	3" x 31/4" alum.	48	1182	1241	1123	1017	922	816	721	626	532
		H-3	1	¾" copper	2¾" x 2½"alum.	55	1086	1140	1032	934	847	749	662	576	489
93-17	16¾"	H-4	1	1" copper	3" x 2½"alum.	48	1057	1110	1004	909	824	729	645	560	476
		H-5X	1	1¼" copper	3" x 3¼" alum.	48	1128	1184	1072	970	880	778	688	598	508
		H-6X	1	1¼"IPS Steel	3" x 31/4" steel	48	947	994	900	814	739	653	578	502	426
		E-75	1	¾" copper	25/16" x 21/4"alum.	55	907	952	862	780	707	626	553	481	408
		H-1	2	¾" copper	3" x 31/4" alum.	48	1679	1763	1595	1444	1310	1159	1024	890	756
		H-3	2	¾" copper	2¾" x 2½"alum.	55	1543	1620	1466	1327	1204	1065	941	818	694
93-17	16¾"	H-4	2	1" copper	3" x 2½"alum.	48	1501	1576	1426	1291	1171	1036	916	796	675
Two-tier		H-5X	2	1¼" copper	3" x 3¼" alum.	48	1602	1682	1522	1378	1250	1105	977	849	721
element		H-6X	2	1¼"IPS Steel	3" x 31/4" steel	48	1435	1507	1363	1234	1119	990	875	761	646
		E-75	2	¾" copper	2‰" x 2%"alum.	55	1288	1352	1224	1108	1005	889	786	683	580

For ratings at lower water temperatures, refer to conversion table on page 29. *Based on 65°F entering air temperature.

ACCESSORIES



Fourteen accessories let you "fit" Multi/Pak 90 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)*
Hanging strip*

Tamper-proof lock Wall gasketing*

*See p.5 for details

telescopic accessories



End Cap End Cap-slotted (not shown)



Splice plate



Filler sleeve



Center valve cover



Inside corner, 90°



Outside corner, 90°

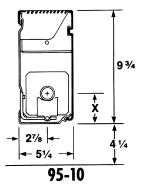


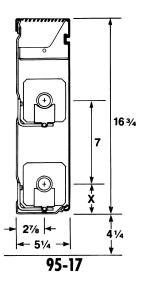
End valve cover, slotted, 10" End valve cover, 10" (not shown)





ELEMENT	Х
C-340	3
C-440	31/8
C-540	31/4
S-532	3%
S-540	3%

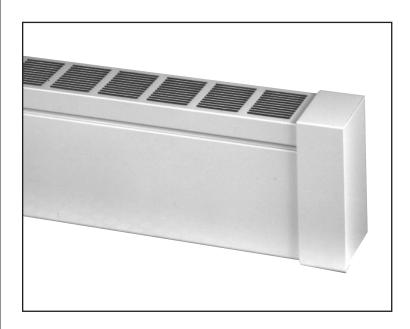




MULTI/PAK® 95

FLAT-TOP TWO-PIECE ENCLOSURE

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: 51/4"

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'. Elements from 2 to12 ft.

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

WALL BRACKETS/HANGERS: Packaged with complete assembly. SC-2 hanger has guide rod to provide 1¹⁵/₁₆" lateral expansion movement, 1¹/₆" vertical pitch adjustment. Brackets and hangers provided with complete assembly as follows:

	95-	10		-17
Length	Brackets	Hangers	Brackets	Hangers
3-5 ft.	2	2	2	4
6-8 ft.	3	3	3	6

FINISH: Nu-White baked enamel is standard. Custom color available on special order. Anodized architectural aluminum grille optional. **ELEMENTS**: Copper with aluminum fins: C-340, C-440, C-540. Steel with electro-galvanized steel fins: S-532, S-540. Lengths from 2 to 12 feet. See p. 26.

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

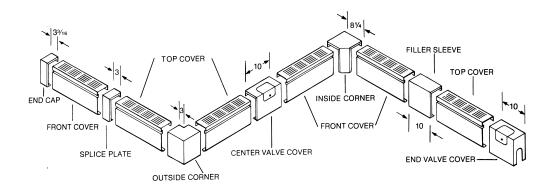


with or without dampers

Cover	F	Flormont	Tube Size	Fin Size	Steam 1 PSI * Fins Per Btu/Hr 22		HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.) 220° F 210° F 200° F 190° F 180° F 170° F 160° F 150°					. 450° 5		
Туре	Enclosure Height	Element Type	and Material	and Material	Foot	Btu/Hr. Per Foot	220° F 104° C	210° F 99° C	200 F 93° C	190 F 88° C	1 80 F 82° C	1/U F 77° C	71° C	150° F 66° C
		S-532	1¼" steel	4½" steel	32	1254	1317	1191	1078	978	865	765	665	564
		S-540	1¼" steel	4¼" steel	40	1470	1544	1397	1264	1147	1014	897	779	662
95-10	9¾"	C-340	¾" copper	4¼" alum.	40	1680	1764	1597	1445	1311	1159	1025	891	756
		C-440	1" copper	4¼" alum.	40	1780	1869	1691	1531	1388	1228	1086	943	801
		C-540	11/4" copper	4¼" alum.	40	1745	1832	1658	1501	1361	1204	1064	925	785
		S-532	1¼" steel	4¼" steel	32	1351	1419	1283	1162	1054	932	824	716	608
		S-540	11/4" steel	4¼" steel	40	1577	1656	1498	1356	1230	1088	962	836	710
95-17	16¾"	C-340	¾" copper	4¼" alum.	40	1840	1933	1748	1582	1436	1270	1123	976	828
		C-440	1" copper	4¼" alum.	40	1950	2048	1853	1677	1521	1346	1190	1034	878
		C-540	1¼" copper	4¼" alum.	40	1911	2007	1815	1643	1491	1319	1166	1013	860
		S-532	1¼" steel	4¼" steel	32	2153	2261	2045	1852	1679	1486	1313	1141	969
95-17		S-540	11/4" steel	4¼" steel	40	2390	2510	2271	2055	1864	1649	1458	1267	1076
Two-tier	16¾"	C-340	¾" copper	4¼" alum.	40	2615	2746	2484	2249	2040	1804	1595	1386	1177
element		C-440	1" copper	4¼" alum.	40	2770	2909	2632	2382	2161	1911	1690	1468	1247
		C-540	11/4" copper	4¼" alum.	40	2715	2851	2579	2335	2118	1873	1656	1439	1222

For ratings at lower water temperatures, refer to conversion table on page 29. *Based on 65°F entering air temperature.

ACCESSORIES



Fourteen accessories let you "fit" Multi/Pak 90 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)* Hanging strip*

Tamper-proof lock Wall gasketing*

*See p.5 for details

telescopic accessories



End Cap End Cap-slotted (not shown)



Splice plate



Filler sleeve







Outside corner, 90°



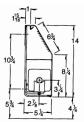
End valve cover, slotted, 10" End valve cover, 10" (not shown)

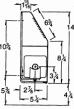


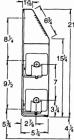
Custom Heights & Configurations
Available

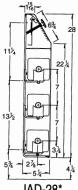
Details for optional shown on mode











JAD-28³

J SERIES

SLOPE-TOP ONE-PIECE ENCLOSURE

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



ORDERING DATA

CONSTRUCTION: Single-piece cover mounts on wall brackets

DEPTH: 51/4"

HEIGHTS: 9\%" and 14"(one tier), 21" (one or two

tier), 28" (up to three tier)

LENGTHS: 2', 3', 3½', 4', 5', 6', 7', 8'. Other ½'

lengths available to order.

MATERIAL: 18-gauge front cover. 16 and 14-gauge

optional. Optional back panel: 20-gauge.

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:

Length	Copper Elements	11/4" Steel Elements	2" Steel Elements
2-5 ft.	2	1 per 2½'	1 per 2'
6-8 ft.	3	of cover	ts Elements ½' 1 per 2'

FINISH: Electro-galvanized is standard. Baked enamel finishes in a variety of colors available on special order, all models.

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.

JOINTS: Slip joint connectors (JR models only) 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 and JA-21 models mount flush with the wall. For readily available prepackaged two-piece fin-tube radiation refer to Multi/Pak 90, pages 4-11. JR-10, JR-14, JR-21 and JR-28 models utilize a full or 4 inch back panel. Allows for 3/4" recess into wall and protects wall covering in case removing of enclosure is necessary. Electro-galvanized 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.

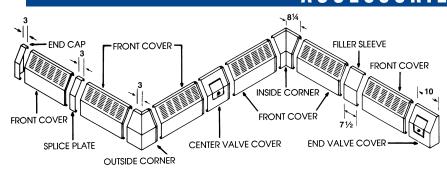
- · Pencil-proof louvers minimize "see through".
- Heavy duty 14-gauge wall bracket is drawn die formed. Secures cover in place with rigid spring lock action. Snap-in center brace supports middle of cover.
- Bracket mounting slots provide 3/4" height adjustment. Large recessed "flat" prevents bracket from crushing wall surface when back panel is not used.
- · Element hanger has sliding guide rod that provides full cradle width support. 15/16" lateral movement permits smooth, noiseless expansion. Cradle supports finned or bare tubing at same height. Fastening slot in bracket allows 11/8" pitch adjustment.
- Knob-operated damper (optional) modulates fully to control output. See page 5 for details.

with or without dampers

						Steam 1 PSI *		В	HOT STU/HR./I	WATER			.)	
Cover Type	Enclosure Height	Element Type	Tube Size and Material	Fin Size and Material	Fins Per Foot	Btu/Hr. Per Foot	220° F 104° C	210° F 99° C	200° F 93° C	190° F 88° C	180° F 82° C	170° F 77° C	160° F 71° C	150° F 66° C
JL-10 JR-10	97/8"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	1330 1430 1350 1753 1860 1820	1397 1502 1418 1840 1953 1911	1264 1359 1283 1665 1767 1729	1144 1230 1161 1507 1600 1565	1037 1115 1053 1367 1451 1420	918 987 931 1210 1283 1256	811 872 824 1069 1135 1110	705 758 716 929 986 965	599 644 608 789 837 819
JA-14 JR-14	14"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	1380 1550 1400 1839 1950 1910	1449 1628 1470 1932 2048 2006	1311 1473 1330 1748 1853 1815	1187 1333 1204 1582 1677 1643	1076 1209 1092 1435 1521 1490	952 1070 966 1269 1346 1318	842 946 854 1122 1190 1165	731 822 742 975 1034 1012	621 698 630 828 878 860
JA-21 JR-21	21"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	1460 1680 1520 2013 2130 2090	1533 1764 1596 2114 2237 2195	1387 1596 1444 1913 2024 1986	1256 1445 1307 1731 1832 1797	1139 1310 1186 1570 1661 1630	1007 1159 1049 1389 1470 1442	891 1025 927 1228 1299 1275	774 890 806 1067 1129 1108	657 756 684 906 959 941
JA-21 JR-21 Two-tier element	21"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	2190 2380 2270 2822 2990 2930	2300 2499 2384 2963 3140 3077	2081 2261 2157 2784 2841 2784	1883 2047 1952 2427 2571 2520	1708 1856 1771 2200 2332 2285	1511 1642 1566 1947 2063 2022	1336 1452 1385 1721 1824 1787	1161 1261 1203 1496 1585 1553	986 1071 1022 1270 1346 1319
JA-28 JR-28	28"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	1480 1710 1550 2051 2170 2130	1554 1796 1628 2154 2279 2237	1406 1625 1473 1949 2062 2024	1273 1471 1333 1764 1866 1832	1154 1334 1209 1600 1693 1661	1021 1180 1070 1416 1497 1470	903 1043 946 1251 1324 1299	784 906 822 1087 1150 1129	666 770 698 924 977 959
JA-28 JR-28 Two-tier element	28"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	2290 2510 2430 2937 3110 3050	2405 2636 2552 3084 3266 3203	2176 2385 2309 2791 2955 2898	1969 2159 2090 2526 2675 2623	1786 1958 1895 2291 2426 2379	1580 1732 1677 2027 2146 2105	1397 1531 1482 1792 1897 1861	1214 1330 1288 1557 1648 1617	1031 1130 1094 1322 1400 1373
JA-28 JR-28 Three-tier element	28"	S-532 S-540 S-832 C-340 C-440 C-540	1¼" steel 1¼" steel 2" steel ¾" copper 1" copper 1¼" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	2830 2930 2880 3467 3670 3600	2972 3077 3024 3640 3854 3780	2689 2784 2736 3293 3487 3420	2434 2520 2477 2981 3156 3096	2207 2285 2246 2704 2863 2808	1953 2022 1987 2392 2532 2484	1726 1787 1757 2115 2239 2196	1500 1553 1526 1837 1945 1908	1274 1319 1296 1560 1652 1620

Based on 65°F entering air temperature. For ratings at lower water temperatures, refer to conversion table on page 29.

ACCESSORIES



A complete range of accessories lets you "fit" J-series in virtually any space configuration - fast and easily. Cover accessories are all telescopic. They snap in place without screws or other fasteners. All accessories have gray prime finish. Custom color available on special order.

non-telescopic accessories

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

Tamper-proof lock Wall gasketing*

*See p.5 for details

telescopic accessories



End Cap End Cap-slotted (not shown)



Splice plate



Filler sleeve



Center valve cover



Inside corner, 90°



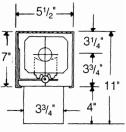
Outside corner, 90°



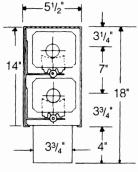
End valve cover, slotted, 10" End valve cover, 10" (not shown)



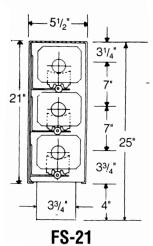
Custom Heights & Configurations Available



FS-7



FS-14



FS SERIES

FREE STANDING ENCLOSURE

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



ORDERING DATA

CONSTRUCTION: Single piece cover mounts on floor pedestals.

DEPTH: 51/2"

INSTALLED HEIGHTS: 11" (one tier), 18" (one

or two tier), 25" (up to three tier)

LENGTHS: 2', 3', 31/2', 4', 5', 6', 7', 8'. Other 1/2'

lengths available to order.

MATERIAL: FS-7: 18-ga std., 16-ga and 14-ga optional. **FS-14 and FS-21:** 16-ga std., 14-ga

optional.

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

Recommended number of brackets and hangers for given length.									
Element	2	3	4						
S-532	2-5 ft.	6-7 ft.	8 ft.						
S-540	2-5 ft.	6-7 ft.	8 ft.						
S-832	2-5 ft.	6 ft.	7-8 ft.						
C-340	2-5 ft.	6-7 ft.	8 ft.						
C-440	2-5 ft.	6-7 ft.	8 ft.						
C-540	2-5 ft.	6-7 ft.	8 ft.						

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

FINISH: Electro-galvanized standard. Custom color baked enamel available on special order. Anodized architectural aluminum grille optional. Stainless steel escutcheon for pedestals standard. 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 to12 feet. See p. 26.

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.

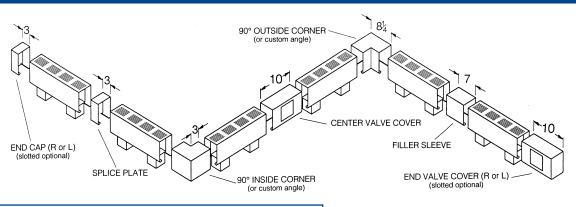
OPTIONS

Heavier gauge cover. Access door, field installed. Architectural aluminum grille. Custom color.

					Steam 1 PSI *	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)							
Cover Type	Cover Type	Element Type	Tube Size and Material	Fins Per Foot		220° F 104° C	210° F 99° C	200° F 93° C	190° F 88° C	180° F 82° C	170° F 77° C	160° F 71° C	150° F 66° C
		S-532	1¼" steel	32	1290	1355	1226	1109	1006	890	787	684	581
		S-540	1¼" steel	40	1390	1460	1321	1195	1084	959	848	737	626
		S-832	2" steel	32	1315	1381	1249	1131	1026	907	802	697	592
FS-7	7"	C-340	¾" copper	40	1579	1658	1500	1358	1232	1090	963	837	711
		C-440	1" copper	40	1670	1754	1587	1436	1303	1152	1019	885	752
		C-540	11/4" copper	40	1640	1722	1558	1410	1279	1132	1000	869	738
		S-532	1¼" steel	32	1330	1397	1264	1144	1037	918	811	705	599
		S-540	1¼" steel	40	1540	1617	1463	1324	1201	1063	939	816	693
		S-832	2" steel	32	1365	1433	1297	1174	1065	942	833	723	614
FS-14	14"	C-340	¾" copper	40	1782	1871	1693	1532	1390	1230	1087	945	802
		C-440	1" copper	40	1890	1985	1796	1625	1474	1304	1153	1002	851
		C-540	11/4" copper	40	1850	1943	1758	1591	1443	1277	1129	981	833
_		S-532	1¼" steel	32	1850	1943	1758	1591	1443	1277	1129	981	833
FS-14		S-540	1¼" steel	40	1955	2053	1857	1681	1525	1349	1193	1036	880
Two-tier		S-832	2" steel	32	1775	1864	1686	1527	1385	1225	1083	941	799
element/	14"	C-340	3/4" copper	40	2311	2427	2196	1988	1803	1595	1410	1225	1040
		C-440	1" copper	40	2450	2573	2328	2107	1911	1690	1495	1299	1103
		C-540	1¼" copper	40	2400	2520	2280	2064	1872	1656	1464	1272	1080
		S-532	1¼" steel	32	1610	1691	1530	1385	1256	1111	982	853	725
		S-540	1¼" steel	40	1675	1759	1591	1441	1307	1156	1022	888	754
FS-21	21"	S-832	2" steel	32	1575	1654	1496	1355	1229	1087	961	832	709 903
F3-Z1	21	C-340 C-440	3/" copper 1" copper	40	2008 2130	2108 2237	1908 2024	1727 1832	1566 1661	1386 1470	1225 1299	1064 1129	959
		C-440 C-540	1½" copper	40	2085	2189	1981	1793	1626	1439	1272	1105	938
		S-532	1½" steel	32	2140	2247	2033	1840	1669	1477	1305	1134	963
FS-21		S-532	1½" steel	40	2245	2357	2133	1931	1751	1549	1369	1190	1010
Two-tier		S-832	2" steel	32	2105	2210	2000	1810	1642	1452	1284	1116	947
element/	21"	C-340	34" copper	40	2648	2781	2507	2277	2066	1827	1616	1404	1192
Cicinoni		C-440	1" copper	40	2810	2951	2670	2417	2192	1939	1714	1489	1265
		C-540	11/4" copper	40	2750	2888	2613	2365	2145	1897	1678	1458	1238
		S-532	1½" steel	32	2380	2499	2261	2047	1856	1642	1452	1261	1071
FS-21		S-540	1¼" steel	40	2540	2667	2413	2184	1981	1753	1549	1346	1143
Three-tier		S-832	2" steel	32	2300	2415	2185	1978	1794	1587	1403		1035
element/	21"	C-340	¾" copper	40	3005	3155	2854	2584	2344	2073	1833	1593	1352
		C-440	1" copper	40	3180	3339	3021	2735	2480	2194	1940	1685	1431
		C-540	11/4" copper	40	3120	3276	2964	2683	2434	2153	1903	1654	1404

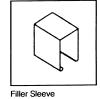
*Based on 65°F entering air temperature. For ratings at lower water temperatures, refer to conversion table on page 29.

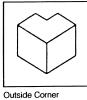
ACCESSORIES



telescopic accessories













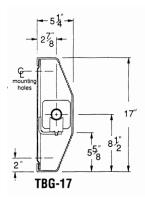


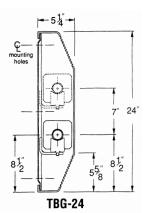
Inside Corner Center Valve Cover

e Plate End Valve Cover



Custom Heights & Configurations Available





TBG SERIES

SLOPE-TOP/BOTTOM ENCLOSURES



ORDERING DATA

CONSTRUCTION: Single piece cover mounts on wall brackets.

DEPTH: 51/4"

HEIGHTS: 17" (one tier), 24" (one or two tier) **LENGTHS**: 2', 3', 3½', 4', 5', 6', 7', 8'. Other ½'

lengths available to order

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

Recommended number of brackets and hangers for given length.										
Element	2	3	4							
S-532	2-5 ft.	6-7 ft.	8 ft.							
S-540	2-5 ft.	6-7 ft.	8 ft.							
S-832	2-5 ft.	6 ft.	7-8 ft.							
C-340	2-5 ft.	6-7 ft.	8 ft.							
C-440	2-5 ft.	6-7 ft.	8 ft.							
C-540	2-5 ft.	6-7 ft.	8 ft.							

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

FINISH: Electro galvanized standard. Custom color baked enamel available on special order. Anodized architectural aluminum grille optional.

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. See p. 26.

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.

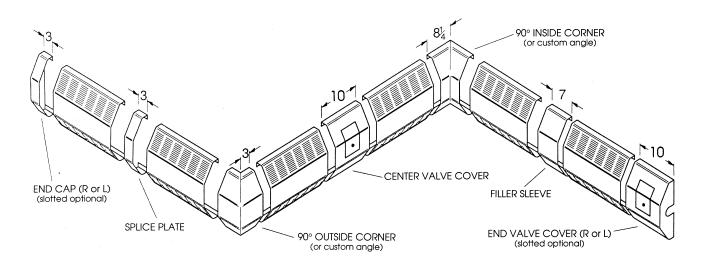
OPTIONS

14-gauge cover. Access door, field installed. Architectural aluminum grille. Custom color.

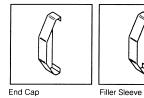
					Steam	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)							
Cover Type	Enclosure Height	Element Type	Tube Size and Material	Fins Per Foot	Btu/Hr. Per Foot		210° F 99° C	200° F 93° C	190° F 88° C	180° F 82° C	170° F 77° C	160° F 71° C	1 50° F 66° C
		S-532	1¼" steel	32	1250	1313	1188	1075	975	862	763	663	563
		S-540	1¼" steel	40	1344	1411	1277	1156	1048	927	820	712	605
		S-832	2" steel	32	1201	1261	1141	1033	937	829	733	637	540
TBG-17	17"	C-340	¾" copper	40	1595	1675	1515	1371	1244	1101	973	846	717
		C-440	1" copper	40	1690	1775	1606	1453	1318	1166	1031	896	761
		C-540	11/4" copper	40	1656	1739	1573	1424	1292	1143	1010	878	745
		S-532	1¼" steel	32	1460	1533	1387	1256	1139	1007	891	774	657
		S-540	1¼" steel	40	1505	1580	1430	1294	1174	1038	918	798	677
		S-832	2" steel	32	1345	1412	1278	1157	1049	928	820	713	605
TBG-24	24"	C-340	¾" copper	40	1749	1888	1709	1547	1403	1241	1097	953	810
		C-440	1" copper	40	1910	2006	1815	1643	1490	1318	1165	1012	860
		C-540	1¼" copper	40	1868	1961	1775	1606	1457	1289	1139	990	841
		S-532	1¼" steel	32	1980	2079	1881	1703	1544	1366	1208	1049	891
		S-540	1¼" steel	40	2102	2207	1997	1808	1640	1450	1282	1114	946
TBG-24		S-832	2" steel	32	1890	1985	1796	1625	1474	1304	1153	1002	851
Two-tier	24"	C-340	¾" copper	40	2337	2454	2221	2010	1823	1613	1425	1238	1052
element		C-440	1" copper	40	2480	2604	2356	2133	1934	1711	1513	1314	1116
		C-540	1¼" copper	40	2427	2548	2306	2087	1893	1675	1480	1286	1092

*Based on 65°F entering air temperature. For ratings at lower water temperatures, refer to conversion table on page 29.

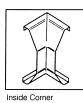
ACCESSORIES

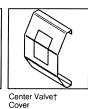


TELESCOPIC ACCESSORIES















End Valve† Cover

Slotted End Cap

† Access doors: 5" x 9"

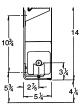


Custom Heights & Configurations Available

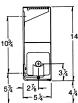
*Details for optional R-Series Damper shown on model RTD-28



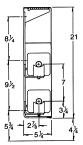
RI -10



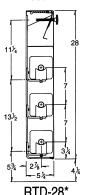
RR-14



RT-14

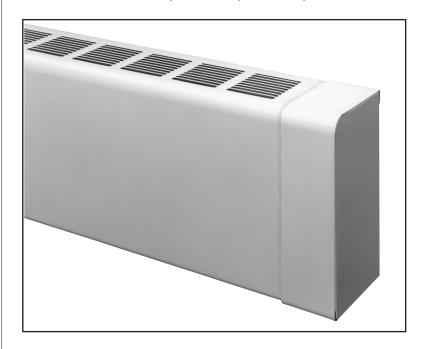


RT-2



R SERIES
FLAT-TOP ENCLOSURE

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



ORDERING DATA

CONSTRUCTION: Single piece cover mounts on wall brackets.

DEPTH: 51/4"

HEIGHTS: 9%", 14" (one tier), 21" (one or two tier),

28" (up to three tier).

LENGTHS: 2', 3',3½', 4', 5', 6', 7', 8'. Other ½'

lengths available to order.

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.

Recommended	number of bracke	ts and hangers f	or given length.
Element	2	3	4

Element	2	3	4
S-532	2-4 ft.	5-7 ft.	8 ft.
S-540	2-4 ft.	5-7 ft.	8 ft.
S-832	2-4 ft.	5-6 ft.	7-8 ft.
C-340	2-5 ft.	6-8 ft.	_
C-440	2-5 ft.	6-8 ft.	_
C-540	2-5 ft.	6-8 ft.	_

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

FINISH: Electro galvanized standard. Custom color baked enamel available on special order. Anodized architectural aluminum grille optional.

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. See p. 26.

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.

RR-10, RR-14, RR-21 and RR-28 are special order models and require a full or 4 inch back panel. Allows for ¾" recess into wall and protects wall covering in case removing of enclosure is necessary. Electro-galvanized finish is standard. Optional baked enamel finish available.

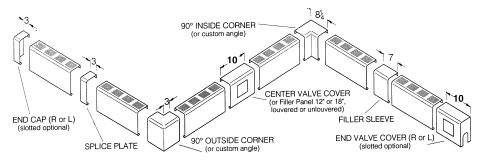
OPTIONS

Damper.
Back panel.
16 and 14-gauge cover.
Access door, field installed.
Inlet grille.
Architectural aluminum grille.
Custom color.

					Steam HOT WATER RATINGS* 1 PSI * BTU/HR./FT. (Flow Rate 3 Ft./Sec.)								
Cover Type	Enclosure Height	Element Type	Tube Size and Material	Fins Per Foot	Btu/Hr. Per Foot	220° F 104° C	210° F 99° C	200° F 93° C	190° F 88° C	180° F 82° C	170° F 77° C	160° F 71° C	150° F 66° C
		S-532	1¼" steel	32	1230	1292	1169	1058	959	849	750	652	554
		S-540	1¼" steel	40	1330	1397	1264	1144	1037	918	811	705	599
RL-10		S-832	2" steel	32	1270	1334	1207	1092	991	876	775	673	57
RR-10	9 %"	C-340	¾" copper	40	1647	1730	1565	1417	1285	1136	1004	872	742
		C-440 C-540	1" copper	40 40	1740	1827	1653 1625	1496 1471	1357 1334	1201	1061 1043	922 906	783 770
-			1¼" copper		1710	1796				1180			<u> </u>
		S-532	1½" steel	32	1280	1344	1216	1101	998	883	781	678	576
RT-14		S-540 S-832	1¼" steel 2" steel	40 32	1500 1320	1575 1386	1425 1254	1290 1135	1170 1030	1035 911	915 805	795 700	675 594
RR-14	14"	C-340	34" copper	40	1714	1800	1628	1474	1337	1183	1046	908	771
1111-14	14	C-440	1" copper	40	1820	1911	1729	1565	1420	1256	1110	965	819
		C-540	1½" copper	40	1780	1869	1691	1531	1388	1228	1086	943	801
		S-532	1¼" steel	32	1380	1449	1311	1187	1076	952	842	731	621
		S-540	1½" steel	40	1610	1691	1530	1385	1256	1111	982	853	725
RT-21		S-832	2" steel	32	1460	1533	1387	1256	1139	1007	891	774	657
RR-21	21"	C-340	34" copper	40	1878	1972	1784	1615	1465	1296	1146	996	846
		C-440	1" copper	40	1990	2090	1891	1711	1552	1373	1214	1055	896
		C-540	1¼" copper	40	1950	2048	1853	1677	1521	1346	1190	1034	878
RT-21		S-532	1¼" steel	32	2200	2310	2090	1892	1716	1518	1342	1166	990
RR-21		S-540	1¼" steel	40	2440	2562	2318	2098	1903	1684	1488	1293	1098
Two-tier		S-832	2" steel	32	2230	2342	2119	1918	1739	1539	1360	1182	1004
element	21"	C-340	34" copper	40	2668	2801	2535	2294	2081	1840	1627	1414	1201
		C-440	1" copper	40	2830	2972	2689	2434	2207	1953	1726	1500	1274
		C-540	11/4" copper	40	2770	2909	2632	2382	2161	1911	1690	1468	1247
RT-28		S-532	1¼" steel	32	1400	1470	1330	1204	1092	966	854	742	630
RR-28		S-540	1¼" steel	40	1680	1764	1596	1445	1310	1159	1025	890	756
	28"	S-832	2" steel	32	1480	1554	1406	1273	1154	1021	903	784	666
	28	C-340 C-440	34" copper 1" copper	40 40	1907 2020	2002	1811 1919	1640 1737	1487 1576	1315 1394	1163 1232	1010 1071	858 909
		C-440 C-540	1½" copper	40	1980	2079	1881	1703	1544	1366	1208	1049	891
RT-28		S-532 S-540	1¼" steel 1¼" steel	32 40	2260 2460	2373 2583	2147 2337	1944 2116	1763 1919	1559 1697	1379 1501	1198 1304	1017 1107
RR-28		S-540 S-832	2" steel	32	2270	2384	2157	1952	1771	1566	1385	1203	1022
Two-tier	28"	C-340	3/4" copper	40	2860	3004	2718	2460	2231	1973	1745	1516	1288
element		C-440	1" copper	40	3030	3182	2879	2606	2363	2091	1848	1606	1364
0.0		C-540	1¼" copper	40	2970	3119	2822	2554	2317	2049	1812	1574	1337
		S-532	1¼" steel	32	2580	2709	2451	2219	2012	1780	1574	1367	1161
RT-28		S-540	1¼" steel	40	2800	2940	2660	2408	2184	1932	1708	1484	1260
RR-28		S-832	2" steel	32	2660	2793	2527	2288	2075	1835	1623	1410	1197
Three-tier	28"	C-340	¾" copper	40	3390	3559	3220	2915	2644	2339	2068	1797	1525
element		C-440	1" copper	40	3590	3770	3411	3087	2800	2477	2190	1903	1616
		C-540	1¼" copper	40	3520	3696	3344	3027	2746	2429	2147	1866	1584
		'	•	1	'			ı	1	•	•		•

*Based on 65°F entering air tempera-ture. For ratings at lower water tempera-tures, refer to conversion table on page 29.

ACCESSORIES



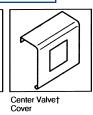
telescopic accessories

















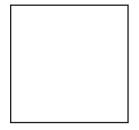
End Valve† Cover

Slotted End Cap

End Cap Filler Sleeve

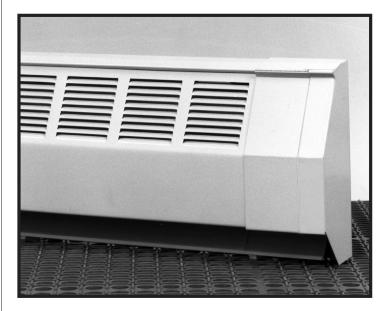
Outside Corner





350L SERIES

HIGH OUTPUT, SLOPE-TOP **BASEBOARD**



350L 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 11/4" copper/aluminum elements permit higher flow rates, longer series-loop runs and lower pump loads where required. With the 11/4" all-steel element, Series 350L is perfect for use in one or two pipe steam systems. 350L Series is factory pre-assembled in individual cartons for rapid installations.

- Interchangeable heating elements
- Room control damper optional
- Double-bent aluminum fins won't loosen
- Expansion noises banished
- Extra backbone
- Dent-proof, kick-proof front panel
- Stronger tubes for longer service

HEAVY-DUTY CONSTRUCTION: 350L 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. 350L 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 wallto-wall installations without cutting.

ORDERING DATA

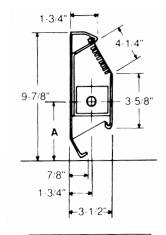
PACKAGING: 350L Series baseboard cover and heating elements are packaged separately. Cover includes brackets and expansion guides. Cover may be ordered with optional fully modulating damper. CONSTRUCTION: Back panel, front cover and optional damper fully assembled at factory, ready to fasten to the wall.

DEPTH: 31/2" HEIGHT: 97/8"

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

MATERIAL: 19-gauge or 16-gauge steel front cover. 24-gauge back cover. 17-gauge brackets. **ELEMENT SUPPORT:** Self-adjusting, polypropylene expansion cradles are positioned over support brackets, allowing quiet expansion.

FINISH: Nu-White (19 ga.); electro-gal. (16 ga.) **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 26.

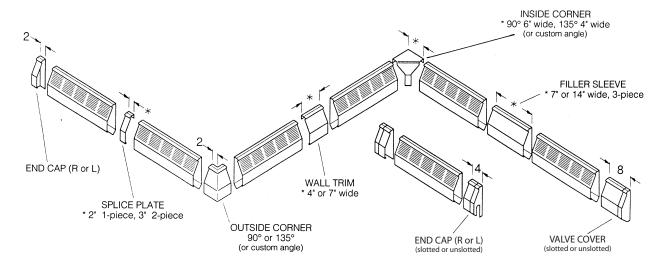


Model	Element	"A"
351	H-1	3 5/8"
353	H-3	3 15/16"
354	H-4	3 15/16"
355	H-5	3 5/8"
356	H-6	3 5/8"

				Fins			Steam 1 PSI	HOT WATER RATINGS* BTU/HR./FT.							
Model Number	Element Type	Tube Size and Material	Fin Size and Material	Per Foot	Water Flow	Pressure Drop †	Btu/Hr. Per Foot	220° F 104° C	210° F 99° C	200° F 93° C	190° F 88° C	180° F 82° C	170° F 77° C	160° F 71° C	150° F 66° C
351	H-1	3/4" copper	3" x 3½" x .024 aluminum	48	1 GPM 4 GPM	47 525		1323 1397	1197 1264	1084 1144	983 1037	869 918	769 811	668 705	567 599
353	Н-3	3/4" copper	3½" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525		1217 1289	1101 1167	997 1056	904 958	800 847	707 749	614 651	522 553
354	H-4	1" copper	3½" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145	_	1217 1289	1101 1167	997 1056	904 958	800 847	707 749	614 651	522 553
355	H-5X	1-1/4" copper	3" x 3¼" x .020" aluminum	48	1 GPM 4 GPM	6 63	1160	1265 1338	1145 1210	1036 1096	940 994	831 879	735 777	639 675	542 573
356	H-6X	1-1/4" IPS steel	3" x 31/4" x .028 electro-gal. steel	48	1 GPM 4 GPM	3 41	980	1085 1146	981 1036	888 938	806 851	713 753	630 666	547 578	465 491

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

ACCESSORIES



Matching snap-on accessories lets 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

















Outside Corner End Cap Filler Sleeve

Valve Cover

Splice Plate

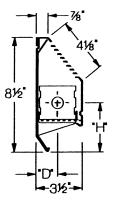
4" Hinged End Cap slotted or unslotted

Note: Ratings are based on active finned length (3" less than overall length), and include 15 % heating effect factor.

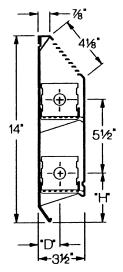
Use 4 GPM ratings only when flow is known to be equal to or greater than 4 GPM, otherwise 1 GPM ratings must be used.



Custom Heights & Configurations Available



HD-850



HD-1400

Element	"H"	"D"
H-1	41/ ₁₆ "	13/4"
H-3, H-4	35/8"	15/8"
H-5	4"	13/4"

HD SERIES HEAVY DUTY, 16 GUAGE SLOPE-TOP BASEBOARD



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 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 screws at each bracket location. Optional 1" and 11/4" copper/aluminum elements permit higher flow rates, longer series-loop runs and lower pump loads where required. With the 11/4" all-steel element, HD Series is perfect for use in one or two pipe steam systems. HD Series is factory 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 %" self tapping screws with countersunk head as supplied by others. Pencil proof.

HEIGHTS: 8½" (one tier), 14" (one or two tier) **LENGTHS**: 2', 3', 3½', 4', 5', 6', 7', 8'. Other ½' lengths

available to order

MATERIAL: 16-gauge steel front cover, 20-gauge back

FINISH: Electro-galvanized is standard. Available in baked enamel. 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.26.

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.

		Rows of	Tube		Fins			Stream 1PSI*	HOT WATER RATINGS* BTUH/HR./FT.							
Model Number	Element Type	Heating Element	Size and Material	Fin Size and Material	per Foot	Water Flow	Pressure Drop†	Btuh/Hr. Per Foot		210°F 99°C	200°F 93°C	190°F 88°C	180°F 82°C	170°F 77°C	160°F 71°C	150°F 66°C
HD-850‡	H-1	1	¾" copper	3¼" x 4" x .024" aluminum	48	1 GPM 4 GPM	47 525	_	1050 1110	970 1030	890 940	800 850	720 760	640 680	550 580	470 500
HD-850‡	H-3	1	¾" copper	2½" x 2¾" x .011" aluminum	55	1 GPM 4 GPM	47 525	_	940 990	870 920	790 840	720 760	640 680	570 600	490 520	420 440
HD-850	H-4	1	1" copper	31%6" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145	_	1030 980	860 1000	780 830	710 750	630 670	560 590	460 500	41 430
HD-850	H-5	1	1¼" copper	3" x 3¼" x .020" aluminum	48	1 GPM 4 GPM	6 63	1160	1010 1070	920 980	860 880	770 810	680 710	600 640	550 560	430 460
HD-850	H-6	1	1½" IPS steel	3" x 31/4" x .025" electro-gal. steel	48	1 GPM 4 GPM	3 41	980	850 900	780 830	710 750	640 680	570 600	510 540	440 450	360 370
HD-1400‡	H-1	2	¾" copper	31/4" x 3" x .024" aluminum	48	1 GPM 4 GPM	47 525	-	1570 1660	1450 1530	1320 1400	1190 1260	1070 1130	940 990	820 870	690 730
HD-1400‡	H-3	2	¾" copper	2½" x 2¾" x .011" electro-gal. steel	55	1 GPM 4 GPM	47 525	-	1460 1540	1340 1420	1230 1300	1110 1170	1000 1060	880 930	770 810	650 690
HD-1400	H-4	2	1" copper	315/2" x 21/2" x .011" aluminum	48	1 GPM 4 GPM	13 145	_	1440 1480	1330 1400	1220 1290	1100 1160	990 1050	870 920	740 790	64 680
HD-1400	H-5	2	1¼" copper	3" x 3¼" x .020" aluminum	48	1 GPM 4 GPM	6 63	1630	1530 1620	1400 1480	1290 1340	1160 1220	1030 1080	900 950	820 850	650 690
HD-1400	H-6	2	1¼" IPS steel	3" x 31/4" x .025" electro-gal. steel	48	1 GPM 4 GPM	3 41	1440	1370 1450	1260 1330	1140 1210	1030 1090	920 970	810 850	710 740	580 600

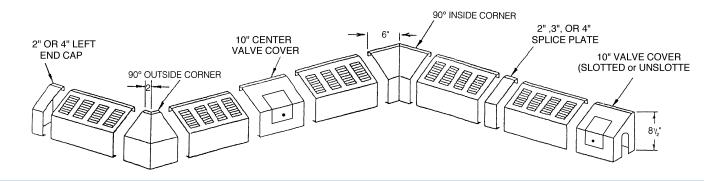
^{*} Based on 65°F entering air temperature.

‡ I=B=R listed ratings.

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



FINE/LINE 30H

HEAVY DUTY, 18-GAUGE BASEBOARD RADIATION

The heavier duty version of Fine/Line 30.

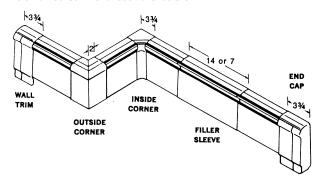


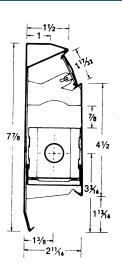
Fine/Line 30H is the heavier duty version of Fine/Line 30, the standard of the baseboard heating industry. In addition to a heavier front panel, Fine/Line 30H is equipped with an additional support bracket in 6', 7' and 8' lengths for extra stength.

CONSTRUCTION: Complete baseboard package includes 18 gauge front cover, support brackets, back panel, damper, heating element wih expansion cradles. **FINISH**: Nu-White baked enamel.

OUTPUT: 860 Btu/hr./ft. at 215° water temperature, 4 g.p.m. flow.

Refer to Pub. 30H-10 for additional details.

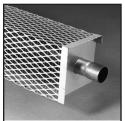




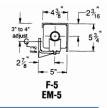
[†] Millinches per foot.

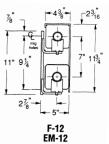
Slant Fin.

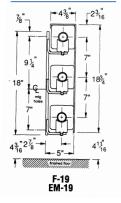








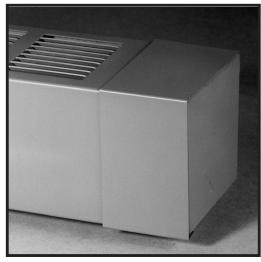


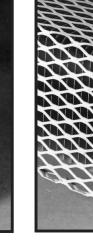


Element positions shown maximize output of enclosure. Single or double rows of elements may be placed in any of the two or three positions. Element position is adjustable vertically by 11/8" and horizontally by 15/16".

F & EM SERIES

LOUVERED AND EXPANDED METAL ELEMENT COVERS





EM SERIES

F SERIES

ORDERING DATA

CONSTRUCTION: Single piece cover attaches directly to element.

DEPTH: 43/8"

HEIGHTS: 4¾" (one tier), 11¾" (two tier),18¾" (three tier)

LENGTHS: 2', 3', 3½', 4', 5', 6', 7', 8'. Other ½' lengths available to order.

MATERIAL: 18-gauge cover, 16-gauge optional. WALL BRACKETS/HANGERS: Order separatly, specify BKT (bracket only) or BKT ASSY (bracket complete with SC hangers) followed by cover stock number and quantity.

FINISH: Electro-galvanized standard. Available in baked enamel.

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. See p. 26.

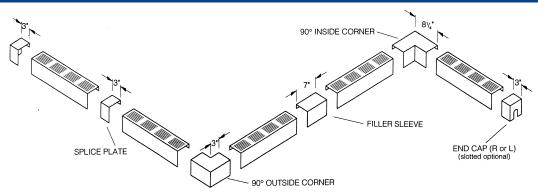
JOINTS: Telescopic accessories eliminate the need to perfectly butt one length of cover to the next. Critical linear and vertical tolerances are eliminated because telescopic assembly absorbs misalignment that might result from uneven floors and walls.

Recommended number of brackets and hangers for given length.											
Element 2 3 4											
S-532 2-4 ft. 5-7 ft. 8 ft.											
S-540	2-4 ft.	5-7 ft.	8 ft.								
S-832	2-4 ft.	5-6 ft.	7-8 ft.								
C-340	2-5 ft.	6-8 ft.	-								
C-440 2-5 ft. 6-8 ft. –											
C-540 2-5 ft. 6-8 ft. –											

^{*} Based on 65°F entering air temperature. For ratings a t lower water temperature, refer to conversion table on page 29.

				Fins	Stream 1PSI*	HOT WATER RATINGS* BTUH/HR./FT. (Flow Rate 3 Ft./Sec.)							
Model Number	Enclosure Height	Element Type	Tube Size and Material	per Foot	Btuh/Hr. Per Foot	220°F 104°C	220°F 104°C	220°F 104°C	220°F 104°C	210°F 99°C	200°F 93°C	190°F 88°C	180°F 82°C
		S-532	1¼" steel	32	1250	1313	1188	1075	975	862	763	663	563
		S-540	1¼" steel	40	1340	1407	1273	1152	1045	925	817	710	603
		S-832	2" steel	32	1280	1344	1216	1101	998	883	781	678	576
F-5	4¾"	C-340	¾" copper	40	1560	1638	1482	1341	1217	1077	951	827	702
		C-440	1" copper	40	1650	1733	1568	1419	1287	1139	1007	875	743
		C-540	11/4" copper	40	1620	1701	1539	1393	1264	1118	988	859	729
		S-532	1¼" steel	32	2070	2174	1967	1780	1615	1428	1263	1097	932
		S-540	1¼" steel	40	2160	2268	2052	1858	1685	1490	1318	1145	972
F-12		S-832	2" steel	32	2090	2195	1986	1797	1630	1442	1275	1108	941
Two-tier	11¾"	C-340	¾" copper	40	2600	2730	2470	2236	2028	1794	1586	1378	1170
element.		C-440	1" copper	40	2750	2888	2613	2365	2145	1897	1678	1458	1238
		C-540	11/4" copper	40	2700	2835	2565	2322	2106	1863	1647	1431	1215
		S-532	1¼" steel	32	2580	2709	2451	2219	2012	1780	1574	1367	1161
		S-540	1¼" steel	40	2690	2825	2556	2313	2098	1856	1641	1426	1211
F-19		S-832	2" steel	32	2610	2741	2480	2245	2036	1801	1592	1383	1175
Three-tier	18¾"	C-340	¾" copper	40	3139	3296	2982	2700	2449	2166	1915	1664	1413
element.		C-440	1" copper	40	3330	3497	3164	2864	2597	2298	2031	1765	1499
		C-540	11/4" copper	40	3260	3423	3097	2804	2543	2249	1989	1728	1467
		S-532	1¼" steel	32	1290	1355	1226	1109	1006	890	787	684	581
		S-540	1¼" steel	40	1370	1439	1302	1178	1069	945	836	726	617
	40.00	S-832	2" steel	32	1310	1376	1245	1127	1022	904	799	694	590
EM-5	4¾"	C-340	¾" copper	40	1656	1739	1574	1424	1292	1143	1010	878	745
		C-440 C-540	1" copper	40	1750 1720	1838	1663	1505	1365	1208	1068	928	788
			1¼" copper	40		1806	1634	1479	1342	1187	1049	912	774
		S-532	1¼" steel	32	2270	2384	2157	1952	1771	1566	1385	1203	1022
		S-540	1¼" steel	40	2390	2510	2271	2055	1864	1649	1458	1267	1076
EM-12	11¾"	S-832 C-340	2" steel	32	2290	2405 3064	2176	1969	1786	1580	1397	1214	1031 1314
EIVI-12	1 1 1 74"	C-340	3/" copper 1" copper	40 40	2918 3090	3245	2772 2936	2510 2657	2276 2410	2014	1780 1885	1547 1638	1314
		C-540	1½" copper	40	3030	3182	2879	2606	2363	2091	1848	1606	1364
												-	
		S-532 S-540	1¼" steel 1¼" steel	32 40	3060 3140	3213 3297	2907 2983	2632 2700	2387 2449	2111 2167	1867 1915	1622 1664	1377 1413
		S-832	2" steel	32	3080	3234	2926	2649	2449	2125	1879	1632	1386
EM-19	18¾"	C-340	34" copper	40	3736	3923	3550	3214	2914	2578	2279	1980	1681
LIVI-13	10/4	C-440	1" copper	40	3960	4158	3762	3406	3089	2732	2416	2099	1782
		C-540	1½" copper	40	3880	4074	3686	3337	3026	2677	2367	2056	1746

ACCESSORIES

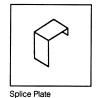


TELESCOPIC ACCESSORIES



Slotted End Cap



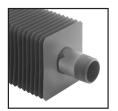






Outside Corner

Inside Corner



S-532



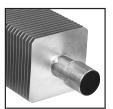
S-540



S-832



C-340



C-440



C-540

BARE ELEMENTS

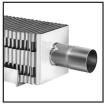
STEEL ELEMENTS COPPER/ALUMINUM ELEMENTS



H-1



H-3



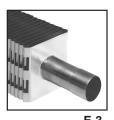
H-4



H-5X



H-6X



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-3, 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

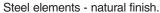
PACKAGING: Factory packaged in individual cartons (except E-3 which is packaged 3 elements to a carton). "E" and "H" elements include plastic expansion cradles.

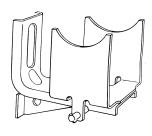
LENGTHS: Precut standard lengths

S and C Series: 2, 3, 3½, 4, 5, 6, 7, 8, 9, 10, 11, 12 feet.

E and H Series: 2, 3, 3½, 4, 5, 6, 7, 8 feet.

FINISH: Copper/aluminum elements - natural finish.





M-1 Expansion Hanger:
Specify for bare element installations.

			Fins	No.of	Stream 1PSI*	L DIUD/DD./FI. (FIUW DAIR & FI./&RG.)							
Model Number	Tube Size and Material	Fin Size and Material	per Foot	Tiers 7" cl	Btuh/Hr. Per Foot	220°F 104°C	210°F 99°C	200°F 93°C	190°F 88°C	180°F 82°C	170°F 77°C	160°F 71°C	150°F 66°C
S-532	11/4"IPS steel	4¼" x 4¼" x .024"	32	1	1340	1407	1273	1152	1045	925	817	710	603
		electro-gal. steel		2	2410	2531	2290	2073	1880	1663	1470	1277	1085
				3	3170	3329	3012	2726	2473	2187	1934	1680	1427
S-540	1¼"IPS steel	4¼" x 4¼" x .024"	40	1	1490	1565	1416	1281	1162	1028	909	790	671
		electro-gal. steel		2	2530	2657	2404	2176	1973	1746	1543	1341	1139
				3	3220	3381	3059	2769	2512	2222	1964	1707	1449
S-832	2"IPS steel	4¼" x 4¼" x .024"	32	1	1360	1428	1292	1170	1061	938	830	721	612
		electro-gal. steel		2	2420	2541	2299	2081	1888	1670	1476	1283	1089
				3	3190	3350	3031	2743	2488	2201	1946	1691	1436
C-340	3/"copper	4¼" x 4¼" x .020"	40	1	1724	1810	1638	1482	1344	1189	1052	914	776
		aluminum		2	3033	3186	2882	2609	2366	2094	1851	1608	1366
				3	3881	4075	3687	3338	3027	2678	2367	2057	1747
C-440	1" copper	4¼" x 4¼" x .020"	40	1	1830	1922	1739	1574	1427	1263	1116	970	824
		aluminum		2	3210	3371	3050	2761	2504	2215	1958	1701	1445
				3	4110	4316	3905	3535	3206	2836	2507	2178	1850
C-540	1¼" copper	4¼" x 4¼" x .020"	40	1	1790	1880	1701	1539	1398	1235	1092	949	806
		aluminum		2	3150	3308	2993	2709	2457	2174	1922	1670	1418
	2.00			3	4030	4232	3829	3466	3143	2781	2458	2136	1814
H-1	¾" copper	3" x 3 ¼" x .024"	48	1	_	1179	1067	966	876	775	685	595	505
		aluminum		2	_	1673	1513	1370	1243	1099	972	844	717
	4170	011 0 1/11 00011	40	3	-	2646	2394	2167	1966	1739	1537	1336	1134
H-5X	1¼" copper	3" x 3 ¼" x .020"	48	1	1085	1139	1031	933	846	749	662	575	488
		aluminum		2	1540	1617	1463	1324	1201	1063	939	816	693
11.07/	41/7 IDO -11	0 0 1/ 000	40	3	2435	2557	2313	2094	1899	1680	1485	1291	1096
H-6X	11/4" IPS steel	3" x 3 ¼" x .028"	48	1	950	998	903	817	741	656	580	504	428
		electro-gal. steel		2	1440	1512	1368	1238	1123	994	878	763	648
				3	2050	2153	1948	1763	1599	1415	1251	1087	923

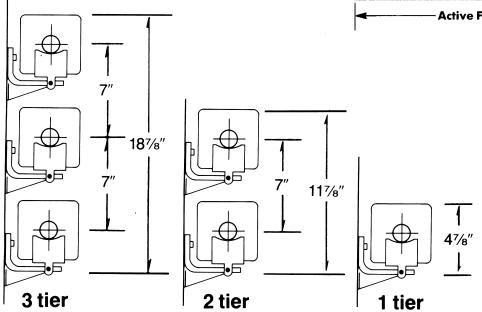
NOTE: H-3, H-4 and E-3 elements are not recommended for bare-element installation. H-1 is not recommended for steam applications.

For ratings at lower water temperatures, refer to conversion table on page 29. † Based on 65°F entering air temperature

Active length of each element is as follows: S and C series— $5\frac{1}{4}$ " less than total length.

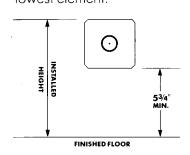
E and H series—3" less than total length.

Active Finned Length—

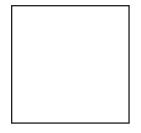


Dimensions for bare element installation without enclosures ("S" and "C" elements).

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.







MULTI/PAK® 80

HIGH OUTPUT, LOW PROFILE **BASEBOARD**



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. A choice of five interchangeable elements meets a broad range of heating requirements. The 1" and 11/4" copper/aluminum elements permit higher flow rates, longer series-loop runs and lower pump loads.

ELEMENT	"H"	"D"
H-1	37/8"	13/4"
H-3	31/2"	1 9⁄16″
H-4	31/2"	1 9⁄16″
H-5x	37/8"	13/4"
H-6x	37/8"	13/4"

ORDERING DATA

PACKAGING: Complete assembly - Model 83A2. Factory assembled, packaged in individual Zip-Strip cartons. Includes H-3 element, enclosure, brackets, plastic expansion cradles and damper. Model 81A, 84A3, 85A and 86A. Cover and element, as described above, packaged and shipped separately.

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

DEPTH: 31/2" **HEIGHT**: 87/8"

LENGTHS: 2', 3', 3½', 4', 5', 6', 7', 8', 10', 12', 14'. MATERIAL: 18-gauge steel front cover. 21-gauge

back cover. 16-gauge brackets.

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

FINISH: Nu-White baked enamel.

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 26.

SNAP-ON ACCESSORIES

End cap*, 4" Outside corner*, 90°, 135° Wall trim*, 4" Valve cover*, 8" Valve cover, slotted*, 8" Filler sleeve, 7" or 14" Inside corner*, 90°,135° or custom angle

or custom angle Center valve cover*. 8" Zone valve box

> Back panel for inside Column cover set

*Telescopic accessories

RATINGS

		Tube		Fins			Stream 1PSI*			Н0		R RATINO HR./FT.	GS*		
Model Number	Element Type	Size and Material	Fin Size and Material	per Foot	Water Flow		Btuh/Hr. Per Foot	220°F 104°C	210°F 99°C	200°F 93°C	190°F 88°C	180°F 82°C	170°F 77°C	160°F 71°C	150°F 66°C
81 A	H-1	¾" copper	3 x 3¼" x .024" aluminum	48	1 GPM 4 GPM	47 525	I	1140 1200	1060 1120	970 1030	880 930	790 840	700 740	610 640	520 550
83-A2	H-3	¾" copper	2¾" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525	ı	1050 1110	970 1030	890 940	810 860	730 770	650 690	570 600	490 520
84-A3	H-4	1" copper	3" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145	I	1040 1100	960 1010	880 930	800 850	720 760	640 680	560 610	480 510
85-A	H-5X	1½" copper	3" x 3¼" x .020" aluminum	48	1 GPM 4 GPM	6 63	1160	1100 1160	1010 1070	920 970	830 890	740 790	650 700	560 610	470 520
86-A	H-6X	1¼" IPS steel	3" x 31/4" x .028" electro-gal. steel	48	1 GPM 4 GPM	3 41	990	940 990	870 920	790 840	720 760	640 680	570 600	500 530	420 440



SPECIFICATIONS

Ratings are based on active (finned) length. Active length of "S" and "C" elements is $5\,\%$ " less than total length. Fin size of "S" and "C" elements is $4\,\%$ " x $4\,\%$ ". Active length of "H" and "E" elements is 3" less than total length. See p. 26-27 for the specifications of individual "H" and "E" 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° Steam temperature: 215°

Proceed as follows to determine output under conditions

different than above:

Water velocity less than 3 feet per second: multiply the hot water ratings by the factors shown in Table 1.

TABLE 1

FACTORS FOR DETERMINING OUTPUTS AT WATER FLOW RATES OF LESS THAN 3 FEET PER SECOND

3.0 2.75 2.5	_ 1.00 996 992	Flow Rate Ft./Sec. 1.5 1.25 1.0	.973 .966 .957
2.25	.988	.75	.946
2.0	984	.5	.931
1.75	979	.25	.905

TABLE 2

CORRECTION FACTORS FOR WATER TEMPERATURES† AND AIR TEMPERATURES OTHER THAN STANDARD

AVERAGE	ENTERING AIR TEMPERATURE								
WATER TEMP. ° F	45	50	55	60	65	70	75	80	85
90	.19	.16	.13	.11	.08	.06			
100	.25	.22	.19	.16	.13	.11	.08	.06	
110	.31	.28	.25	.22	.19	.16	.13	.11	.08
120	.38	.34	.31	.28	.25	.22	.19	.16	.13
130	.45	.42	.38	.34	.31	.28	.25	.22	.19
140	.53	.49	.45	.42	.38	.34	.31	.28	.25
150	.61	.57	.53	.49	.45	.42	.38	.34	.31
155	.65	.61	.57	.53	.49	.45	.42	.38	.34
160	.69	.65	.61	.57	.53	.49	.45	.42	.38
165	.73	.69	.65	.61	.57	.53	.49	.45	.42
170	.78	.73	.69	.65	.61	.57	.53	.49	.45
175	.82	.78	.73	.69	.65	.61	.57	.53	.49
180	.86	.82	.78	.73	.69	.65	.61	.57	.53
185	.91	.86	.82	.78	.73	.69	.65	.61	.57
190	.95	.91	.86	.82	.78	.73	.69	.65	.61
195	1.00	.95	.91	.86	.82	.78	.73	.69	.65
200	1.05	1.00	.95	.91	.86	.82	.78	.73	.69
205	1.09	1.05	1.00	.95	.91	.86	.82	.78	.73
210	1.14	1.09	1.05	1.00	.95	.91	.86	.82	.78
215	1.20	1.14	1.09	1.05	1.00	.95	.91	.86	.82
220	1.25	1.20	1.14	1.09	1.05	1.00	.95	.91	.86
225	1.32	1.25	1.20	1.14	1.09	1.05	1.00	.95	.91
230	1.39	1.32	1.25	1.20	1.14	1.09	1.05	1.00	.95
235	1.41	1.39	1.32	1.25	1.20	1.14	1.09	1.05	1.00
240	1.44	1.41	1.39	1.32	1.25	1.20	1.14	1.09	1.05

[†] 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 2.

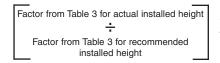
Water temperature other than 215°F: multiply the catalog steam rating by the factors shown in Table 2.

Steam Ratings

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

Recommended Installed Height

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:



Rating shown on pages 7, 11, 13, 15, 17, 19, 25 & 27

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

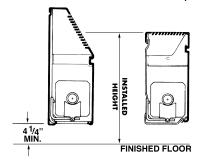
Given:

Installed height 36" [1.00 \div 1.15] x 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			
Height †	Factor	Height †	Factor
36" or more	1.00	25"	1.08
34"	1.01	24"	1.09
32"	1.02	23"	1.10
30"	1.03	22"	1.11
29"	1.04	21"	1.12
28"	1.05	20"	1.13
27"	1.06	19"	1.14
26"	1.07	18" or less	1.15



The **installed height** for enclosures is defined as the distance from the finished floor to the center of the outlet. Recommended height is based on a minimum mounting height for all covers and enclosures of 4¼" from finished floor to bottom of front panel.

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: 3/4" copper tube	0.023 gal./ft.
Model C440, 1" copper tube	0.040 gal./ft.
Model C540, 11/4" copper tube	0.063 gal./ft.
Model S532, S540, 11/4" 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 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.

ENGINEERING DATA

SPECIFICATIONS

Multi/Pak 90

Furnish and install as shown on the plans Multi/Pak® 90—slope-top fin-tube enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin Corporation.

Cover shall be of two interlocking sections: a top cover and front cover. Top cover will be common toone-tier (90-14) and two-tier (90-21) models. (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 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 forcomplete installation. Cover accessories shall be telescopic and shall match enclosure color.

Multi/Pak 93

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

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. (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 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.

Multi/Pak 95

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

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. (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 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.

J Series

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

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

Cover shall be fabricated from 18-gauge steel in gray prime or as custom matched as per specification. Brackets and hangers 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.

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 Corporation.

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 shall consist of stamped grille with pencil-proof air discharge louvers.

Cover shall be fabricated from 18 (16) gauge steel in hot dipped wiped coat galvanized finish or as custom color matched as per specification.

Brackets and hangers shall be channeled steel in hot dipped wiped coat galvanized finish. Brackets and hangers shall be Model______Provide lengths and capacities as scheduled on plans.

Furnish required channeled bracket-hanger assemblies with heavy floor mounting flange for rigidfront skirt and element support.

Provide all required accessories for a complete installation. Enclosure accessories in hot dipped wiped coat 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 Corporation.

Cover shall be of one piece construction. Enclosure shall be (TBG-17, TBG-24) and shall have (1 or 2) tier element. (A knob actuated damper shall be provided.) Top and bottom slope of enclosure shall consist of stamped grille with pencil-proof air discharge louvers. (Optional: A full height back panel shall be provided of 20-gauge steel in hot dipped wiped coat galvanized finish.)

Cover shall be fabricated from 18 (16) gauge steel in hot dipped wiped coat galvanized finish or as custom matched as per specification.

Brackets and hangers shall be channeled steel in hot dipped wiped coat galvanized finish. Fintube element(s) shall be Mode______I. 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 hot dipped wiped coat 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 Corporation.

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. (A knob actuated damper shall be provided.) Top part of enclosure shall consist of stamped grille with pencil-proof air discharge louvers. (Optional: A full height back panel shall be provided of 20-gauge steel in hot dippedwiped coat galvanized finish.)

Cover shall be fabricated from 18 (16) gauge steel in hot dipped wiped coat galvanized finish or as custom color matched as per specification.

Brackets and hangers shall be channeled steel in hot dipped wiped 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 hot dipped wiped coat galvanized steel shall be telescopic and match enclosure color.

350L Series

Furnish and install 350L Series baseboard cover assembly as manufactured by Slant/Fin Corporation, consisting of one-piece bottom, back and top panel, and one-piece 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 electrogalvanized cold rolled steel, for rigid bracing andspring locking. Slide-action expansion cradles, formed of polypropylene, shall be inserted between heating element and support bracket. 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, oven baked melamine cross-linked polyester enamel.

HD Series

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

Front cover shall be fabricated from 16-gauge steel, back panel from 20-gauge steel. The front panel & accessories shall be finished in Nu-White baked enamel finish or as custom color matched as per specifications. Fin-tube element(s) shall be Model______. Provide lengths, heights and capacities as scheduled on plans.

Bracket with element guide shall be 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 %" self tapping screws with countersunk head as supplied by others

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.

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 Corporation. 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 steel. F enclosure shall consist of stamped top grille with pencil-proof air discharge louvers

Covers shall be fabricated from 18-gauge steel in bonded zinc finish or as custom color matched as per specification.

Brackets and hangers shall be channeled steel in bonded zinc finish. Fin-tube element(s) shall be Model_____. Provide lengths and capacities as scheduled on plans.

Furnish required channeled 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.

Multi/Pak 80

Furnish and install Multi/Pak® 80 baseboard cover assembly as manufactured by Slant/Fin Corporation, consisting of one-piece 21-gauge back and top panel, and one-piece 18-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 zinc-bonded 16gauge 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. Cradles shall protect element bottom and sides from contact with brackets or cover, confining element to free lateral expansion for noiseless operation. Room-control damper vane, of quarter-hard cold rolled steel, shall be provided for each length of enclosure, and shall modulate fully and freely, yet retain any setting through its arc without protruding knobs or other devices. Support bracket shall be formed to retain and support damper vane without use of additional pivots. All cover components shall be painted in Nu-White, oven baked melamine cross-linked polyester enamel.

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 Corporation, consisting of 1%'' nominal* copper seamless-drawn tubing* with $4\%'' \times 4\%' \times .020''$ 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. One end of each element shall be expanded to receive the expanded end of another, without couplings.

* C-440 is 1" copper pipe. C-340 is ¾" 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 Corporation, consisting of 1½" IPS steel pipe* (Schedule 40), with 4½" x 4½"x .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 Corporation, consisting of 3/4" nominal copper tubing, with 3" x 3/4"x .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. 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 Corporation, consisting of %" nominal copper tubing, with 3%" x 2%"x .011"aluminum fins bent to 2%"x 2%", 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 unexpanded end of another, without couplings.

H-4 Element

Furnish and install H-4 baseboard heating element as manufactured by Slant/Fin Corporation, consisting of 1" nominal copper tubing, with 3½" x 2½" x .011" aluminum fins bent to 3" x 2½", 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-5X Element

Furnish and install H-5 baseboard heating element as manufactured by Slant/Fin Corporation, consisting of 1½" nominal copper tubing, with 3" x 3½"x .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 unexpanded end of another, without couplings.

H-6X Element

Furnish and install H-6 baseboard heating element as manufactured by Slant/Fin Corporation, consisting of 1½" IPS steel pipe (Schedule 40), with 3" x 3½" x .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-3 Element

Furnish and install E-3 baseboard heating element as manufactured by Slant/Fin Corporation, consisting of 3/4" nominal copper tubing with 2%" x 2%"x 0.09" aluminum fins, bent to 2%"x 2%", spaced 55 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. One end of each element tube shall be expanded to receive the unexpanded end of another, without couplings.



Fin-tube enclosures are formed on press brakes that perform a sequence of precision computer controlled operations, each with precision of a ten-thousandth of an inch. Near perfect repeatability ensures a uniform fit on the job from piece to piece, for problem free installations.

Better manufacturing technology ensures higher quality. Slant/Fin is proud to operate the industry's most moder manufacturing facility for fin-tube enclosures and light

Slant/Fin is proud to operate the industry's most modern manufacturing facility for fin-tube enclosures and light commercial baseboard radiation. With all major metalworking operations under full computer control, a deep inventory of raw materials and semi-finished products, and an automated, high-capacity painting facility, the on-time delivery of consistently high quality commercial radiation products is ensured.

This computer controlled turret press stores programs for hundreds of items. It sets up quickly and changes tools automatically as it stamps out the flat blanks needed to fabricate Slant/Fin commercial radiation accessories.



Slant/Fin's high-capacity painting facility includes unique modular spray paint stations that permit quick changeover from one color to the next. A custom color spray operation can be set up off line and moved into its production position in a matter of minutes with virtually no down time, making shorter custom runs more practical.





SLANT/FIN CORPORATION, Greenvale, NY 11548 • Phone: (516) 484-2600

Fax: (516) 484-5921 • In Canada: Slant/Fin LTD/LTEE, Mississauga, Ontario