

MULTI/PAK®90 SERIES

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

Style: Slope-top and flat-top. Aluminum

grille optional (90 & 95). Application: Commercial heating. Hot water or steam.

Output: 373 to 3140 Btu/hr.

Elements: Choice of 12. Copper/aluminum

or steel.

USA: Nu-White baked enamel Finish:

or custom colors.

CANADA: Galvanized steel standard

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 4-10

page 18-19 FS

TBG SERIES

FS SERIES

Commercial heating.

Hot water or steam. 581 to 3339 Btu/hr.

Pedestal mounted enclosure.

Choice of 6. Copper/aluminum

Galvanized or custom colors.

Free standing fin-tube enclosure.

or steel.

Application:

Output:

Finish:

Elements:

1-piece fin-tube enclosure.

Style: Slope top and bottom. Commercial heating. Hot water Application:

or steam.

Ideal for upper wall installation.

540 to 2548 Btu/hr. Output: Choice of 6. Copper/aluminum Elements:

or steel.

Finish: Galvanized or custom colors.



TBG page 20-21

J SERIES

1-piece fin-tube enclosure.

Style: Slope-top

Application: Commercial heating. Hot water

or steam.

599 to 3854 Btu/hr. Output:

Elements: Choice of 6. Copper/aluminum

or steel.

Finish: Galvanized or custom colors.



page 10-11

MULTI/PAK® 80 SERIES

High output baseboard radiation.

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

residential heating. Hot water or

steam.

420 to 1200 Btu/hr. Output:

Elements: Choice of 6. Copper/aluminum

or steel.

Finish: Nu-White baked enamel.

80

page 22-23

HD SERIES & LC SERIES

Heavy duty slope-top baseboard.

Style: Slope-top, louvered baseboard. Application:

Rugged duty residential or light commercial heating. Hot water

or steam.

Output: 360 to 1660 Btu/hr.

Elements: Choice of 6. Copper/aluminum

or steel.

Finish: Galvanized or custom colors.



page 12-13 HD

1-piece element covers.

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

Industrial hot water or steam. Application: Output:

F Series: 563 to 3497 Btu/hr.

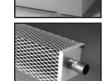
F&EM SERIES

EM Series: 581 to 4158 Btu/hr.

Elements: Choice of 6. Copper/aluminum

or steel.

Finish: Galvanized or custom colors.



page 24-25 F/EM

350 SERIES

High output slope-top baseboard.

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

water or steam 460 to 2250 Btu/hr.

Output: Choice of 6. Copper/aluminum Elements:

or steel.

Finish: Nu-White baked enamel or galvanized.



page 14-15 350

BARE ELEMENTS

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

Application:

With Slant/Fin enclosures or as bare element installation.

To 4316 Btu/hr.

Elements: Choice of 12. Copper/aluminum

or steel.



page 26-27

R SERIES

1-piece fin-tube enclosure.

Style: Flat-top. Aluminum grille

optional.

Application: Commercial heating. Hot

water or steam.

Output: 554 to 3770 Btu/hr. Elements: Choice of 6. Copper/aluminum

or steel

Finish: Galvanized or custom colors.





page 16-17 RF

ENGINEERING DATA

Ratings data Specifications

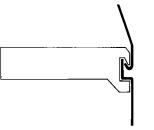
Output:



page 28-30

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.

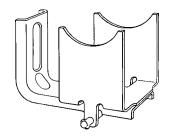






Element support

- Electro-galvanized bracket has fastening slot that allows 11/8" pitch adjustment.
- Electro-galvanized cradle supports finned or bare tubing at same height.
- Sliding guide rod provides full cradle width support. 15% all lateral movement permits smooth, noiseless expansion.



Pencil-proof louvers

Minimize "see through."

Multi/Pak 93 and 95 wall brackets

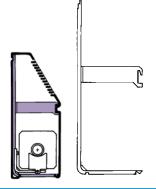
- Extra-heavy 11 gauge wall bracket and panel support arm are die formed with multiple bends that add strength.
- Multi/Pak 93 element hanger permits 7/6" pitch adjustment. Self-adjusting polypropylene expansion cradle on "H" and "E" elements allow silent lateral expansion movement
- Multi/Pak 95 element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



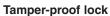
OPTIONAL EQUIPMENT



Hanging Strip

Provides additional rear support and seal





Locks front cover to lower arm of bracket

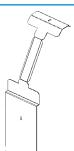


Wall Gasketing

For dustproof seal between top of cover and wall

Internal Splice Plate

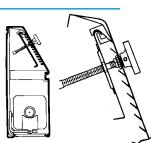
Cover sections butt to each other with a nearly seamless fit using the internal splice plate, optional for Multi/Pak 90 slope top enclosures. Eliminates need for an external splice plate.





Damper

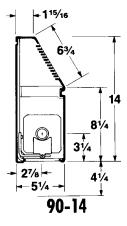
Knob operated damper (optional) is activated by precision lead screw and brass trunnion pitch block. Provides years of smooth operation. Damper for slope-top models is shown. Flat top models utilize a hinge type construction.

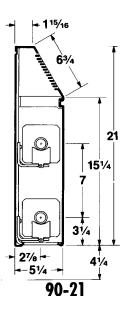






Aluminum grille optional.



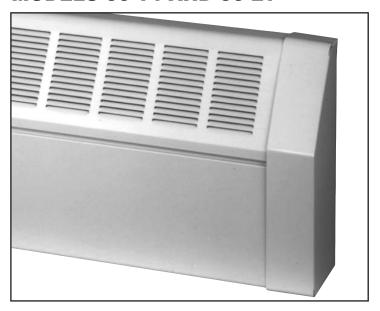


MULTI/PAK® 90

SLOPE-TOP, TWO-PIECE ENCLOSURE

Pre-painted. Factory packaged.

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 galvanized steel top and front cover.

FINISH:

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

WALL BRACKETS/HANGERS: Packaged with complete assembly. SC hanger has guide rod to provide 1 15/46" lateral expansion movement, 11/4" vertical pitch adjustment. Brackets and hangers provided with complete assembly as follows:

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

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. 30.

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

With the optional internal splice plate, cover sections butt to each other with a nearly seamless fit.

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

See pages 4-5 for description of features

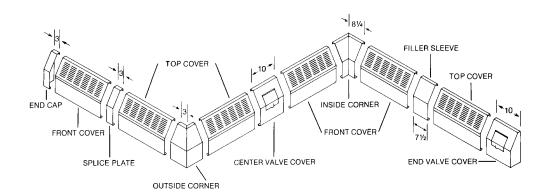


With or without dampers

	Enclo-				Fins	Steam 1 PSI* Btu/Hr.		HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)										
Cover Type	sure Height	Element Type	Tube Size and Material	Fin Size & Material	Per Foot	Per Foot	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
90-14	14"	S-532 S-540 S-832 C-340 C-440 C-540	1¼" steel 1¼" steel 2" steel ¾" copper 1" copper 1¼" copper	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	40 32 40 40	1380 1550 1400 1839 1950 1910	276 310 280 368 390 382	359 403 364 478 507 497	455 512 462 607 644 630	552 620 560 736 780 764	621 698 630 828 878 860	731 822 742 975 1034 1012	842 946 854 1122 1190 1165	952 1070 966 1269 1346 1318	1076 1209 1092 1435 1521 1490	1187 1333 1204 1582 1677 1643	1311 1473 1330 1748 1853 1815	1470 1932 2048
90-21 One-tier element	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	40 32 40 40	1460 1680 1520 2013 2130 2090	292 336 304 399 426 418	380 437 395 519 554 544	482 554 502 658 703 690	584 672 608 798 852 836	657 756 684 906 959 941	774 890 806 1067 1129 1108	891 1025 927 1228 1299 1275	1007 1159 1049 1389 1470 1442	1139 1310 1186 1570 1661 1630	1256 1445 1307 1731 1832 1797	1387 1596 1444 1895 2024 1986	1596 2114 2237
90-21 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	40 32 40 40	2190 2380 2270 2822 2990 2930	438 476 454 564 598 586	570 619 590 734 778 762	723 785 749 931 987 967	876 952 908 1129 1196 1172	986 1071 1022 1270 1346 1319	1161 1261 1203 1496 1585 1553	1336 1452 1385 1721 1824 1787	1511 1642 1566 1947 2063 2022	1708 1856 1771 2200 2332 2285	1883 2047 1952 2427 2571 2520	2081 2261 2157 2681 2841 2784	2300 2499 2384 2963 3140 3077

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

ACCESSORIES



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

non-telescopic accessories

Column cover set
Damper (electro galvanized, not
available with aluminum grille)*
Damper, field installed
Hanging strip*

*See p.3 for details

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 †



Internal Splice Plate for 90-14 and 90-21

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



Inside corner, 90°



Outside corner, 90°



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



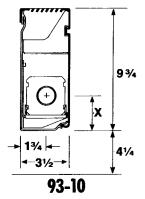
MULTI/PAK® 93 FLAT-TOP, TWO-PIECE ENCLOSURE

Pre-painted. Factory packaged.

MODELS 93-10 AND 93-17



| H1 | 33/16 | H3 | 213/16 | H4 | 213/16 | H5X | 33/16 | H6X | 33/16 | E-75 | 27/8 |



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 galvanized steel top and

front cover. 11-gauge wall brackets.

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

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

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

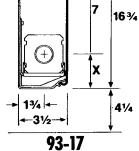
ELEMENTS: Copper with aluminum fins: H-1, H-3, H-4, H-5X, E-75. Steel with electro-galvanized steel fins: H-6X. Lengths from 2 to 8 ft. See p.30.

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

See pages 4-5 for description of features.

ALUMINUM GRILLES IS NOT AVAILABLE.



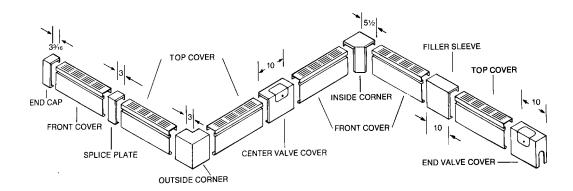


With or without dampers

			Rows of			Fins	Steam 1 PSI* Btu/Hr.				BTU/			R RATI w Rate	NGS* 3 Ft./	Sec.)			
Cover Type	Enclosure Height	Element Type	Heating Elements	Tube Size & Material	Fin Size and Material	Per Foot	Per Foot	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
		H-1	1	¾" copper	3" x 31/4" x .024" aluminum	48	1079	216	281	356	432	486	572	658	745	848	928	1025	1133
		H-3	1	¾" copper	23/4" x 21/2" x .011" aluminum	55	991	198	258	327	396	446	525	605	684	773	852		1041
93-10	9¾"	H-4	1	1" copper	3" x 2½" x .011" aluminum	48	965	193	251	319	386	434	511	589	666	753	830		1013
		H-5X	1	11/4" copper	3" x 31/4" x .020" aluminum	48	1030	206	268	340	412	464	546	628	711	803	886	979	1082
		H-6X	1	1¼" IPS Steel	3" x 31/4" x .028" aluminized steel	48	883	177	230	291	353	397	468	539	609	689	759	839	927
		E-75	1	¾" copper	25/16" x 21/1" aluminum	55	828	166	215	273	331	373	439	505	571	646	712	787	869
		H-1		¾" copper	3" x 31/4" x .024" aluminum	48	1182	236	307	390	473	532	626	721	816	922	1017	1123	1241
93-17		H-3	1	¾" copper	2¾" x 2½" x .011" aluminum	55	1086	217	282	358	435	489	576	662	749	847		1032	1140
One-tier	16¾"	H-4	1	1" copper	3" x 2½" x .011" aluminum	48	1057	211	275	349	423	476	560	645	729	824		1004	1110
element		H-5X	1	1¼" copper	3" x 31/4" x .020" aluminum	48	1128	226	293	372	451	508	598	688	778	880		1072	1184
O TOTAL OF THE		H-6X	1	1¼" IPS Steel	3" x 31/4" x .028" aluminized steel	48	947	189	246	313	379	426	502	578	653	739	814	900	994
\vdash		E-75		¾" copper	25% x 21/4" aluminum	55	907	181	236	299	363	408	481	553	626	707	780	862	952
00.47		H-1		¾" copper	3" x 31/4" x .024" aluminum	48	1679	336	437	554	672	756	890	1024		1310		1595	1763
93-17		H-3		¾" copper	2¾" x 2½" x .011" aluminum	55	1543	309	401	509	617	694	818	941		1204	1327	1466	1620
Two-tier	16¾"	H-4	2	1" copper	3" x 21/2" x .011" aluminum	48	1501	300	390	495	600	675	796		1036			1426	1576
element		H-5X	2	1¼" copper	3" x 31/4" x .020" aluminum	48	1602	320	417	529	641	721	849	977		1250		1522	1682
		H-6X	2	1¼"IPS Steel	3" x 31/4" x .028" aluminized steel	48	1435	287	373	473	574	646	761	875				1363	1507
		E-75	2	¾" copper	25/16" x 21/8" aluminum	55	1288	258	335	425	515	580	683	786	889	1005	1108	1224	1352

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

ACCESSORIES



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

non-telescopic accessories

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

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)

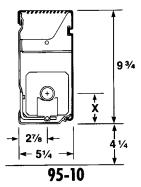
^{*}See p.3 for details

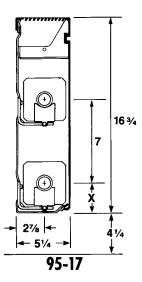




Aluminum grille optional.

ELEMENT	X
C-340	3
C-440	31/8
C-540	31/4
\$-532	33/8
S-540	33/8

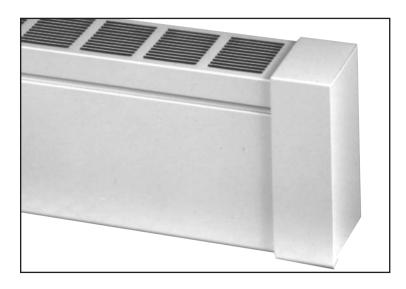




MULTI/PAK® 95 FLAT-TOP, TWO-PIECE ENCLOSURE

Pre-painted. Factory packaged.

MODELS 95-10 AND 95-17



ORDERING DATA

Multi/Pak 95 Complete Enclosure Assembly

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

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

DEPTH: 51/4"

HEIGHTS: $9\frac{3}{4}$ " (one tier), $16\frac{3}{4}$ " (one or two tier)

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

from 2 to 12 ft.

MATERIAL: 18-gauge galvanized steel top and

front cover. 11-gauge wall brackets.

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

WALL BRACKETS/HANGERS: Packaged with complete assembly. SC-2 hanger has guide rod to provide 1 15/16" lateral expansion movement, 11/8" vertical pitch adjustment. Brackets and hangers provided with complete assembly as follows:

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

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. 30.

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

See pages 4-5 for description of features

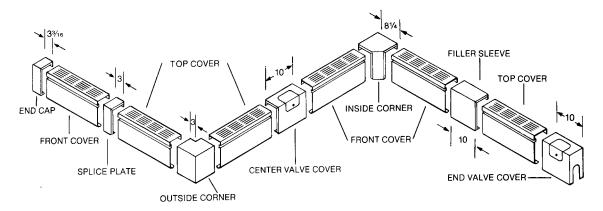


With or without dampers

Cover	Enclosure	Element	Tube Size	Fin Size	Fins Per	Steam 1 PSI* Btu/Hr.				ВТ		WATER			ec.)			
Туре	Height	Туре	& Material	& Material	Foot	Per Foot	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
		S-532	1¼" steel	4¼" steel	32	1254	251	326	414	501	564	665	765	865	978	1078	1191	1317
		S-540	1¼" steel	4¼" steel	40	1470	294	382	485	588	662	779	897	1014	1147	1264	1397	1544
95-10	9¾"	C-340	¾" copper	4¼" alum.	40	1680	336	437	555	672	756	891	1025	1159	1311	1445	1597	1764
		C-440	1" copper	4¼" alum.	40	1780	356	463	587	712	801	943	1086	1228	1388	1531	1691	1869
		C-540	11/4" copper	4¼" alum.	40	1745	349	454	576	698	785	925	1064	1204	1361	1501	1658	1832
		S-532	1¼" steel	4¼" steel	32	1351	270	351	446	540	608	716	824	932	1054	1162	1283	1419
95-17		S-540	1¼" steel	4¼" steel	40	1577	315	410	520	631	710	836	962	1088	1230	1356	1498	1656
One-tier	16¾"	C-340	¾" copper	4¼" alum.	40	1840	368	478	607	736	828	976	1123	1270	1436	1582	1748	1933
element		C-440	1" copper	4¼" alum.	40	1950	390	507	644	780	878	1034	1190	1346	1521	1677	1853	2048
		C-540	11/4" copper	4¼" alum.	40	1911	382	497	630	764	860	1013	1166	1319	1491	1643	1815	2007
		S-532	1¼" steel	4¼" steel	32	2153	431	560	710	861	969	1141	1313	1486	1679	1852	2045	2261
95-17		S-540	1¼" steel	4¼" steel	40	2390	478	622	789	956	1076	1267	1458	1649	1864	2055	2271	2510
Two-tier	16¾"	C-340	¾" copper	4¼" alum.	40	2615	523	680	863	1046	1177	1386	1595	1804	2040	2249	2484	2746
element		C-440	1" copper	4¼" alum.	40	2770	554	720	914	1108	1247	1468	1690	1911	2161	2382	2632	2909
		C-540	11/4" copper	4¼" alum.	40	2715	543	706	896	1086	1222	1439	1656	1873	2118	2335	2579	2851

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

ACCESSORIES



Fourteen accessories let you "fit" Multi/Pak 95 in virtually any space configuration - fast and easily. Cover accessories are all telescopic. They snap in place without screws or other fasteners. All accessories. unless noted, are finished in Nu-White baked enamel. Custom color available on special order.

non-telescopic accessories

Column cover set Damper (electro galvanized, not available with aluminum grille)* Hanging strip*

*See p.3 for details

Tamper-proof lock* Wall gasketing*

telescopic accessories



End Cap End Cap-slotted (not shown)



Splice plate



Filler sleeve





Inside corner, 90°



Outside corner, 90°



End valve cover, † slotted, 10" End valve cover, 10"

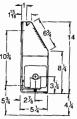




*Details for optional J-Series damper shown on model JAD-28



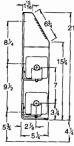
JL-10



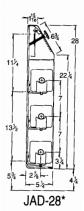
JR-14



.IA-14



ΙΔ-21



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: 9½" 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.

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

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

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

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. 30.

JOINTS: Slip joint connectors (JR models only) and internal splice plates (JA models only; see p.5) align cover sections which butt to one another, providing a near seamless joint. Use of telescopic accessories with any J Series model eliminates the need to perfectly butt one length of cover to the next. Critical linear and vertical tolerances are eliminated because telescopic assembly absorbs misalignment

that might result from uneven floors and walls. **JL-10**, **JA-14** 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 4" Top mounting rail (BPT). 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.

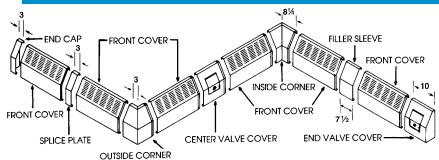
- Pencil-proof louvers minimize "see through".
- Heavy duty 14-gauge wall bracket is drawn die formed.
 Secures cover in place with rigid spring lock action.
 Snap-in center brace supports middle of cover.
- Bracket mounting slots provide ¾" height adjustment.
 Large recessed "flat" prevents bracket from crushing wall surface when back panel is not used.
- Element hanger has sliding guide rod that provides full cradle width support. 1%6" lateral movement permits smooth, noiseless expansion. Cradle supports finned or bare tubing at same height. Fastening slot in bracket allows 1%" pitch adjustment.
- Knob-operated damper (optional) modulates fully to control output. See page 5 for details.

With or without dampers

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

		Flomont	Tuba Oira	Fin Sino	Fins	Steam 1 PSI* Btu/Hr.	BTU/HR./FT. (Flow Bate 3 Ft./Sec.)											
Cover Type	Enclosure Height	Element Type	Tube Size and Material	Fin Size and Material	Per Foot	Per Foot	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
JL-10 JR-10	9 ⁷ ⁄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	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	1330 1430 1350 1753 1860 1820	266 286 270 351 372 364	346 372 351 456 484 473	439 472 446 578 614 601	532 572 540 701 744 728	599 644 608 789 837 819	705 758 716 929 986 965	811 872 824 1069 1135 1110	918 987 931 1210 1283 1256	1037 1115 1053 1367 1451 1420	1144 1230 1161 1507 1600 1565	1264 1359 1283 1665 1767 1729	1397 1502 1418 1840 1953 1911
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	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	1380 1550 1400 1839 1950 1910	276 310 280 368 390 382	359 403 364 478 507 497	455 512 462 607 644 630	552 620 560 736 780 764	621 698 630 828 878 860	731 822 742 975 1034 1012	842 946 854 1122 1190 1165	952 1070 966 1269 1346 1318	1076 1209 1092 1435 1521 1490	1187 1333 1204 1582 1677 1643	1311 1473 1330 1748 1853 1815	1449 1628 1470 1932 2048 2006
JA-21 JR-21 One-tier element	21"	S-532 S-540 S-832 C-340 C-440 C-540	1 ¹ / ₄ " steel 1 ¹ / ₄ " steel 2" steel ³ / ₄ " copper 1" copper 1 ¹ / ₄ " copper	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	1460 1680 1520 2013 2130 2090	292 336 304 403 426 418	380 437 395 524 554 544	482 554 502 665 703 690	584 672 608 805 852 836	657 756 684 906 959 941	774 890 806 1067 1129 1108	891 1025 927 1228 1299 1275	1007 1159 1049 1389 1470 1442	1139 1310 1186 1570 1661 1630	1256 1445 1307 1731 1832 1797	1387 1596 1444 1913 2024 1986	1533 1764 1596 2114 2237 2195
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	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	2190 2380 2270 2822 2990 2993	438 476 454 586 598 586	570 619 590 762 778 762	723 785 749 967 987 967	876 952 908 1172 1196 1172	986 1071 1022 1270 1346 1319	1161 1261 1203 1496 1585 1553	1336 1452 1385 1721 1824 1787	1511 1642 1566 1947 2063 2022	1708 1856 1771 2200 2332 2285	1883 2047 1952 2427 2571 2520	2081 2261 2157 2784 2841 2784	2300 2499 2384 2963 3140 3077
JA-28 JR-28 One-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	1480 1710 1550 2051 2170 2130	296 342 310 410 434 426	385 445 403 533 564 554	488 564 512 677 716 703	592 684 620 821 868 852	666 770 698 924 977 959	784 906 822 1087 1150 1129	903 1043 946 1251 1324 1299	1021 1180 1070 1416 1497 1470	1154 1334 1209 1600 1693 1661	1273 1471 1333 1764 1866 1832	1406 1625 1473 1949 2062 2024	1554 1796 1628 2154 2279 2237
JA-28 JR-28 Two-tier element	28"	S-532 S-540 S-832 C-340 C-440 C-540	1 ¹ / ₄ " steel 1 ¹ / ₄ " steel 2" steel ³ / ₄ " copper 1" copper 1 ¹ / ₄ " 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	458 502 486 588 622 610	596 653 632 764 809 793	756 828 802 970 1026 1007	916 1004 972 1175 1244 1220	1031 1130 1094 1322 1400 1373	1214 1330 1288 1557 1648 1617	1397 1531 1482 1792 1897 1861	1580 1732 1677 2027 2146 2105	1786 1958 1895 2291 2426 2379	1969 2159 2090 2526 2675 2623	2176 2385 2309 2791 2955 2898	2405 2636 2552 3084 3266 3203
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 1½" copper	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	2830 2930 2880 3467 3670 3600	566 586 576 693 734 720	736 762 749 901 954 936	934 967 950 1144 1211 1188	1132 1172 1152 1387 1468 1440	1274 1319 1296 1560 1652 1620	1500 1553 1526 1837 1945 1908	1726 1787 1757 2115 2239 2196	1953 2022 1987 2392 2532 2484	2207 2285 2246 2704 2863 2808	2434 2520 2477 2981 3156 3096	2689 2784 2736 3293 3487 3420	2972 3077 3024 3640 3854 3780

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.3 for details

telescopic accessories



End Cap End Cap-slotted (not shown)



Splice plate



Filler sleeve



Center valve cover †



Inside corner, 90°



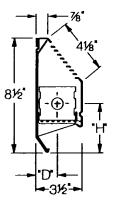
Outside corner, 90°



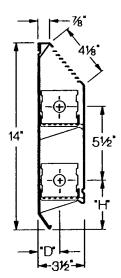
End valve cover, † slotted, 10"
End valve cover, 10" (not shown)



Custom Heights & Configurations Available



HD-850



HD-1400

Element	"H"	"D"
H-1	41/16"	1%"
H-3, H-4	35%"	1%"
H-5x, H-6x	4"	1¾"

HD SERIES HEAVY DUTY, 16 GAUGE 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 rental properties, military housing, schools, institutions and public housing. Its compact size and high output make it suitable for a wide range of new and retrofit applications. In addition to heavy gauge enclosure and support brackets, HD Series baseboard cover is secured in place with square drive screws at each bracket location. Optional 1" and 1¼" copper/aluminum elements permit higher flow rates, longer series-loop runs and lower pump loads where required. With the 1¼" all-steel element, HD Series is perfect for use in one or two pipe steam systems. HD Series is shipped pre-assembled in individual cartons for rapid installations.

ORDERING DATA

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

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

DEPTH: 31/2"

HEIGHTS: 81/2" (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 panel.

FINISH: Galvanized is standard. Custom color available on special order.

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

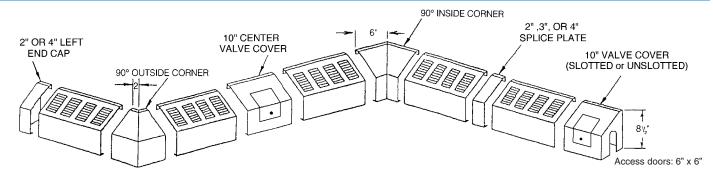
JOINTS: Telescopic cover accessories eliminate the need to perfectly butt one length of cover to the next. Critical linear and vertical tolerances are eliminated because telescopic assembly absorbs misalignment that might result from uneven floors and walls. Accessories are fastened to cover with pan-head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

		Tiers of	Tube		Fins			Steam 1 PSI*	DTU/UD /CT											
Model Number	Element Type	Heating Element	Size and Material	Fin Size and Material	per Foot	Water Flow	Pressure Drop†	Btu/Hr. Per Foot	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
HD-850 Single-tier	H-1	1	¾" copper	3" x 31/4" x .024" aluminum	48	1 GPM 4 GPM	47 525	_	190 200	260 270	320 340	390 420	470 500	550 580	640 680	720 760	800 850	890 940	970 1030	1050 1110
HD-850 Single-tier	H-3	1	¾" copper	2¾" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525		170 180	230 240	290 300	350 370	420 440	490 520	570 600	640 680	720 760	790 840	870 920	940 990
HD-850 Single-tier	H-4	1	1" copper	3" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145		170 180	230 240	280 300	340 360	410 430	460 500	560 590	630 670	710 750	780 830	860 1000	1030 980
HD-850 Single-tier	H-5X	1	1½" copper	3" x 31/4" x .020" aluminum	48	1 GPM 4 GPM	6 63	1160	180 190	240 250	300 320	360 390	430 460	550 560	600 640	680 710	770 810	860 880	920 980	1010 1070
HD-850 Single-tier	H-6X	1	1¼" IPS steel	3" x 31/4" x .028" aluminized steel	48	1 GPM 4 GPM	3 41	980	150 150	200 200	250 260	300 310	360 370	440 450	510 540	570 600	640 680	710 750	780 830	850 900
HD-1400 Single-tier	H-1	1	34" copper	3" x 3¼" x .024" aluminum	48	1 GPM 4 GPM	47 525	_	260 280	350 370	440 470	540 570	640 680	760 810	870 920	990 1050	1100 1170	1220 1300	1340 1420	1450 1540
HD-1400 Single-tier	H-3	1	3/4" copper	2¾" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525	<u>—</u>	190 200	250 270	320 340	390 410	460 486	540 570	620 660	705 750	780 820	865 900	945 1000	1030 1090
HD-1400 Single-tier	H-4	1	1" copper	3" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145		180 200	250 260	310 330	380 400	450 480	504 530	613 650	690 730	777 820	854 900	942 1000	1129 1190
HD-1400 Single-tier	H-5X	1	1¼" copper	3" x 3¼" x .020" aluminum	48	1 GPM 4 GPM	6 63	1160	240 260	320 350	400 440	480 530	576 635	678 748	859 948	952 1051	1045 1154	1139 1257	1233 1361	1326 1464
HD-1400 Single-tier	H-6X	1	1¼" IPS steel	3" x 3½" x .028" aluminized steel	48	1 GPM 4 GPM	3 41	980	160 160	210 220	260 270	320 330	383 396	469 488	535 561	607 640	680 719	752 799	831 878	904 957
HD-1400 Two-tier	H-1	2	¾" copper	3" x 31/4" x .024" aluminum	48	1 GPM 4 GPM	47 525	_	280 300	380 400	480 510	580 610	690 730	820 870	940 990	1070 1130	1190 1260	1320 1400	1450 1530	1570 1660
HD-1400 Two-tier	H-3	2	¾" copper	2¾" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525	_	270 280	360 380	450 480	550 580	650 690	770 810	880 930	1000 1060	1110 1170	1230 1300	1340 1420	1460 1540
HD-1400 Two-tier	H-4	2	1" copper	3" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145	_	260 280	350 370	440 470	540 570	640 680	740 790	870 920	990 1050	1100 1160	1220 1290	1330 1400	1440 1480
HD-1400 Two-tier	H-5X	2	1¼" copper	3" x 31/4" x .020" aluminum	48	1 GPM 4 GPM	6 63	1630	270 280	360 380	450 480	550 580	650 690	820 850	900 950	1030 1080	1160 1220	1290 1340	1400 1480	1530 1620
HD-1400 Two-tier	H-6X	2	11/4" IPS steel	3" x 31/4" x .028" aluminized steel	48	1 GPM 4 GPM	3 41	1440	240 250	320 330	400 410	490 500	580 600	710 740	810 850	920 970	1030 1090	1140 1210	1260 1330	1370 1450

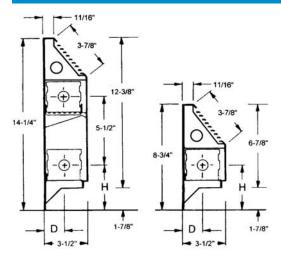
^{*} Based on 65°F entering air temperature. † Millinches per foot.

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

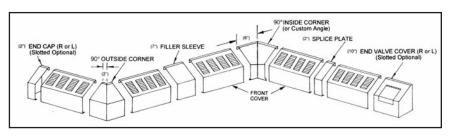
ACCESSORIES



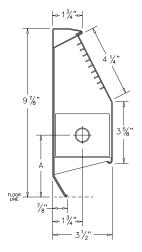
LC SERIES 18 GAUGE SLOPE TOP BASEBOARD



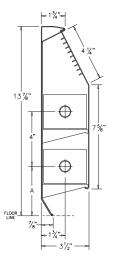
LC-850 and LC-1400 do not have a backpanel. One piece wall mounting bracket/element holder is ordered separately from cover, therefore bracket spacing is determined by system design and installation. The small vertical lip at the bottom of the front cover is where the installer drills a small hole to screw the front cover to the brackets. LC series is ideal for use in replacement applications where you want to use the existing, installed element and just replace the cover. Output ratings are the same as HD series. Contact Slant/Fin for more detailed information.







350-10



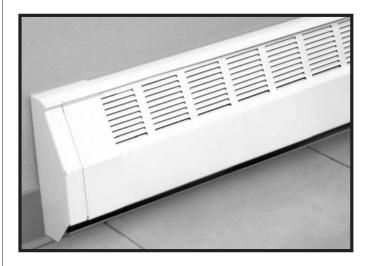
350-14

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

350 SERIES

HIGH-OUTPUT, SLOPE-TOP BASEBOARD

Pre-painted. Factory packaged.



350 Series baseboard combines, for the first time, the compactness and economy of baseboard with the high output and heavy-duty construction needed for "in-between" applications. Optional 1" and 1¼" copper/aluminum elements permit higher flow rates, longer series-loop runs and lower pump loads where required. With the 1½" all-steel element, 350 Series is perfect for use in one or two pipe steam systems. 350 Series is factory assembled and shipped in individual cartons for rapid installations.

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

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

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

ORDERING DATA

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

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

DEPTH: 3½"

HEIGHT: 9%" (one tier) and 13%" (one or two tier)

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

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

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

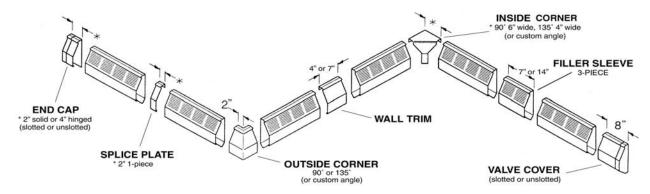
ELEMENT SUPPORT: Self-adjusting, polypropylene expansion cradles are positioned over support brackets, allowing quiet expansion.

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

		Tiers of			Fins			Steam 1 PSI*						WATER BTU/H	R RATI IR./FT.	NGS*				
Model Number	Element Type	Heating Element	Tube Size & Material	Fin Size & Material	Per Foot	Water Flow	Pressure Drop †	Btu/Hr. Per Foot	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
351-10 Single-tier	H-1	1	3/4 copper	"3" x 3½" x .024 aluminum	48	1 GPM 4 GPM	47 525		230 250	310 330	390 410	480 500	570 600	670 700	770 810	870 920	980 1040		1200 1260	1320 1400
353-10 Single-tier	H-3	1	3/4" copper	2¾" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525	_	210 230	290 300	360 380	440 460	520 550	610 650	710 750	800 850	900 960		1100 1170	1220 1290
354-10 Single-tier	H-4	1	1" copper	3" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145		210 230	290 310	360 380	440 460	520 550	610 650	710 750	800 850	900 960		1100 1170	1220 1290
355-10 Single-tier	H-5X	1	1-1/4" copper	3" x 3½" x .020" aluminum	48	1 GPM 4 GPM	6 63	1160	220 230	300 310	370 390	450 480	540 570	640 670	730 780	830 880	940 990	1040 1100	1140 1210	1260 1340
356-10 Single-tier	H-6X	1	1-1/4" IPS steel	3" x 3¼" x .028 aluminized steel	48	1 GPM 4 GPM	3 41	980	190 200	250 270	320 340	390 410	460 490	550 580	630 670	710 750	810 850	890 940	980 1040	1080 1150
350-14 Single-tier	H-1	1	3/4" copper	3" x 3¼" x .024 aluminum	48	1 GPM 4 GPM	47 525		245 259	328 347	412 435	501 530	597 631	704 744	892 984	989 1091	1085 1198	1182 1305		
353-14 Single-tier	H-3	1	3/4" copper	2¾" x 2½" x .011"" aluminum	55	1 GPM 4 GPM	47 525		230 243	309 327	388 410	472 499	562 594	661 699	838 925	929 1025	1020 1126	1111 1226	1202 1308	1293 1428
354-14 Single-tier	H-4	1	1" copper	3" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145		230 243	309 327	388 410	472 499	562 594	661 699	838 925	929 1025	1020 1126	1111 1226	1202 1308	1293 1428
355-14 Single-tier	H-5x	1	1-1/2" copper	3" x 31/4" x .020" aluminum	48	1 GPM 4 GPM	6 63	2160	236 249	317 335	397 420	484 512	576 609	678 717	859 948		1045 1154	1139 1257	1233 1361	1326 1464
356-14 Single-tier	H-6x	1	1-1/4" IPS steel	3" x 3¼" x .028 aluminized steel	48	1 GPM 4 GPM	3 41	1870	204 216	273 289	343 363	417 441	497 525	585 618	742 819	822 907	903 997	984 1085	1064 1175	
351-14 Two-tier	H-1	2	3/4" copper	3" x 3¼" x .024 aluminum	48	1 GPM 4 GPM	47 525		360 380	480 510	610 640	740 780	880 970	1040 1150	1290 1420	1440 1590		1740 1920		2030 2250
353-14 Two-tier	H-3	2	3/4" copper	2¾" x 2½" x .011"" aluminum	55	1 GPM 4 GPM	47 525		340 360	460 490	570 600	700 740	830 910	980 1080	1210 1340	1350 1490	1490 1650		1770 1960	1910 2110
354-14 Two-tier	H-4	2	1" copper	3" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145	_	340 360	460 490	570 600	700 740	830 910	980 1080	1210 1340			1630 1800		1910 2110
355-14 Two-tier	H-5x	2	1-1/4" copper	3" x 3¼" x .020" aluminum	48	1 GPM 4 GPM	6 63	2160	350 370	470 500	590 620	710 750	850 940	1000 1100	1240 1370	1390 1530		1670 1850		1960 2160
356-14 Two-tier	H-6x	2	1-1/4" IPS steel	3" x 31/4" x .028 aluminized steel	48	1 GPM 4 GPM	3 41	1870	300 320	400 420	500 530	610 640	730 810	860 950	1070 1190	1200 1320	1320 1460		1570 1730	

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

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.



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

telescopic accessories





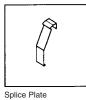




Inside Corner



Valve Cover







Wall Trim

4" Hinged End Cap slotted or unslotted

Filler Sleeve All accessories are available for 10" and 14" high cabinets.

[†] Millinches per foot.

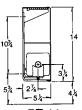


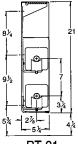
Aluminum grille optional.

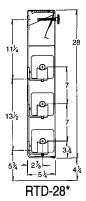


*Details for optional R-Series Damper model RTD-28









R SERIES FLAT-TOP ENCLOSURE

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



ORDERING DATA

CONSTRUCTION: Single piece cover mounts on wall brackets.

DEPTH: 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.

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

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

		ded number of bi gers for given len	
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.



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. 30.

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

Louver locations

R-Series enclosures may be ordered with these alternate louver locations:

Model RF: Louvered front (N/A on RL-10 & RAG-10) Model RB: Louvered top and front (N/A on RL-10 & RAG-10)

OTHER OPTIONS

Damper, field installed

(not available with aluminum grille)

Back panel.

16 and 14-gauge cover.

Access door, field installed.

Inlet grille.

Architectural aluminum grille.

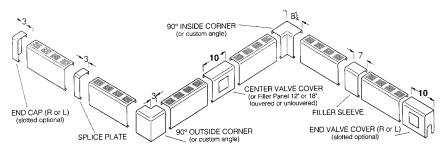
Custom color.

					Fins	Steam 1 PSI*				ВТ	_		R RATIN w Rate		ec.)			
Cover Type	Enclosure Height	Element Type	Tube Size and Material	Fin Size and Material	Per Foot	Btu/Hr. Per Foot	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
RL-10 RR-10	9 %"	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	1230 1330 1270 1647 1740 1710	246 266 254 329 348 342	320 346 330 428 452 445	406 439 419 544 574 564	492 532 508 659 696 684	554 599 572 742 783 770	652 705 673 872 922 906	750 811 755 1004 1061 1043	849 918 876 1136 1201 1180	959 1037 991 1285 1357 1334	1058 1144 1092 1417 1496 1471	1169 1264 1207 1565 1653 1625	1292 1397 1334 1730 1827 1796
RT-14 RR-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	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	1280 1500 1320 1714 1820 1780	256 300 264 343 364 356	333 390 343 446 473 463	422 495 436 566 601 587	512 600 528 685 728 712	576 675 594 771 819 801	678 795 700 908 965 943	781 915 805 1046 1110 1086	883 1035 911 1183 1256 1228	998 1170 1030 1337 1420 1388	1101 1290 1135 1474 1565 1531	1216 1425 1254 1628 1729 1691	1344 1575 1386 1800 1911 1869
RT-21 RR-21 One-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	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	1380 1610 1460 1878 1990 1950	276 322 292 376 398 390	359 419 380 488 518 507	455 531 482 620 657 644	552 644 584 751 796 780	621 725 657 846 896 878	731 853 774 996 1055 1034	842 982 891 1146 1214 1190	952 1111 1007 1296 1373 1346	1076 1256 1139 1465 1552 1521	1187 1385 1256 1615 1711 1677	1311 1530 1387 1784 1891 1853	2090
RT-21 RR-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	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	2200 2440 2230 2668 2830 2770	440 488 446 534 566 554	572 634 580 694 736 720	726 805 736 881 934 914	880 976 892 1067 1132 1108	990 1098 1004 1201 1274 1247	1166 1293 1182 1414 1500 1468	1342 1488 1360 1627 1726 1690	1518 1684 1539 1840 1953 1911	1716 1903 1739 2081 2207 2161	1892 2098 1918 2294 2434 2382		2562 2342 2801 2972
RT-28 RR-28 One-tier element	28"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ½" copper 1" copper 1½" copper	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	1400 1680 1480 1907 2020 1980	280 336 296 381 404 396	364 437 385 496 525 515	462 554 488 629 667 653	560 672 592 763 808 792	630 756 666 858 909 891	742 890 784 1010 1071 1049	854 1025 903 1163 1232 1208	956 1159 1021 1315 1394 1366	1092 1310 1154 1487 1576 1544	1204 1445 1273 1640 1737 1703	1330 1596 1406 1811 1919 1881	2002
RT-28 RR-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	2260 2460 2270 2860 3030 2970	452 492 454 572 606 594	588 640 590 744 788 772	746 812 749 944 1000 980	904 984 908 1144 1212 1188	1017 1107 1022 1288 1364 1337	1198 1304 1203 1516 1606 1574	1379 1501 1385 1745 1848 1812	1559 1697 1566 1973 2091 2049	1763 1919 1771 2231 2363 2317		2157 2718	2373 2583 2384 3004 3182 3119
RT-28 RR-28 Three-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.	32 40 32 40 40 40	2580 2800 2660 3390 3590 3520	516 560 532 678 718 704	671 728 692 881 934 915	878 1119 1185	1032 1120 1064 1356 1436 1408	1161 1260 1197 1525 1616 1584	1367 1484 1410 1797 1903 1866	1574 1708 1623 2068 2190 2147	1780 1932 1835 2339 2477 2429	2012 2184 2075 2644 2800 2746	2219 2408 2288 2915 3087 3027	2660	2709 2940 2793 3559 3770 3696

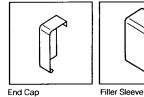
^{*}Based on 65°F entering air temperature.

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

ACCESSORIES

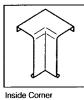


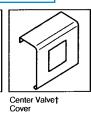
telescopic accessories

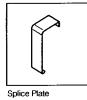


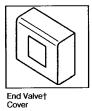


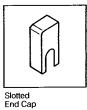






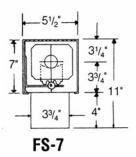


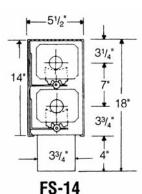


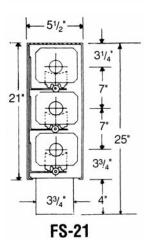


† Access doors: 6" x 6". Door location depends on model.





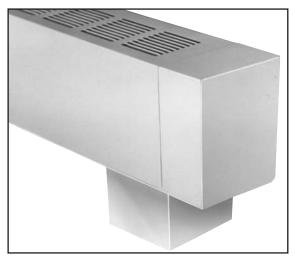




FS SERIES

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', 3½', 4', 5', 6', 7', 8'. Other ½' 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.

FINISH: Galvanized standard. Custom color baked enamel available on special order. Anodized architectural aluminum grille optional. Stainless steel escutcheon for pedestals standard.

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

		nded number of br igers for given leng	
Element	2	4	
S-532	2-5 ft.	6-7 ft.	8 ft.
S-540	2-5 ft.	6-7 ft.	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.

ELEMENTS: Copper with aluminum fins: C-340, C-440, C-540. Steel with electro-galvanized steel fins: S-532, S-540. Lengths from 2 to12 feet. See p. 30.

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.

NOTE: Pedestals used as a pipe chase for individual vertical supply or return pipes (max 1-1/4" pipe) must be dedicated for pipe chase use and will not be able to support element or horizontal piping. SC hangers will not fit into pedestals used for this function

OPTIONS

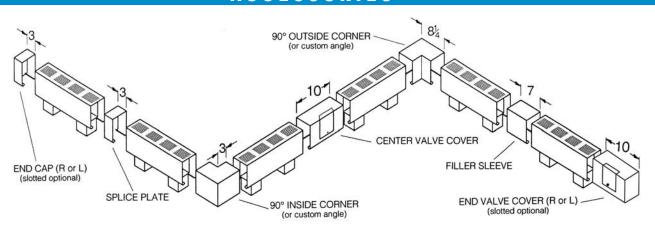
Heavier gauge cover.
Access door, field installed.
Architectural aluminum grille.
Custom color.

					Fins	Steam 1 PSI*					BTU/			RATINGS Rate 3 F)		
Cover Type	Enclosure Height	Element Type	Tube Size & Material	Fin Size & Material	Per Foot	Btu/Hr. Per Foot	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
		S-532	1¼" steel	4¼" steel	32	1290	258	336	426	516	581	684	787	890	1006	1109	1226	1355
		S-540	1¼" steel	41/4" steel	40	1390	278	362	459	556	626	737	848	959	1084	1195	1321	1460
FS-7	7"	C-340	34" copper	4¼" alum.	40	1579	316	411	521	632	711	837	963	1090	1232	1358	1500	1658
		C-440	1" copper	4¼" alum.	40	1670	334	434	551	668	752	885	1019	1152	1303	1436	1587	1754
		C-540	1¼" copper	4¼" alum.	40	1640	328	426	541	656	738	869	1000	1132	1279	1410	1558	1722
		S-532	1¼" steel	4¼" steel	32	1330	266	346	439	532	599	705	811	918	1037	1144	1264	1397
FS-14		S-540	1¼" steel	4¼" steel	40	1540	308	400	508	616	693	816	939	1063	1201	1324	1463	1617
One-tier	14"	C-340	¾" copper	4¼" alum.	40	1782	356	463	588	713	802	945	1087	1230	1390	1532	1693	1871
element		C-440	1" copper	4¼" alum.	40	1890	378	492	624	756	851	1002	1153	1304	1474	1625	1796	1985
0.0		C-540	11/4" copper	4¼" alum.	40	1850	370	481	611	740	833	981	1129	1277	1443	1591	1758	1943
		S-532	1¼" steel	4¼" steel	32	1850	370	481	611	740	833	981	1129	1277	1443	1591	1758	1943
FS-14		S-540	1¼" steel	4¼" steel	40	1955	391	508	645	782	880	1036	1193	1349	1525	1681	1857	2053
Two-tier	14"	C-340	¾" copper	4¼" alum.	40	2311	462	601	763	925	1040	1225	1410	1595	1803	1988	2196	2427
element		C-440	1" copper	4¼" alum.	40	2450	490	637	809	980	1103	1299	1495	1690	1911	2107	2328	2573
		C-540	11/4" copper	4¼" alum.	40	2400	480	624	792	960	1080	1272	1464	1656	1872	2064	2280	2520
		S-532	1¼" steel	4¼" steel	32	1610	322	419	531	644	725	853	982	1111	1256	1385	1530	1691
FS-21		S-540	1¼" steel	4¼" steel	40	1675	335	435	553	670	754	888	1022	1156	1307	1441	1591	1759
One-tier	21"	C-340	¾" copper	4¼" alum.	40	2008	402	522	663	803	903	1064	1225	1386	1566	1727	1908	2108
element		C-440	1" copper	4¼" alum.	40	2130	426	554	703	852	959	1129	1299	1470	1661	1832	2024	2237
		C-540	1¼" copper	4¼" alum.	40	2085	417	542	688	832	938	1105	1272	1439	1626	1793	1981	2189
		S-532	1¼" steel	4¼" steel	32	2140	428	556	706	856	963	1134	1305	1477	1669	1840	2033	2247
FS-21		S-540	1¼" steel	4¼" steel	40	2245	449	584	741	898	1010	1190	1369	1549	1751	1931	2133	2357
Two-tier	21"	C-340	¾" copper	4¼" alum.	40	2648	528	686	871	1056	1192	1404	1616	1827	2066	2277	2516	2781
element		C-440	1" copper	4¼" alum.	40	2810	562	731	927	1124	1265	1489	1714	1939	2192	2417	2670	2951
		C-540	1¼" copper	4¼" alum.	40	2750	550	715	908	1100	1238	1458	1678	1897	2145	2365	2613	2888
F0.04		S-532	1¼" steel	4¼" steel	32	2380	476	619	785	952	1071	1261	1452	1642	1856	2047	2261	2499
FS-21		S-540	1¼" steel	4¼" steel	40	2540	508	660	838	1016	1143	1346	1549	1753	1981	2184	2413	2667
Three-tier	21"	C-340	¾" copper	4¼" alum.	40	3005	601	781	991	1202	1352	1593	1833	2073	2344	2584	2854	3155
element		C-440 C-540	1" copper 11/4" copper	4¼" alum. 4¼" alum.	40 40	3180 3120	636 624	827 811	1049 1030	1272 1248	1431 1404	1685 1654	1940 1903	2194 2153	2480 2434	2735 2683	3021 2964	3339 3276
		0-040	174 copper	T/4 aluill.	40	3120	024	011	1000	1240	1404	1004	1903	2100	2404	2003	2304	3270

*Based on 65°F entering air temperature.

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

ACCESSORIES

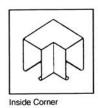


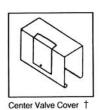
telescopic accessories

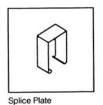


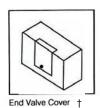












† Access doors: 6" x 6". Door location depends on model.



TBG SERIES

SLOPE-TOP/BOTTOM ENCLOSURES

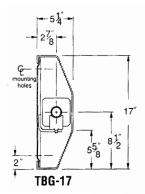


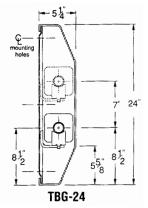


ELEMENTS: Copper with aluminum fins: C-340, C-440, C-540. Steel with electro-galvanized steel fins: S-532, S-540, S-832. Lengths from 2 to 12 feet. See p. 30.

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.

Custom Heights & Configurations Available





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.

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

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

		nded number of ngers for given le	
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.

OPTIONS

14-gauge cover.

Access door, field installed.

Architectural aluminum grille.

Damper, field installed

(not available with aluminum grille)

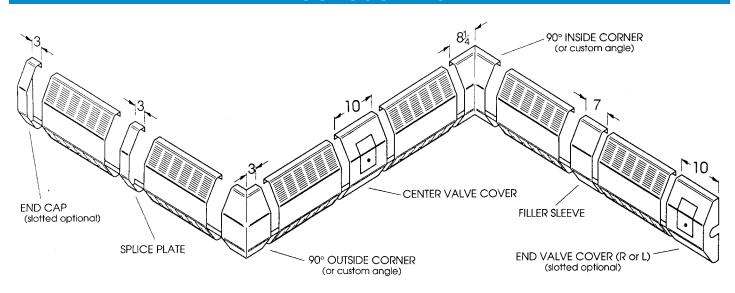
Custom color.

					Fins	Steam 1 PSI* Btu/Hr.				ВТІ		WATEF T. (Flow			ec.)			
Cover Type	Enclosure Height	Element Type	Tube Size & Material	Fin Size & Material	Per Foot	Per Foot	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
TBG-17	17"	S-532 S-540 S-832 C-340 C-440	1½" steel 1½" steel 2" steel ¾" copper 1" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum.	32 40 32 40 40	1250 1344 1201 1595 1690	250 269 240 319 338	325 349 312 415 440	413 444 396 526 558	500 538 480 638 676	563 605 540 717 761	663 712 637 846 896	763 820 733 973 1031	862 927 829 1101 1166		1075 1156 1033 1371 1453	1188 1277 1141 1515 1606	1411 1261 1675 1775
TBG-24 One-tier element	24"	C-540 S-532 S-540 S-832 C-340 C-440 C-540	1¼" copper 1¼" steel 1¼" steel 2" steel ¾" copper 1" copper 1¼" copper	4½" alum. 4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	40 32 40 32 40 40 40	1656 1460 1505 1345 1798 1910 1868	331 292 301 269 360 382 374	380 391 350 468 497 486	546 482 497 444 594 630 617	584 602 538 720 764 747	745 657 677 605 810 860 841	878 774 798 713 953 1012 990	891 918 820 1097 1165 1139		1139 1174 1049 1403 1490	1424 1256 1294 1157 1547 1643 1606	1573 1387 1430 1278 1709 1815 1775	1533 1580 1412 1888 2006
TBG-24 Two-tier element	24"	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.	32 40 32 40 40 40	1980 2102 1890 2337 2480 2427	396 420 378 468 496 485	515 547 492 608 645 631	653 694 624 772 818 801	792 841 756 935 992 971	891 946 851 1052 1116 1092	1049 1114 1002 1238 1314 1286	1208 1282 1153 1425 1513 1480	1366 1450 1304 1613 1711 1675	1640 1474 1823 1934	1703 1808 1625 2010 2133 2087	1881 1997 1796 2221 2356 2306	2079 2207 1985 2454 2604 2548

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

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

ACCESSORIES

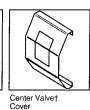


TELESCOPIC ACCESSORIES













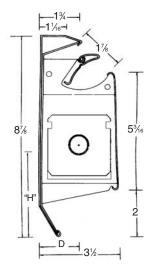


End Valve† Cover

Slotted End Cap

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





ELEMENT	"H"	"D"
H-1	37/8"	13/4"
H-3	31/2"	19⁄16″
H-4	31/2"	19/16"
H-5x	37/8"	13/4"
H-6x	37/8"	13/4"

MULTI/PAK® 80 HIGH-OUTPUT, LOW-PROFILE BASEBOARD



NOT AVAILABLE IN CANADA

Made with
Rust-Resistant
Galvanized Steel.

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

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

INTERCHANGEABLE HEATING ELEMENTS:

Available with a choice of five heating elements, Multi/Pak 80 meets a wide variety of heating requirements. With the optional *high-output* 3/4" copper/aluminum element, it is the perfect alternative to costly, bulky commercial enclosures in "problem areas" of high heat loss. Optional 1" and 11/4" copper/aluminum elements permit higher flow rates, longer series-loop runs and lower pump loads. The 11/4" elements are suitable for use in one or two pipe steam systems.

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 packaged and shipped separately.

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

DEPTH: 3½" **HEIGHT**: 8¾"

LENGTHS: 2', 3', 3½', 4', 5', 6', 7', 8', 10', 12', 14'.

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

FINISH: Nu-White baked enamel.

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

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



		Tube		Fins			Steam 1 PSI ‡					нот		R RATII IR./FT.	IGS ‡				
Model Number	Element Type	Size and Material	Fin Size and Material	per Foot	Water Flow	Pressure Drop†	Btu/Hr. Per Foot	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
81 A	H-1	¾" copper	3 x 3½" x .024" aluminum	48	1 GPM 4 GPM	47 525		210* 220*	290* 310*	360* 380*	440* 470*	520 550	610 640	700 740	790 840	880 930	970 1030		1140 1200
83-A2	H-3	¾" copper	24" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525		200* 210*	270* 290*	340* 360*	410* 430*	490 520	570 600	650 690	730 770	810 860	890 940	970 1030	1050 1110
84-A3	H-4	1" copper	3" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145		200* 210*	260* 270*	330* 350*	400* 420*	480 510	560 610	640 680	720 760	800 850	880 930	960 1010	1040 1100
85-AX	H-5X	1½" copper	3" x 3½" x .020" aluminum	48	1 GPM 4 GPM	6 63	1130	190* 200*	260* 270*	320* 340*	390* 410*	470 500	560 590	650 690	740 780	830 890	920 970		1100 1160
86-AX	H-6X	11/4" IPS steel	3" x 3¼" x .028" aluminized steel	48	1 GPM 4 GPM	3 41	990	<u> </u>	-	_	<u> </u>	410 430	490 520	560 590	640 680	710 750	790 840	860 910	940 990

[†] Millinches per foot. *Ratings at 140°F and lower temperatures determined by multiplying 150°F rating by the applicable factor specified in Table E in the I=B=R Testing and Rating Standard for Baseboard radiation.

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

3/4" nominal copper tubing with 3" x 3-1/4' x .024" aluminum fins spaced 48 per linear foot (unpainted); 81-A:

3/4" nominal copper tubing with 2-3/4" x 2-1/2" x .011" aluminum fins spaced 45 per linear foot (unpainted); 1" nominal copper tubing with 3" x 2-1/2" x .011" aluminum fins spaced 48 per linear foot (unpainted); 83-A2:

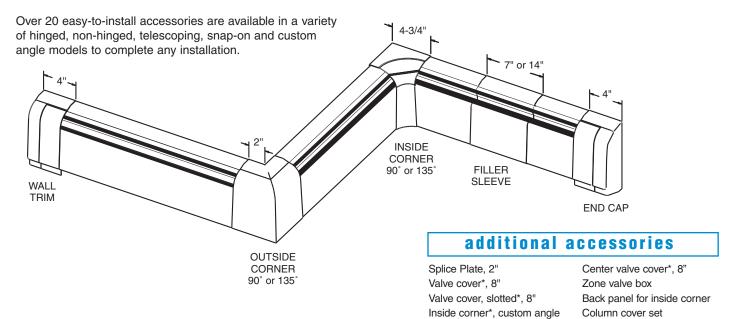
84-A3:

85-AX 1-1/4" nominal copper tubing with 3" x 3-1/4" x .020" aluminum fins spaced 48 per linear foot (unpainted);

1-1/4" IPS steel with 3" x 3-1/4" x .028" aluminized steel fins spaced 48 per linear foot (unpainted);

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

ACCESSORI



TELESCOPIC ACCESSORIES



Filler Sleeve



Hinged End Cap



Hinged Wall Trim



Hinged Valve Cover



Outside corner*, custom angle

Hinged Inside Corner

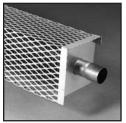


Outside Corner

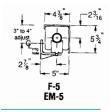
*Telescopic accessories

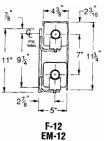
[‡] With 65°F entering air.

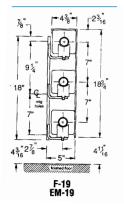












Element positions shown maximize output of enclosure. Single or double rows of elements may be placed in any of the two or three positions. Element position is adjustable vertically by 1%" and horizontally by 15%6".

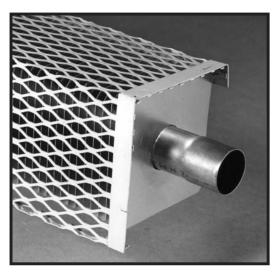
F & EM SERIES

LOUVERED AND EXPANDED METAL ELEMENT COVERS

F and EM Series are industrial covers where the cover hangs directly on the 4-1/4" by 4-3/4" finned tube element. Available from the factory in a protective galvanized finish or baked enamel over the protective galvanized finish.







EM SERIES

ORDERING DATA

CONSTRUCTION: Single piece cover attaches directly to element.

DEPTH: 4%"

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: F: 18 or 16-ga cover. EM: 16-ga cover.

FINISH: Galvanized standard. Available in baked enamel.

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

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.

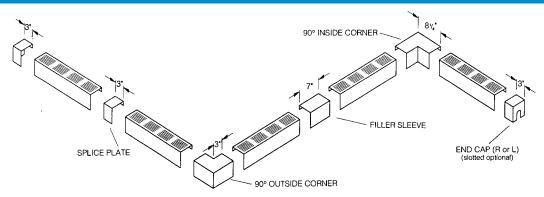
JOINTS: Telescopic accessories eliminate the need to perfectly butt one length of cover to the next. Critical linear and vertical tolerances are eliminated because telescopic assembly absorbs misalignment that might result from uneven floors and walls.

	of brack	ımended ı kets and h given lenç	nangers
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.	_

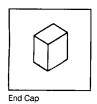
					Fins	Steam 1 PSI*				ВТ			R RATIN		ec.)			
Model Number	Enclosure Height	Element Type	Tube Size and Material	Fin Size and Material	Per Foot	Btu/Hr. Per Foot	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
		S-532	1¼" steel	4¼" steel	32	1250	250	325	413	500	563	663	763	862	975			1313
		S-540	1¼" steel	4¼" steel	40	1340	268	348	442	536	603	710	817	925	1045		1273	
	4270	S-832	2" steel	4¼" steel	32	1280	256	333	422	512	576	678	781	883		1101		1344
F-5	4¾"	C-340 C-440	¾" copper	4¼" alum.	40	1560 1650	312	406 429	515 545	624 660	702 743	827 875	951 1007	1077 1139	1217	1341	1482 1568	1638
		C-440 C-540	1" copper	4¼" alum. 4¼" alum.	40 40	1620	330 324	429	535	648	729	859	988	1118	1287 1264	1419		1733 1701
			1¼" copper 1¼" steel				_											2174
		S-532 S-540	1¼" steel	4¼" steel 4¼" steel	32 40	2070 2160	414 432	538 562	683 713	828 864	932 972	1097 1145	1263 1318	1428 1490	1615 1685	1780 1858	2052	
F-12		S-832	2" steel	4¼" steel	32	2090	418	544	690	836	941	1108	1275	1442		1797		2195
Two-tier	11¾"	C-340	34" copper	41/4" alum.	40	2600	520	676	858	1040	1170	1378	1586	1794	2028			2730
element	11/4	C-440	1" copper	4¼" alum.	40	2750	550	715	908	1100	1238	1458	1678	1897	2145		2613	
Olomoni		C-540	1¼" copper	4¼" alum.	40	2700	540	702	891	1080	1215	1431	1647	1863	2106			2835
		S-532	1¼" steel	4¼" steel	32	2580	516	671	851	1032	1161	1367	1574	1780		2219	2451	2709
		S-540	1¼" steel	4¼" steel	40	2690	538	700	888	1076	1211	1426	1641	1856	2098	2313	2556	2825
F-19		S-832	2" steel	4¼" steel	32	2610	522	679	861	1044	1175	1383	1592	1801	2036	2245	2480	2741
Three-tier	18¾"	C-340	¾" copper	4¼" alum.	40	3139	628	816	1036	1256	1413	1664	1915	2166	2449	2700	2982	3296
element		C-440	1" copper	4¼" alum.	40	3330	666	866	1099	1332	1499	1765	2031	2298	2597	2864	3164	3497
		C-540	1¼" copper	4¼" alum.	40	3260	652	848	1076	1304	1467	1728	1989	2249	2543	2804	3097	3423
		S-532	11/4" steel	4¼" steel	32	1290	258	336	426	516	581	684	787	890	1006			1355
		S-540	1¼" steel	4¼" steel	40	1370	274	356	452	548	617	726	836	945		1178	1302	1439
		S-832	2" steel	4¼" steel	32	1310	262	341	432	524	590	694	799	904		1127	_	1376
EM-5	4¾"	C-340	¾" copper	4¼" alum.	40	1656	331	431	547	663	745	878	1010	1143	1292	1424	1574	1739
		C-440	1" copper	4¼" alum.	40	1750	350	455	578	700	788	928	1068	1208	1365			1838
		C-540	11/4" copper	4¼" alum.	40	1720	344	447	568	688	774	912	1049	1187	1342	1479	1634	1806
		S-532	1¼" steel	4¼" steel	32	2270	454	590	749	908	1022	1203	1385	1566	1771	1952		2384
		S-540	1¼" steel	4¼" steel	40	2390	478	622	789	956	1076	1267	1458	1649	1864	2055		2510
		S-832	2" steel	4¼" steel	32	2290	458	596	756	916	1031	1214	1397	1580	1786		2176	
EM-12	11¾"	C-340	¾" copper	4¼" alum.	40	2918	584	759	963	1167	1314	1547	1780	2014	2276		2772	
Two-tier		C-440	1" copper	4¼" alum.	40	3090	618	804	1020	1236	1391	1638	1885	2132	2410	2657		3245
element		C-540	1¼" copper	4¼" alum.	40	3030	606	788	1000	1212	1364	1606	1848	2091	2363	2606		3182
		S-532	1¼" steel	4¼" steel	32	3060	612	796	1010	1224	1377	1622	1867	2111	2387	2632		3213
		S-540	1¼" steel	4¼" steel	40	3140	628	816	1036	1256	1413	1664	1915	2167		2700		3297
	102/11	S-832	2" steel	4¼" steel	32	3080	616	801	1016	1232		1632	1879	2125	2402			3234
EM-19	18¾"	C-340	¾" copper	4¼" alum.	40	3736	747	972	1233	1495	1681		2279	2578	2914	-		3923
Three-tier		C-440 C-540	1" copper	4¼" alum. 4¼" alum.	40 40	3960 3880	792 776	1030	1307 1280	1584 1552	_	2099	2416 2367		3089 3026	3406		4158
element		U-540	11/4" copper	4¼" aium.	40	3880	//6	11009	1280	1552	1746	12056	2367	20//	3026	333/	3086	4074

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

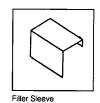
ACCESSORIES

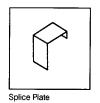


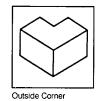
TELESCOPIC ACCESSORIES





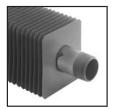




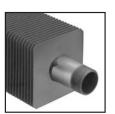




Inside Corner



S-532



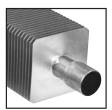
S-540



S-832



C-340



C-440



C-540

BARE ELEMENTS

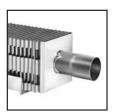
STEEL ELEMENTS COPPER/ALUMINUM ELEMENTS



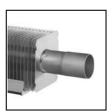
H-1



H-3



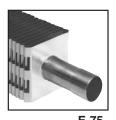
H-4



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

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

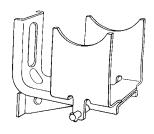
ORDERING DATA

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

LENGTHS: Precut standard lengths S and C Series: 2, 3, 3½, 4, 5, 6, 7, 8, 9, 10, 11, 12 feet. (C-340 up to 10 ft.)

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

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



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

BARE ELEMENT RATINGS

			Fins	No.of		Steam 1 PSI*				BTU	_		R RATIN w Rate		ec.)			
Model Number	Tube Size and Material	Fin Size and Material	per Foot	Tiers 7" cl	Pressure Drop †	Btu/Hr. Per Foot	110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
S-532	11/4"IPS steel	4½" x 4½" x .024" electro-gal. steel	32	1 2 3	420	1080 1950 2560	216 390 512	281 507 666	356 644 845	432 780 1024	486 878 1152	572 1034 1357	659 1190 1562	745 1346 1766	_	929 1677 2202	1026 1853 2432	2048
S-540	11/4"IPS steel	4½" x 4½" x .024" electro-gal. steel	40	1 2 3	420	1300 2210 2810	260 442 562	338 575 731	429 729 927	520 884 1124	585 995 1265	689 1171 1489	793 1348 1714	897 1525 1939		1901	1235 2100 2670	2321
S-832	2"IPS steel	4½" x 4½" x .024" electro-gal. steel	32	1 2 3	252	1130 2010 2650	226 402 530	294 523 689	373 663 875	452 804 1060	509 905 1193	599 1065 1405	689 1226 1617	780 1387 1829		972 1729 2279	1910	1187 2111 2783
C-340	¾"copper	4½" x 4½" x .020" aluminum	40	1 2 3	708	1610 2830 3620	322 566 724	419 736 941	531 934 1195	644 1132 1448	725 1274 1629	853 1500 1919	982 1726 2208	1111 1953 2498	1256 2207 2824	1385 2434 3113	1530 2689 3439	2972
C-440	1" copper	4½" x 4½" x .020" aluminum	40	1 2 3	504	1650 2890 3710	330 578 742	429 751 965	545 954 1224	660 1156 1484	743 1301 1670	875 1532 1966	1007 1763 2263				1568 2746 3525	3035
C-448	1" copper	4¼" x 4¼" x .020" aluminum	48	1 2 3	504	1690 2970 3790	338 594 758	439 772 985	558 980 1251	676 1188 1516	761 1337 1706	896 1574 2009	1031 1812 2312	2049	2317	1453 2554 3259	1606 2822 3601	3119
C-540	1½" copper	4½" x 4½" x .020" aluminum	40	1 2 3	396	1700 2990 3830	340 598 766	442 777 996	561 987 1264	680 1196 1532	765 1346 1724	901 1585 2030	1037 1824 2336	1173 2063 2643	2332	1462 2571 3294	1615 2841 3639	3140
H-1	¾" copper	3" x 3½" x .024" aluminum	48	1 2 3	708		218 392 640	283 510 832	360 647 1056	436 784 1280	491 882 1440	578 1039 1696	665 1196 1952	752 1352 2208	850 1529 2496	937 1686 2752	1036 1862 3040	2058
H-5X	1½" copper	3" x 31/4" x .020" aluminum	48	1 2 3	396	940 1330 2110	188 266 422	244 346 549	310 439 696	376 532 844	423 599 950	498 705 1118	573 811 1287	649 918 1456	733 1037 1646	808 1144 1815	893 1264 2005	987 1397 2216
H-6X	1¼" IPS steel	3" x 3½" x .028" aluminized steel	48	1 2 3	420	850 1290 1840	170 258 368	221 335 478	281 426 607	340 516 736	383 581 828	451 684 975	519 787 1122	587 890 1270		731 1109 1582	808 1226 1748	

* Based on 65°F entering air temperature. † Millinches per foot, based on flow rate of 3FPS; according to ASHRAE fundamentals handbook, 2001 NOTE: H-3, H-4 and E-3 elements are not recommended for bare-element installation. H-1 is not recommended for steam applications.

Ratings are based on active finned length (S & C series 5-1/4" less than overall length.) (H series–3" less than overall length.)

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

Active Finned Length

7"

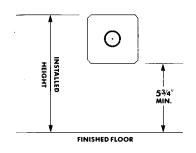
117/6"

2 tier

1 tier

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 5¾" from finished floor to bottom of fins of lowest element.





ENGINEERING DATA*

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

Flow Rate Ft./Sec.	Factor	Flow Rate Ft./Sec.	Factor
3.0	1.00	1.5	.973
2.75	.996	1.25	.966
2.5	.992	1.0	.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 activelength, based on steam or 215° F, 1 PSI, (101.5° C) and 65° F (18.3° C) entering air.

Recommended Installed Height

(Does not apply to units with horizontal outlet)

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



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

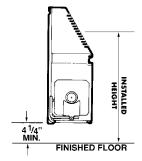
Given:

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" 24"	1.08
34"	1.01	24"	1.09
32"	1.02	23" 22"	1.10
30"	1.03	22"	1.11
29"	1.04	21"	1.12
34" 32" 30" 29" 28" 27"	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	he 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 to one-tier (90-14) and two-tier (90-21) models. (Optional: A knob-actuated damper shall be provided). Top cover shall consist of stamped grille with pencil-proof air discharge louvers. Front cover shall interlock with top cover to form lateral decorative panel. Front cover shall be removable without removal of the top cover.

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

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

Fin-tube element(s) shall be Model_____.

Provide lengths and capacities as scheduled on plans.

Furnish required channeled bracket-hanger assemblies with heavy flag brace for rigid front panel and element support. Provide all required accessories for complete installation. Cover 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 onetier (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 onetier 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.

JA-14, JA-21 or JA-28 Series

Furnish and install as shown on the plans JA slope-top fin-tube enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin 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. (Optional: A knob-actuated damper shall be provided.)

Cover shall be fabricated from 18 (16 or 14) gauge galvanized steel. Cover finish shall be galvanized or powder coated to a color as per specification. Brackets and hangers shall have a galvanized finish. Cover panels to join using Internal Splice Plates, resultant joint has covers butting to one another resulting in a clean joint without unsightly weld marks on front of cover.

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

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

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

Fin-tube element(s) shall be Model____.
Provide lengths and capacities as scheduled on plans.
Furnish required channeled bracket-hanger assemblies
with heavy flag brace for rigid front panel and element
support.

JL-10 Series

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

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

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

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

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

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

Fin-tube element(s) shall be Model____.
Provide lengths and capacities as scheduled on plans.
Furnish required channeled bracket-hanger assemblies
with heavy flag brace for rigid front panel and element
support.

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 electro galvanized shall consist of stamped grille with pencil-proof air discharge louvers. All enclosures shall have female-to-female slip joint connection with interlocking internal splice. The internal splice provides additional strength with a nearly invisible joint.

Cover shall be fabricated from 18 (16 or 14) gauge galvanized steel 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 rigid front skirt and element support.

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

TBG Series

Furnish and install as shown on the plans "TBG" Series top & bottom slope enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin 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. All enclosures shall have female-to-female slip joint connection with interlocking internal splice. The internal splice provides additional strength with a nearly invisible joint. (Optional: A full height back panel shall be provided of 20-gauge steel in hot dipped wiped coat galvanized finish.)

Cover shall be fabricated from 16 gauge (14 gauge option) steel in galvanized finish or as custom matched as per specification.

Brackets and hangers shall be channeled steel in hot dipped 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 channeled bracket for rigid front skirt and element support.

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

R Series

Furnish and install as shown on the plans "R" Series round top enclosures with elements, required mounting components and all accessories as manufactured by Slant/Fin 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. All enclosures shall have female-to-female slip joint connection with interlocking internal splice. The internal splice provides additional strength with a nearly invisible joint. (Optional: A full height back panel shall be provided of

20-gauge electro galvanized steel finish.)

Cover shall be fabricated from 18 (16 or14) 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 electro galvanized steel shall be telescopic and match enclosure color.

350 Series

Furnish and install 350 Series Model_baseboard cover assembly as manufactured by Slant/Fin Corporation, consisting of one-piece bottom, back and top panel, and one-piece 19 (16) gauge front panel, formed of cold rolled steel. Bottom and top edges of back panel shall be formed to provide channels along entire length, to receive full-height support brackets.

Brackets shall be die formed of electro-galvanized cold rolled steel, for rigid bracing and spring locking. Slide-action expansion cradles, formed of polypropylene, shall be inserted between heating element and support 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

Front cover shall be fabricated from 16-gauge galvanized steel, back panel from 20-gauge galvanized steel. The front panel & accessories shall be finished in galvanized finish 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 hanger shall be spot welded to back panel every 12 inches. There shall be dimpled anchoring holes every 12 inches on front cover. Use 8 x 3/8" self-tapping screws with countersunk heads to fasten front cover to brackets. Screws recess into dimpled anchoring holes on front cover. Screws are supplied in carton with cover.

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

LC Series

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

Front Cover shall be fabricated from 18-gauge galvanized steel. Top horizontal lip of cover shall be no wider than 7/8 inch, this is to prevent standing on the cover. Outlet louvers shall be located on the front sloped face of the cover, louvers located on the top of the cover are not acceptable. Cover finish shall be galvanized finish or custom color matched as per specification.

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

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

Provide all required accessories for a complete installation. Accessories shall be telescopic to eliminate the need to perfectly butt one length of cover to the next. Accessories to be fastened with pan head screws to front cover, screws are field supplied.

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 galvanized steel. Bottom and top edges of back panel shall be formed to provide channels along entire length, to receive full-height support brackets.

Brackets shall be die formed of zinc-bonded 16-gauge quarter-hard cold rolled steel, for rigid bracing and spring locking. Slide-action expansion cradles, formed of polypropylene, shall be inserted between heating element and support bracket. 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.

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 (16-gauge for EM) steel in electro galvanized finish or as custom color matched as per specification.

Brackets and hangers shall be channeled steel in electro galvanized 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.

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 1½" nominal* copper seamless-drawn tubing* with 4½" x 4½"x .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 %" nominal copper tubing, with 3" x 3%"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 0.11"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 31% 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-75E Element

Furnish and install E-75 baseboard heating element as manufactured by Slant/Fin Corporation, consisting of %" nominal copper tubing with 2%" x 2%"x .009" aluminum fins, bent to 2%"x 2½", 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. End fins are of plated steel for extra ruggedness. One end of each element tube shall be expanded to receive the unexpanded end of another, without couplings.

NOTES

