









COMMERCIAL FIN-TUBE Radiation Selection Guide

Slant Fin.

America's premier manufacturer of hydronic heating equipment.





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

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

Standard and custom designs.

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

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

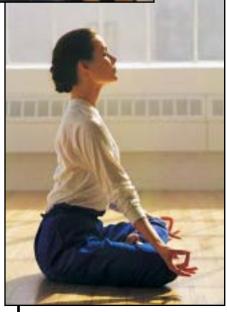
Faster Delivery.

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

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

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





MULTI/PAK®90 SERIES

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

Style: Slope-top and flat-top. Aluminum grille optional (90 & 95).

Application: Commercial heating. Hot water or steam.

373 to 3140 Btu/hr. Output: Elements: Choice of 12. Copper/aluminum

or steel.

Nu-White baked enamel Finish:

or custom colors.

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

Multi/Pak 90 provides what you need:

slope-top and flat-top styling

· wide choice of elements for hot water

or steam

precision built accessories



Multi/Pak 90 Series page 4-11

J SERIES

1-piece fin-tube enclosure. Slope-top Style:

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 12-13

FS SERIES

Free standing fin-tube enclosure.

Style: Pedestal mounted enclosure.

Application: Commercial heating. Hot water or steam.

581 to 3339 Btu/hr. Output: Choice of 6. Copper/aluminum Elements:

or steel.

Finish: Galvanized or custom colors.



FS page 14-15

TBG SERIES

1-piece fin-tube enclosure.

Style: Slope top and bottom. Application:

Commercial heating. Hot water

or steam.

Ideal for upper wall installation.

540 to 2548 Btu/hr. Output:

Elements: Choice of 6. Copper/aluminum

Galvanized or custom colors. Finish:



TBG page 16-17

R SERIES

1-piece fin-tube enclosure.

Style: Flat-top. Aluminum grille

optional.

Commercial heating. Hot Application:

water or steam. 554 to 3770 Btu/hr. Output:

Elements: Choice of 6. Copper/aluminum

or steel.

Galvanized or custom colors. Finish:



R

page 18-19

350 SERIES

High output slope-top baseboard.

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

water or steam 460 to 2250 Btu/hr. Output:

Elements: Choice of 6. Copper/aluminum

Finish: Nu-White baked enamel or galvanized.



page 20-21 350

HD SERIES

Heavy duty slope-top baseboard.

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

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.

MULTI/PAK® 80 SERIES

High output baseboard radiation.

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



HD

page 22-23

page 24-25

BASELINE 70 SERIES

High output baseboard radiation.

1-piece element covers.

Style:

Output:

Finish:

Flements:

Application:

Style: Low-profile baseboard Application:

Light commercial and high output residential hot water heating.

Output: 410 to 1100 Btu/hr.

Choice of 2 copper/aluminum. Elements: Nu-White baked enamel. Finish:

F&EM SERIES

F-Series: Louvered top.

EM Series: Expanded metal

Industrial hot water or steam.

F Series: 563 to 3497 Btu/hr.

EM Series: 581 to 4158 Btu/hr.

Choice of 6. Copper/aluminum

Galvanized or custom colors.



page 26-27



page 28-29

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. Output:

Elements: Choice of 12. Copper/aluminum

or steel.

or steel.



page 30-31

RHINO CAST

Cast-Iron Baseboard

Modern low profile. Style:

Application: Rugged, heavy-duty hot water

heating.

Output: 360 to 840 Btu/hr.

Finish: Gray prime. Enclosure accessories are zinc coated with gray prime finish.



ENGINEERING DATA

Ratings data Specifications



page 33-35

Slant/Fin commercial radiation web site www.slantfin.com/comfin/choose.html



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

Multi/Pak 90 Series

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

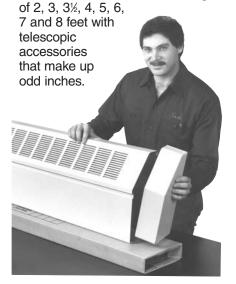
It's never been easier to select, purchase and install fin-tube radiation. And you've never encountered better quality. The unique 2-piece design of our Multi-Pak 90 Series allows us to pack these enclosures in a compact 2½" deep protective carton and to ship and warehouse it -- just like residential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

Easy to orderit's available when you need it.

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

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

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



Convenient to handle.

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



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

A finished job with a designer finish.

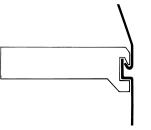
Multi/Pak 90 Series enclosures and accessories are prepainted in a Nu-White baked enamel at no extra cost. Your finished job harmonizes beautifully with any decor. Or, if painting is preferred, the Nu-White finish is an excellent prime base. Multi/Pak 90 may also be ordered with a custom color finish.

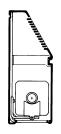


Multi/Pak 90 Series enclosures add exceptional beauty and distinction to any area: office suites, lobbies, show-rooms, restaurants, conference rooms, etc.

Cover panels

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

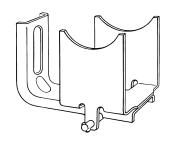






Element support

- Electro-galvanized bracket has fastening slot that allows 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."

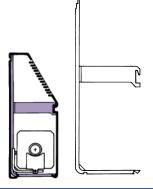
Multi/Pak 93 and 95 wall brackets

- 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.



Hanging Strip Provides additional rear support and seal

Multi/Pak 93 Multi/Pak 95

Tamper-proof lock

Locks front cover to lower arm of bracket

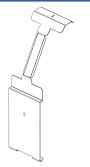


Wall Gasketing

For dustproof seal between top of cover and wall

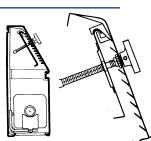
Internal Splice Plate

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

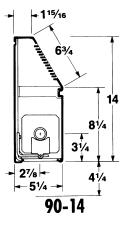
Knob operated damper (optional) is activated by precision lead screw and brass trunnion pitch block. Provides years of smooth operation. Damper for slope-top models is shown. Flat top models utilize a hinge type construction.

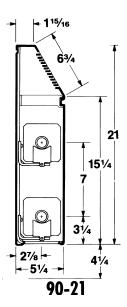






Aluminum grille optional.



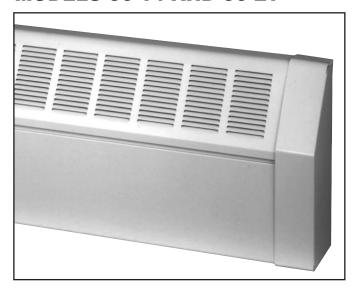


MULTI/PAK® 90

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: 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 hanger has guide rod to provide 1¹⁵/₁₆" lateral expansion movement, 1½" vertical pitch adjustment. Brackets and hangers provided with complete assembly as follows:

	90-	90		
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 but 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 but 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

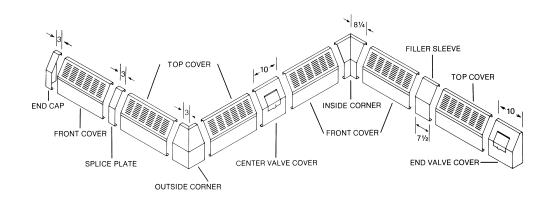


with or without dampers

				Fig. 01	E' B	Steam 1 PSI *	510/mi./11. (110W mate 6 11./666.)							
Cover Type	Enclosure Height	Element Type	Tube Size and Material	Fin Size and Material	Fins Per Foot	Btu/Hr. Per Foot	150° F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
		S-532	1¼" steel	4¼" steel	32	1380	621	731	842	952	1076	1187	1311	1449
		S-540	1¼" steel	4¼" steel	40	1550	698	822	946	1070	1209	1333	1473	1628
90-14	14"	S-832	2" steel	4¼" steel	32	1400	630	742	854	966	1092	1204	1330	1470
		C-340	¾" copper	4¼" alum.	40	1839	828	975	1122	1269	1435	1582	1748	1932
		C-440	1" copper	4¼" alum.	40	1950	878	1034	1190	1346	1521	1677	1853	2048
		C-540	11/4" copper	4¼" alum.	40	1910	860	1012	1165	1318	1490	1643	1815	2006
		S-532	1¼" steel	4¼" steel	32	1460	657	774	891	1007	1139	1256	1387	1533
		S-540	1¼" steel	4¼" steel	40	1680	756	890	1025	1159	1310	1445	1596	1764
90-21	21"	S-832	2" steel	4¼" steel	32	1520	684	806	927	1049	1186	1307	1444	1596
		C-340	¾" copper	4¼" alum.	40	2013	906	1067	1228	1389	1570	1731	1895	2114
		C-440	1" copper	4¼" alum.	40	2130	959	1129	1299	1470	1661	1832	2024	2237
		C-540	1¼" copper	4¼" alum.	40	2090	941	1108	1275	1442	1630	1797	1986	2195
		S-532	1¼" steel	4¼" steel	32	2190	986	1161	1336	1511	1708	1883	2081	2300
90-21	0.411	S-540	1¼" steel	4¼" steel	40	2380	1071	1261	1452	1642	1856	2047	2261	2499
Two-tier	21"	S-832	2" steel	4¼" steel	32	2270	1022	1203	1385	1566	1771	1952	2157	2384
element		C-340	¾" copper	4¼" alum.	40	2822	1270	1496	1721	1947	2200	2427	2681	2963
		C-440	1" copper	4¼" alum.	40	2990	1346	1585	1824	2063	2332	2571	2841	3140
		C-540	11/4" copper	4¼" alum.	40	2930	1319	1553	1787	2022	2285	2520	2784	3077
			1	I		ı								ı

 $^*\text{Based}$ on 65°F entering air temperature. For ratings at lower water temperatures, refer to conversion table on page 33

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.5 for details

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

telescopic accessories



End Cap End Cap-slotted (not shown)



Splice plate



Filler sleeve



Center valve cover



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)

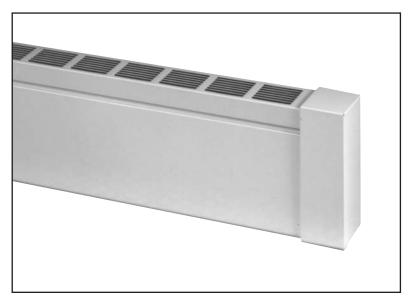
Access doors: 6" x 6"



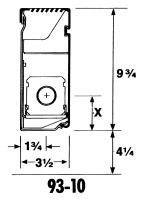
MULTI/PAK® 93 FLAT-TOP, TWO-PIECE ENCLOSURE

Pre-painted. Factory packaged.

MODELS 93-10 AND 93-17



ELEMENT X H1 33/16 H3 2¹3/16 H4 2¹3/16 H5X 33/16 H6X 33/16 E-75 2½/8



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:

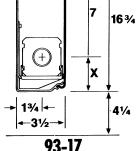
	93-	10	93-17					
Length	Brackets	Hangers	Brackets	Hangers				
2-5 ft.	2	2	2	4				
6-8 ft.	3	3	3	6				

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.





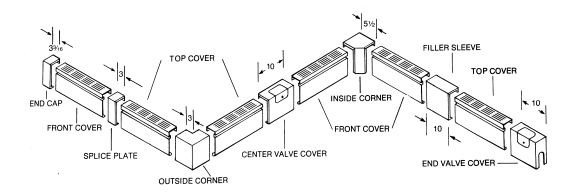
with or without dampers

			Rows of			Steam Fins 1 PSI*			I RIII/HR /FI (Flow Rate 3 Ft /Sec)							
Cover Type	Enclosure Height	Element Type	Heating Elements	Tube Size and Material	Fin Size and Material	Per Foot	Btu/Hr. Per Foot	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	486	572	658	745	848	928	1025	1133	
		H-3	1	3/" copper	2¾" x 2½" x .011" aluminum	55	991	446	525	605	684	773	852	941	1041	
93-10	9%"	H-4	1	1" copper	3" x 21/2" x .011" aluminum	48	965	434	511	589	666	753	830	917	1013	
		H-5X	1	11/4" copper	3" x 31/4" x .020" aluminum	48	1030	464	546	628	711	803	886	979	1082	
		H-6X	1	11/4" IPS Steel	3" x 31/4" x .028" aluminized steel	48	883	397	468	539	609	689	759	839	927	
		E-75	1	%" copper	25/16" x 21/8" aluminum	55	828	373	439	505	571	646	712	787	869	
		H-1	1	3/4" copper	3" x 31/4" x .024" aluminum	48	1182	532	626	721	816	922	1017	1123	1241	
		H-3	1	¾" copper	2¾" x 2½" x .011" aluminum	55	1086	489	576	662	749	847	934	1032	1140	
93-17	16¾"	H-4	1	1" copper	3" x 21/2" x .011" aluminum	48	1057	476	560	645	729	824	909	1004	1110	
		H-5X	1	11/4" copper	3" x 3¼" x .020" aluminum	48	1128	508	598	688	778	880	970	1072	1184	
		H-6X	1	11/4" IPS Steel	3" x 31/4" x .028" aluminized steel	48	947	426	502	578	653	739	814	900	994	
		E-75	1	%" copper	25/16" x 21/8" aluminum	55	907	408	481	553	626	707	780	862	952	
		H-1	2	¾" copper	3" x 31/4" x .024" aluminum	48	1679	756	890	1024	1159	1310	1444	1595	1763	
		H-3	2	34" copper	2¾" x 2½" x .011" aluminum	55	1543	694	818	941	1065	1204	1327	1466	1620	
93-17	16¾"	H-4	2	1" copper	3" x 21/2" x .011" aluminum	48	1501	675	796	916	1036	1171	1291	1426	1576	
Two-tier		H-5X	2	11/4" copper	3" x 31/4" x .020" aluminum	48	1602	721	849	977	1105	1250	1378	1522	1682	
element		H-6X	2	11/4"IPS Steel	3" x 31/4" x .028" aluminized steel	48	1435	646	761	875	990	1119	1234	1363	1507	
O.O.IIIOIII		E-75	2	¾" copper	25% x 2% aluminum	55	1288	580	683	786	889	1005	1108	1224	1352	

For ratings at lower water temperatures, refer to conversion table on page 33.

*Based on 65°F entering air temperature.

ACCESSORIES



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

non-telescopic accessories

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

Tamper-proof lock Wall gasketing*

*See p.5 for details

telescopic accessories



End Cap End Cap-slotted (not shown)



Splice plate



Filler sleeve



Center valve cover



Inside corner, 90°



Outside corner, 90°



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

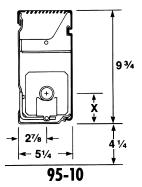
Access doors: 6" x 6"

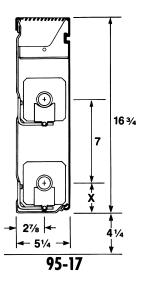




Aluminum grille optional.

ELEMENT	Х
C-340	3
C-440	31/8
C-540	31/4
S-532	33/8
S-540	33/8

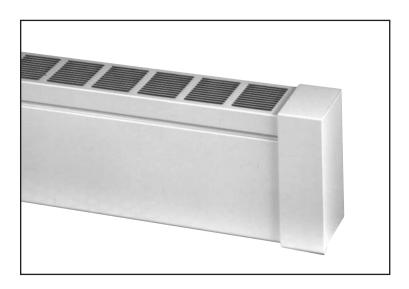




MULTIPAK® 95 FLAT-TOP, TWO-PIECE ENCLOSURE

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 115/16" lateral expansion movement, 11/16" 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

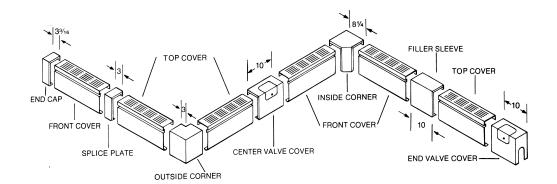


with or without dampers

0	Frelegine	Element	Tuka Oisa	Ein Cizo	Fine Day	Steam 1 PSI *	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)							
Cover Type	Enclosure Height	Element Type	Tube Size and Material	Fin Size and Material	Fins Per Foot	Btu/Hr. Per Foot	150° F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
	_	S-532	11/4" steel	4¼" steel	32	1254	564	665	765	865	978	1078	1191	1317
		S-540	1¼" steel	4¼" steel	40	1470	662	779	897	1014	1147	1264	1397	1544
95-10	9¾"	C-340	¾" copper	4¼" alum.	40	1680	756	891	1025	1159	1311	1445	1597	1764
		C-440	1" copper	4¼" alum.	40	1780	801	943	1086	1228	1388	1531	1691	1869
		C-540	11/4" copper	4¼" alum.	40	1745	785	925	1064	1204	1361	1501	1658	1832
		S-532	1¼" steel	4¼" steel	32	1351	608	716	824	932	1054	1162	1283	1419
		S-540	1¼" steel	4¼" steel	40	1577	710	836	962	1088	1230	1356	1498	1656
95-17	16¾"	C-340	34" copper	4¼" alum.	40	1840	828	976	1123	1270	1436	1582	1748	1933
		C-440	1" copper	4¼" alum.	40	1950	878	1034	1190	1346	1521	1677	1853	2048
		C-540	11/4" copper	4¼" alum.	40	1911	860	1013	1166	1319	1491	1643	1815	2007
		S-532	1¼" steel	4¼" steel	32	2153	969	1141	1313	1486	1679	1852	2045	2261
95-17		S-540	11/4" steel	4¼" steel	40	2390	1076	1267	1458	1649	1864	2055	2271	2510
Two-tier	16¾"	C-340	¾" copper	4¼" alum.	40	2615	1177	1386	1595	1804	2040	2249	2484	2746
element		C-440	1" copper	4¼" alum.	40	2770	1247	1468	1690	1911	2161	2382	2632	2909
		C-540	1¼" copper	4¼" alum.	40	2715	1222	1439	1656	1873	2118	2335	2579	2851

For ratings at lower water temperatures, refer to conversion table on page 33. *Based on 65°F entering air temperature.

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*

Tamper-proof lock* Wall gasketing*

*See p.5 for details

telescopic accessories



End Cap End Cap-slotted (not shown)



Splice plate



Filler sleeve







Outside corner, 90°



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

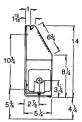




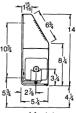
*Details for optional J-Series damper shown on model JAD-28



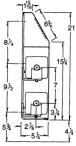
JL-10



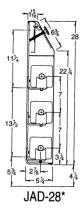
.IR-14



JA-14



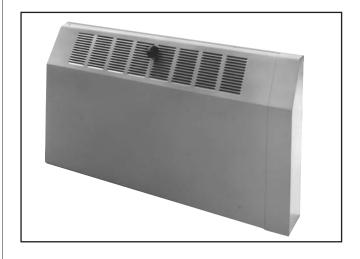
ΙΔ-21



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 full or 4 inch back panel. Allows for 3/4" recess into wall and protects wall covering in case removing of enclosure is necessary. Electro-galvanized finish is standard. Optional baked enamel finish available.

Built for easy installation, long life

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

- Pencil-proof louvers minimize "see through".
- Heavy duty 14-gauge wall bracket is drawn die formed.
 Secures cover in place with rigid spring lock action.
 Snap-in center brace supports middle of cover.
- Bracket mounting slots provide 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

Cover	Enclosure	Element	Tube Size	Fin Size	Fins Per	Steam 1 PSI * Btu/Hr.	* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)							
Туре	Height	Туре	and Material	and Material	Foot	Per Foot	150° F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
JL-10 JR-10	9%"	S-532 S-540 S-832 C-340 C-440 C-540	11/4" steel 11/4" steel 2" steel 3/4" copper 1" copper 11/4" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	1330 1430 1350 1753 1860 1820	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	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	1380 1550 1400 1839 1950 1910	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	21"	S-532 S-540 S-832 C-340 C-440 C-540	11/4" steel 11/4" steel 2" steel 3/4" copper 1" copper 11/4" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	1460 1680 1520 2013 2130 2090	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 ½" copper 1" copper 1½" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	2190 2380 2270 2822 2990 2930	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	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	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	1480 1710 1550 2051 2170 2130	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	11/4" steel 11/4" steel 2" steel 3/4" copper 1" copper 11/4" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	2290 2510 2430 2937 3110 3050	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	11/4" steel 11/4" steel 2" steel 3/4" copper 1" copper 11/4" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	2830 2930 2880 3467 3670 3600	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

For ratings at lower water temperatures, refer to conversion table on page 33. *Based on 65°F entering air temperature.

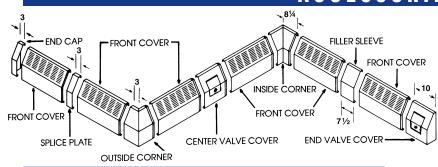
A complete range of accessories lets you "fit" J-series in virtually any space configuration - fast and easily. Cover

accessories are all telescopic. They snap in place without

screws or other fasteners. All accessories have gray prime

non-telescopic accessories

finish. Custom color available on special order.



telescopic accessories



End Cap End Cap-slotted (not shown)



Splice plate



Filler sleeve



Center valve cover



Column cover set

Hanging strip*

*See p.5 for details

Damper (electro galvanized)*

Inside corner, 90°



Outside corner, 90°



Tamper-proof lock

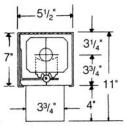
Wall gasketing*

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

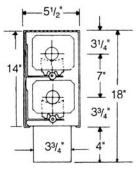


Aluminum grille optional.

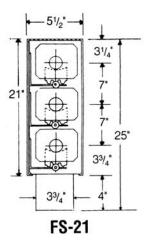
Custom Heights & Configurations Available



FS-7



FS-14



FS SERIES

FREE STANDING ENCLOSURE

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



ORDERING DATA

CONSTRUCTION: Single piece cover mounts on floor pedestals.

DEPTH: 51/2"

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

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

LENGTHS: 2', 3', 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.

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

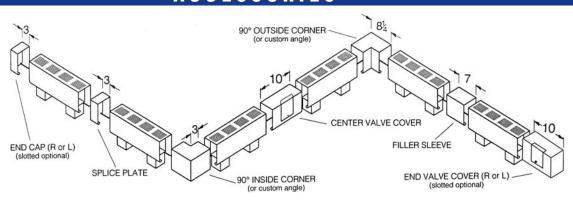
OPTIONS

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

Cover	Enclosure	Element	Tube Size	Fin Size	Fins Per	Steam 1 PSI *	BTU/HR./FT. (Flow Rate 3 Ft./Sec.)							
Type	Height	Туре	and Material	and Material	Foot	Btu/Hr. Per Foot	150° F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
		S-532	1½" steel	44" steel	32	1290	581	684	787	890	1006	1109	1226	1355
		S-540	11/4" steel	4¼" steel	40	1390	626	737	848	959	1084	1195	1321	1460
FS-7	7"	C-340	¾" copper	4¼" alum.	40	1579	711	837	963	1090	1232	1358	1500	1658
		C-440	1" copper	4¼" alum.	40	1670	752	885	1019	1152	1303	1436	1587	1754
		C-540	1¼" copper	4¼" alum.	40	1640	738	869	1000	1132	1279	1410	1558	1722
		S-532	1¼" steel	4¼" steel	32	1330	599	705	811	918	1037	1144	1264	1397
		S-540	1¼" steel	4¼" steel	40	1540	693	816	939	1063	1201	1324	1463	1617
FS-14	14"	C-340	¾" copper	4¼" alum.	40	1782	802	945	1087	1230	1390	1532	1693	1871
		C-440	1" copper	4¼" alum.	40	1890	851	1002	1153	1304	1474	1625	1796	1985
		C-540	1¼" copper	4¼" alum.	40	1850	833	981	1129	1277	1443	1591	1758	1943
		S-532	1¼" steel	4¼" steel	32	1850	833	981	1129	1277	1443	1591	1758	1943
FS-14		S-540	1¼" steel	4¼" steel	40	1955	880	1036	1193	1349	1525	1681	1857	2053
Two-tier	14"	C-340	¾" copper	4¼" alum.	40	2311	1040	1225	1410	1595	1803	1988	2196	2427
element/		C-440	1" copper	4¼" alum.	40	2450	1103	1299	1495	1690	1911	2107	2328	2573
		C-540	1¼" copper	4¼" alum.	40	2400	1080	1272	1464	1656	1872	2064	2280	2520
		S-532	1¼" steel	4¼" steel	32	1610	725	853	982	1111	1256	1385	1530	1691
		S-540	1¼" steel	4¼" steel	40	1675	754	888	1022	1156	1307	1441	1591	1759
FS-21	21"	C-340	¾" copper	4¼" alum.	40	2008	903	1064	1225	1386	1566	1727	1908	2108
		C-440	1" copper	4¼" alum.	40	2130	959	1129	1299	1470	1661	1832	2024	2237
		C-540	1¼" copper	4¼" alum.	40	2085	938	1105	1272	1439	1626	1793	1981	2189
		S-532	1¼" steel	4¼" steel	32	2140	963	1134	1305	1477	1669	1840	2033	2247
FS-21		S-540	1¼" steel	4¼" steel	40	2245	1010	1190	1369	1549	1751	1931	2133	2357
Two-tier	21"	C-340	¾" copper	4¼" alum.	40	2648	1192	1404	1616	1827	2066	2277	2507	2781
element/		C-440	1" copper	4¼" alum.	40	2810	1265	1489	1714	1939	2192	2417	2670	2951
		C-540	1¼" copper	4¼" alum.	40	2750	1238	1458	1678	1897	2145	2365	2613	2888
50.04		S-532	1¼" steel	4¼" steel	32	2380	1071	1261	1452	1642	1856	2047	2261	2499
FS-21		S-540	1¼" steel	4¼" steel	40	2540	1143	1346	1549	1753	1981	2184	2413	2667
Three-tier	21"	C-340	¾" copper	4¼" alum.	40	3005	1352	1593	1833	2073	2344	2584	2854	3155
element/		C-440	1" copper	4¼" alum.	40	3180	1431	1685	1940	2194	2480	2735	3021	3339
		C-540	11/4" copper	4¼" alum.	40	3120	1404	1654	1903	2153	2434	2683	2964	3276
	l		I	l	l			I	l	l	I	I	I	l

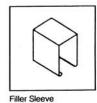
For ratings at lower water temperatures, refer to conversion table on page 33. *Based on 65°F entering air temperature.

ACCESSORIES

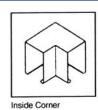


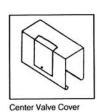
telescopic accessories















Splice Plate

End Valve Cover Access doors: 6" x 6"

Outside Corner

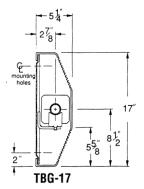


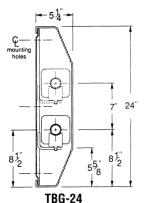
TBG SERIES

SLOPE-TOP/BOTTOM ENCLOSURES



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.

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

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

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

14-gauge cover.

Access door, field installed.

Architectural aluminum grille.

Damper, field installed

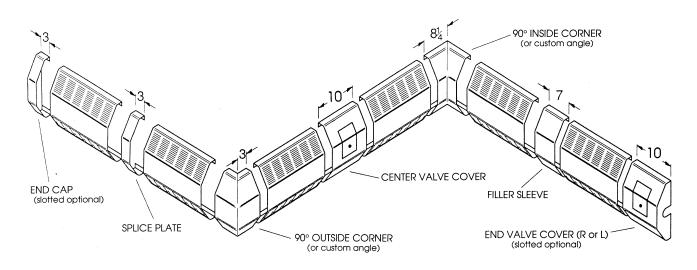
(not available with aluminum grille)

Custom color.

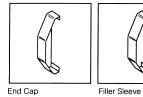
0	Factoring	Flormont	Tube Size	Ein Sizo	Fine Dev	Steam 1 PSI *	BIU/HK./FI. (FIUW MAIE 3 FI./Sec.)							
Cover Type	Enclosure Height	Element Type	and Material	Fin Size and Material	Fins Per Foot	Btu/Hr. Per Foot	150° F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
		S-532	1¼" steel	4¼" steel	32	1250	563	663	763	862	975	1075	1188	1313
		S-540	1¼" steel	4¼" steel	40	1344	605	712	820	927	1048	1156	1277	1411
		S-832	2" steel	4¼" steel	32	1201	540	637	733	829	937	1033	1141	1261
TBG-17	17"	C-340	¾" copper	4¼" alum.	40	1595	717	846	973	1101	1244	1371	1515	1675
		C-440	1" copper	4¼" alum.	40	1690	761	896	1031	1166	1318	1453	1606	1775
		C-540	1¼" copper	4¼" alum.	40	1656	745	878	1010	1143	1292	1424	1573	1739
		S-532	1¼" steel	4¼" steel	32	1460	657	774	891	1007	1139	1256	1387	1533
		S-540	1¼" steel	4¼" steel	40	1505	677	798	918	1038	1174	1294	1430	1580
		S-832	2" steel	4¼" steel	32	1345	605	713	820	928	1049	1157	1278	1412
TBG-24	24"	C-340	¾" copper	4¼" alum.	40	1749	810	953	1097	1241	1403	1547	1709	1888
		C-440	1" copper	4¼" alum.	40	1910	860	1012	1165	1318	1490	1643	1815	2006
		C-540	1¼" copper	4¼" alum.	40	1868	841	990	1139	1289	1457	1606	1775	1961
		S-532	1¼" steel	41/4" steel	32	1980	891	1049	1208	1366	1544	1703	1881	2079
		S-540	1¼" steel	4¼" steel	40	2102	946	1114	1282	1450	1640	1808	1997	2207
TBG-24		S-832	2" steel	4¼" steel	32	1890	851	1002	1153	1304	1474	1625	1796	1985
Two-tier	24"	C-340	¾" copper	4¼" alum.	40	2337	1052	1238	1425	1613	1823	2010	2221	2454
element		C-440	1" copper	4¼" alum.	40	2480	1116	1314	1513	1711	1934	2133	2356	2604
		C-540	1¼" copper	4¼" alum.	40	2427	1092	1286	1480	1675	1893	2087	2306	2548

For ratings at lower water temperatures, refer to conversion table on page 33. *Based on 65°F entering air temperature.

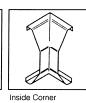
ACCESSORIES

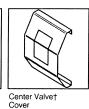


TELESCOPIC ACCESSORIES

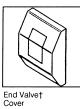














Slotted End Cap

† Access doors: 6" x 6"



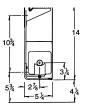
Aluminum grille optional.



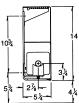
*Details for optional R-Series Damper shown on model RTD-28



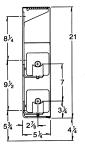
RL-10



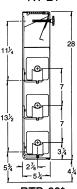
RR-14



RT-14



RT-21



R SERIES

FLAT-TOP ENCLOSURE

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



ORDERING DATA

CONSTRUCTION: Single piece cover mounts on wall brackets.

DEPTH: 51/4"

HEIGHTS: 97/8", 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.

		Recommended number of brackets and hangers for given length.									
Element	2	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.	_									

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.

RR-10, RR-14, RR-21 and RR-28 are special order models and require a full or 4 inch back panel. Allows for ½" recess into wall and protects wall covering in case removing of enclosure is necessary. Galvanized finish is standard. Optional baked enamel finish available.

OPTIONS

Louver locations

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

Model RF: Louvered front

Model RB: Louvered top and front

OTHER OPTIONS

Damper, field installed

(not available with aluminum grille)

Back panel.

16 and 14-gauge cover.

Access door, field installed.

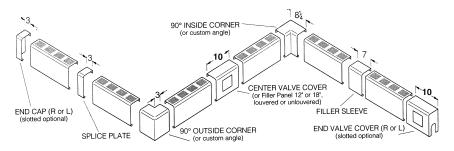
Inlet grille.

Architectural aluminum grille.

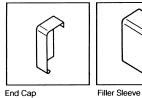
Custom color.

		<u></u>				Steam 1 PSI *	* BIU/HK./FI. (Flow Rate 3 Ft./Sec.)							
Cover Type	Enclosure Height	Element Type	Tube Size and Material	Fin Size and Material	Fins Per Foot	Btu/Hr. Per Foot	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	1¼" steel 1¼" steel 2" steel ¾" copper 1" copper	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum.	32 40 32 40 40	1230 1330 1270 1647 1740	554 599 572 742 783	652 705 673 872 922	750 811 755 1004 1061	849 918 876 1136 1201	959 1037 991 1285 1357	1058 1144 1092 1417 1496	1169 1264 1207 1565 1653	1292 1397 1334 1730 1827
RT-14 RR-14	14"	C-540 S-532 S-540 S-832 C-340 C-440 C-540	1½" copper 1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4¼" steel 4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum.	40 32 40 32 40 40 40	1710 1280 1500 1320 1714 1820 1780	770 576 675 594 771 819 801	906 678 795 700 908 965 943	781 915 805 1046 1110 1086	1180 883 1035 911 1183 1256 1228	998 1170 1030 1337 1420 1388	1471 1101 1290 1135 1474 1565 1531	1625 1216 1425 1254 1628 1729 1691	1796 1344 1575 1386 1800 1911 1869
RT-21 RR-21	21"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4½" steel 4½" steel 4½" steel 4½" alum. 4½" alum. 4½" alum.	32 40 32 40 40 40	1380 1610 1460 1878 1990 1950	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	1449 1691 1533 1972 2090 2048
RT-21 RR-21 Two-tier element	21"	S-532 S-540 S-832 C-340 C-440 C-540	11/4" steel 11/4" steel 2" steel 3/4" copper 1" copper 11/4" 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	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	2090 2318 2119 2535 2689 2632	2310 2562 2342 2801 2972 2909
RT-28 RR-28	28"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	1400 1680 1480 1907 2020 1980	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	1470 1764 1554 2002 2121 2079
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	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	1944 2116 1952 2460 2606 2554	2147 2337 2157 2718 2879 2822	2373 2583 2384 3004 3182 3119
RT-28 RR-28 Three-tie element	r 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	2580 2800 2660 3390 3590 3520	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	2451 2660 2527 3220 3411 3344	2709 2940 2793 3559 3770 3696

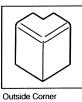
For ratings at lower water temperatures, refer to conversion table on page 33. *Based on 65°F entering air temperature.

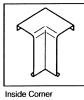


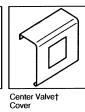
telescopic accessories

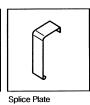


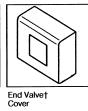














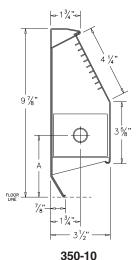
Slotted End Cap

Slant/Fin.



13%" 13%" 75%" 13%" 13%" 3½" 3½" 3½"

350-14

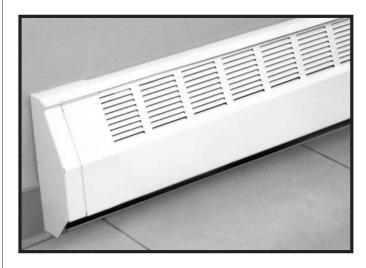


Model	Element	"A"
351	H-1	3 15/16"
353	H-3	3 %"
354	H-4	3 %"
355	H-5x	3 15/16"
356	H-6x	3 15/16"

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 1¼" all-steel element, 350 Series is perfect for use in one or two pipe steam systems. 350 Series is factory assembled and shipped in individual cartons for rapid installations.

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

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

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

ORDERING DATA

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

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

DEPTH: 3½"

HEIGHT: 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.

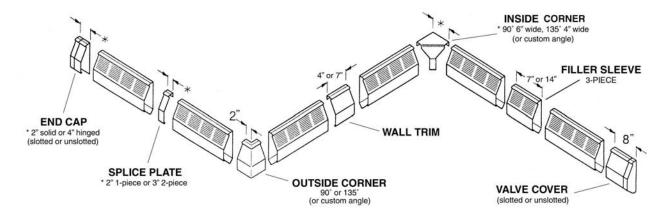
		Rows of			Fins			Steam 1 PSI	HOT WATER RATINGS* BTU/HR./FT.								
Model Number	Element Type	Heating Element	Tube Size and Material	Fin Size and Material	Per Foot	Water Flow	Pressure Drop †	Btu/Hr. Per Foot	150° F	160°F	170°F	180°F	190°F	200°F	210°F	220°F	
Single-tie	er, 9%" M	odels															
351-10	H-1	1	3/4" copper	3" x 3¼" x .024 aluminum	48	1 GPM 4 GPM	47 525	_	570 600	670 700	770 810	870 920	980 1040	1080 1140	1200 1260	1320 1400	
353-10	H-3	1	3/4" copper	2¾" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525	_	520 550	610 650	710 750	800 850	900 960	1000 1060	1100 1170	1220 1290	
354-10	H-4	1	1" copper	3" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145		520 550	610 650	710 750	800 850	900 960	1000 1060	1100 1170	1220 1290	
355-10	H-5X	1	1-1/4" copper	3" x 3¼" x .020" aluminum	48	1 GPM 4 GPM	6 63	1160	540 570	640 670	730 780	830 880	940 990	1040 1100	1140 1210	1260 1340	
356-10	H-6X	1	1-1/4" IPS steel	3" x 31/4" x .028 aluminized steel	48	1 GPM 4 GPM	3 41	980	460 490	550 580	630 670	710 750	810 850	890 940	980 1040	1080 1150	
Two-tier,	13%" Mo	dels															
351-14	H-1	2	3/4" copper	3" x 31/4" x .024 aluminum	48	1 GPM 4 GPM	47 525	_	880 970	1040 1150	1290 1420	1440 1590	1590 1750	1740 1920	1890 2080	2030 2250	
353-14	H-3	2	3/4" copper	2¾" x 2½" x .011"" aluminum	55	1 GPM 4 GPM	47 525	_	830 910	980 1080	1210 1340	1350 1490	1490 1650	1630 1800	1770 1960	1910 2110	
354-14	H-4	2	1" copper	3" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145	_	830 910	980 1080	1210 1340	1350 1490	1490 1650	1630 1800	1770 1960	1910 2110	
355-14	H-5x	2	1-1/2" copper	3" x 3¼" x .020" aluminum	48	1 GPM 4 GPM	6 63	2160	850 940	1000 1100	1240 1370	1390 1530	1530 1690	1670 1850	1820 2010	1960 2160	
356-14	H-6x	2	1-1/4" IPS steel	3" x 31/4" x .028 aluminized steel	48	1 GPM 4 GPM	3 41	1870	730 810	860 950	1070 1190	1200 1320	1320 1460	1450 1600	1570 1730	1690 1870	

^{*} 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 ratings only when flow is known to be equal to or greater than 4 GPM; otherwise 1 GPM ratings must be used.

ACCESSORIES



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

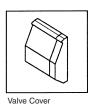
telescopic accessories













Splice Plate



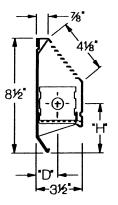


Wall Trim 4" Hinged End Cap slotted or unslotted

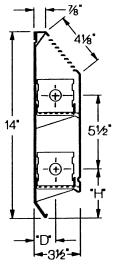
Filler Sleeve



Custom Heights & Configurations Available



HD-850



HD-1400

Element	"H"	"D"
H-1	41/16"	1¾"
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).

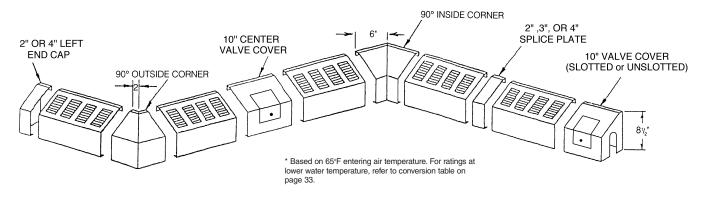
		Rows of	Tube		Fins	Steam						GS*				
Model Number	Element Type	Heating Element	Size and Material	Fin Size and Material	per Foot	Water Flow	Pressure Drop†	Btu/Hr. Per Foot	150° F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
Single-tie	r, 8½" Mo	dels														
HD-850	H-1	1	¾" copper	3" x 3¼" x .024" aluminum	48	1 GPM 4 GPM	47 525	_	470 500	550 580	640 680	720 760	800 850	890 940	970 1030	1050 1110
HD-850	H-3	1	¾" copper	2¾" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525	-	420 440	490 520	570 600	640 680	720 760	790 840	870 920	940 990
HD-850	H-4	1	1" copper	3" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145	_	410 430	460 500	560 590	630 670	710 750	780 830	860 1000	1030 980
HD-850	H-5X	1	1½" copper	3" x 3¼" x .020" aluminum	48	1 GPM 4 GPM	6 63	1160	430 460	550 560	600 640	680 710	770 810	860 880	920 980	1010 1070
HD-850	H-6X	1	1¼" IPS steel	3" x 31/4" x .028" aluminized steel	48	1 GPM 4 GPM	3 41	980	360 370	440 450	510 540	570 600	640 680	710 750	780 830	850 900
Two-tier,	14" Mode	ls												•		
HD-1400	H-1	2	¾" copper	3" x 3½" x .024" aluminum	48	1 GPM 4 GPM	47 525	_	690 730	820 870	940 990	1070 1130	1190 1260	1320 1400	1450 1530	1570 1660
HD-1400	H-3	2	¾" copper	2¾" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525	-	650 690	770 810	880 930	1000 1060	1110 1170	1230 1300	1340 1420	1460 1540
HD-1400	H-4	2	1" copper	3" x 2½" x .011" aluminum	48	1 GPM 4 GPM	13 145	1	640 680	740 790	870 920	990 1050	1100 1160	1220 1290	1330 1400	1440 1480
HD-1400	H-5X	2	1½" copper	3" x 3¼" x .020" aluminum	48	1 GPM 4 GPM	6 63	1630	650 690	820 850	900 950	1030 1080	1160 1220	1290 1340	1400 1480	1530 1620
HD-1400	H-6X	2	1¼" IPS steel	3" x 3¼" x .028" aluminized steel	48	1 GPM 4 GPM	3 41	1440	580 600	710 740	810 850	920 970	1030 1090	1140 1210	1260 1330	1370 1450

^{*} 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 rating only when flow is known to be equal to or greater than 4 GPM; otherwise 1 GPM ratings must be used.

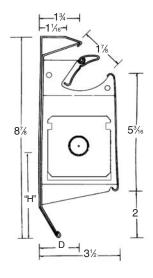
ACCESSORIES



Access doors: 6" x 6"

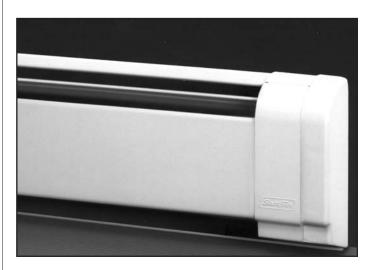
[†] Millinches per foot.





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



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.

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

INTERCHANGEABLE HEATING ELEMENTS:

Available with a choice of five heating elements, Multi/Pak 80 meets a wide variety of heating requirements. With the optional *high-output* 3/4" copper/aluminum element, it is the perfect alternative to costly, bulky commercial enclosures in "problem areas" of high heat loss. Optional 1" and 1½" copper/aluminum elements permit higher flow rates, longer series-loop runs and lower pump loads. The 1½" elements are suitable for use in one or two pipe steam systems.

ORDERING DATA

PACKAGING: Complete assembly - Model 83A2: 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 steel front cover. 21-gauge back cover. 16-gauge brackets.

FINISH: Nu-White baked enamel.

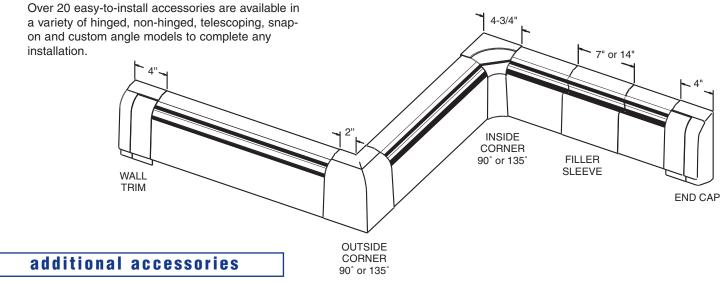
ELEMENT SUPPORT: Self-adjusting, polypropylene expansion cradles are positioned over support brackets, allowing quiet expansion.

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.

Model	Element	Tube Size and	Fin Size	Fins per	Water	Pressure	Steam 1PSI* Btu/Hr.	HOT WATER RATINGS* BTU/HR./FT.					I	, I	I-B ₋ R
Number	Туре	Material	and Material	Foot	Flow	Drop†	Per Foot	150° F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
81 A	H-1	³ / ₄ " copper	3 x 3¼" x .024" aluminum	48	1 GPM 4 GPM	47 525	-	520 550	610 640	700 740	790 840	880 930	970 1030	1060 1120	1140 1200
83-A2	H-3	¾" copper	2¾" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525	ı	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	-	480 510	560 610	640 680	720 760	800 850	880 930	960 1010	1040 1100
85-AX	H-5X	1½" copper	3" x 3¼" x .020" aluminum	48	1 GPM 4 GPM	6 63	1130	470 500	560 590	650 690	740 780	830 890	920 970	1010 1070	1100 1160
86-AX	H-6X	1¼" IPS steel	3" x 3¼" x .028" aluminized steel	48	1 GPM 4 GPM	3 41	990	410 430	490 520	560 590	640 680	710 750	790 840	860 910	940 990

For ratings at lower water temperatures, refer to conversion table on page 33.* Based on 65°F entering air temperature. † Millinches per foot.

ACCESSORIES



Valve cover, 8"
Valve cover, slotted*, 8"
Inside corner*, custom angle
Outside corner*, custom angle

Center valve cover*, 8"
Zone valve box
Back panel for inside corner
Column cover set

TELESCOPIC ACCESSORIES



Filler Sleeve



Hinged End Cap



Hinged Wall Trim



Hinged Valve Cover



Hinged Inside Corner



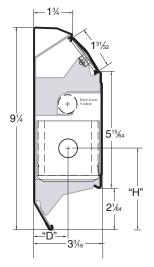
Outside Corner

^{*}Telescopic accessories



BASE/LINE 70 HIGH-OUTPUT BASEBOARD





Element	"H"	"D"
H-3	323/32"	11/2"
F-75F	317/22"	1%,"

New high-output Base/Line 70 baseboard combines renowned Slant/Fin quality and performance with an economical price. Its heavy duty construction makes it ideal for highly competitive multi-family housing, light commercial and high-output residential heating applications. Base/Line 70 is made with features not found in ordinary baseboard. There's more integrity and durability.

- 91/4" height
- 25% higher output than standard baseboard
- Choice of 2 heating elements
- Heavy duty construction
- 18-gauge front cover
- · Massive, full-support bracket
- Pivot-mounted, fully modulating damper

CONTRACTOR-FRIENDLY FEATURES SPEED

INSTALLATION: Base/Line 70 baseboard is factory assembled and packaged for quick carton-to-wall installation. Brackets slide laterally to align with wall studs, if desired. Return piping is quick and easy using standard 90° fittings. A full range of piano hinged and snap-on accessories give the installation a neat look. The Base/Line 70 bracket is more than twice the size and weight of brackets provided with some other baseboard brands. It offers exceptional floor to top panel support. The hefty 18-gauge front panel resists damage during and after installation. The exclusive pivot mount damper permits easy adjustment while holding any position from fully open to fully closed for room-by-room comfort control.

ORDERING DATA

PACKAGING: Complete assembly - Model 73-A. Factory assembled, packaged in individual cartons. Includes H-3 element, enclosure, brackets, plastic expansion cradles and damper. Model 70-E. Cover and E-75E element packaged and shipped separately.

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

DEPTH: 3³/₆" **HEIGHT**: 9¹/₄"

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

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

FINISH: Nu-White baked enamel.

ELEMENT SUPPORT: Self-adjusting, polypropylene expansion cradles are positioned over sup-

port brackets, allowing quiet expansion.

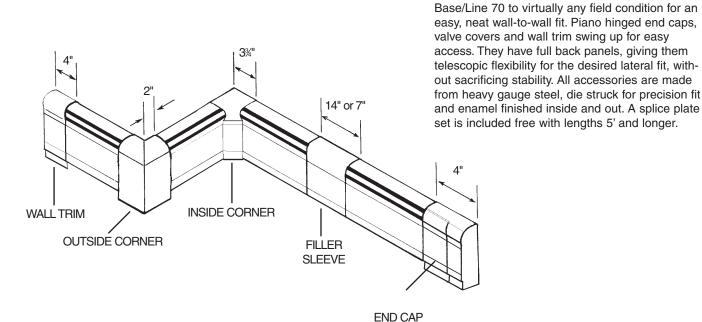
ELEMENTS: Choice of two. Copper with aluminum fins: H-3 or E-75E. See page 30.

		Tube		Fins			HOT WATER RATINGS BTUH/HR./FT.						I-B-R		
Model Number	Element Type	Size and Material [†]	Fin Size and Material	per Foot	Water Flow	Pressure Drop*	140° F‡	150° F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
73-A	H-3	3/4" copper	2¾" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525	400 430	480 510	560 590	640 680	720 760	800 850	880 930	960 1020	1040 1100
70-E	E-75E	¾" copper	2¾" x 2½" x .011" aluminum	55	1 GPM 4 GPM	47 525	330 340	390 410	460 490	540 570	610 640	680 720	750 790	830 880	900 950

^{*} Millinches per foot. † Nominal ‡ Ratings at 140°F determined by multiplying 150°F rating by the I=B=R conversion multiplier of .84.

NOTE: Ratings are for element installed with damper open, with expansion cradles and with 65°F entering air. Ratings are based on active finned length [5" to 6" less than overall length] and include 15% heating effect factor. Use 4gpm ratings only when flow is known to be equal to or greater than 4 gpm; otherwise, 1 gpm ratings must be used.

ACCESSORIES



telescopic accessories



Hinged End Cap



Non-Hinged End Car



Hinged Wall Trim



Filler Sleeve



2" Splice Plate



A selection of telescopic accessories let you fit

Non-Hinged Wall



Inside Corner

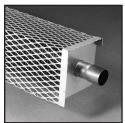


Outside Corner

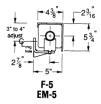


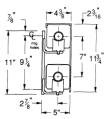
/alve Cove



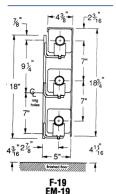








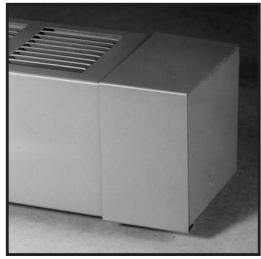
F-12 EM-12

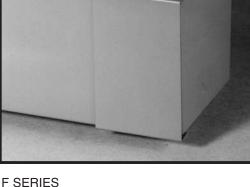


Element positions shown maximize output of enclosure. Single or double rows of elements may be placed in any of the two or three positions. Element position is adjustable vertically by 11/8" and horizontally by 15/16".

F & EM SERIES

LOUVERED AND EXPANDED METAL ELEMENT COVERS





EM SERIES

ORDERING DATA

CONSTRUCTION: Single piece cover attaches directly to element.

DEPTH: 43/8"

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

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

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

FINISH: Galvanized standard. Available in baked enamel.

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

ELEMENTS: Copper with aluminum fins: C-340, C-440, C-540. Steel with electro-galvanized steel fins: S-532, S-540, S-832. Lengths from 2 to 12 feet. See p. 26.

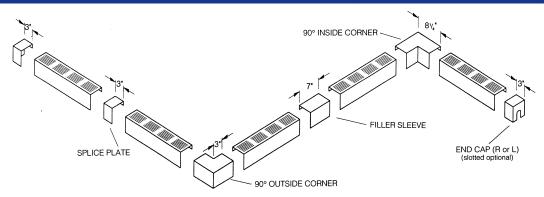
JOINTS: Telescopic accessories eliminate the need to perfectly butt one length of cover to the next. Critical linear and vertical tolerances are eliminated because telescopic assembly absorbs misalignment that might result from uneven floors and walls.

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

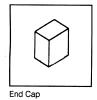
* Based on 65°F entering air temperature. For ratings at lower water temperature, refer to conversion table on page 33.

						Steam 1 PSI *	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)							
Model Number	Enclosure Height	Element Type	Tube Size and Material	Fin Size and Material	Fins Per Foot	Btu/Hr. Per Foot	150° F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
F-5	4¾"	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 1340 1280 1560 1650	563 603 576 702 743	663 710 678 827 875	763 817 781 951 1007	862 925 883 1077 1139	975 1045 998 1217 1287	1075 1152 1101 1341 1419	1188 1273 1216 1482 1568	1313 1407 1344 1638 1733
F-12 Two-tier element	11¾"	C-540 S-532 S-540 S-832 C-340 C-440 C-540	1½" copper 1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4¼" steel 4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	40 32 40 32 40 40 40	1620 2070 2160 2090 2600 2750 2700	729 932 972 941 1170 1238 1215	859 1097 1145 1108 1378 1458 1431	988 1263 1318 1275 1586 1678 1647	1118 1428 1490 1442 1794 1897 1863	1264 1615 1685 1630 2028 2145 2106	1393 1780 1858 1797 2236 2365 2322	1539 1967 2052 1986 2470 2613 2565	1701 2174 2268 2195 2730 2888 2835
F-19 Three-tier element	18¾"	S-532 S-540 S-832 C-340 C-440 C-540	1¼" steel 1¼" steel 2" steel ¾" copper 1" copper 1¼" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	2580 2690 2610 3139 3330 3260	1161 1211 1175 1413 1499 1467	1367 1426 1383 1664 1765 1728	1574 1641 1592 1915 2031 1989	1780 1856 1801 2166 2298 2249	2012 2098 2036 2449 2597 2543	2219 2313 2245 2700 2864 2804	2451 2556 2480 2982 3164 3097	2709 2825 2741 3296 3497 3423
EM-5	4¾"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	1290 1370 1310 1656 1750 1720	581 617 590 745 788 774	684 726 694 878 928 912	787 836 799 1010 1068 1049	890 945 904 1143 1208 1187	1006 1069 1022 1292 1365 1342	1109 1178 1127 1424 1505 1479	1226 1302 1245 1574 1663 1634	1355 1439 1376 1739 1838 1806
EM-12 Two-tier element	11¾"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	2270 2390 2290 2918 3090 3030	1022 1076 1031 1314 1391 1364	1203 1267 1214 1547 1638 1606	1385 1458 1397 1780 1885 1848	1566 1649 1580 2014 2132 2091	1771 1864 1786 2276 2410 2363	1952 2055 1969 2510 2657 2606	2157 2271 2176 2772 2936 2879	2384 2510 2405 3064 3245 3182
EM-19 Three-tier element	18¾"	S-532 S-540 S-832 C-340 C-440 C-540	1½" steel 1½" steel 2" steel ¾" copper 1" copper 1½" copper	4¼" steel 4¼" steel 4¼" steel 4¼" alum. 4¼" alum. 4¼" alum.	32 40 32 40 40 40	3060 3140 3080 3736 3960 3880	1377 1413 1386 1681 1782 1746	1622 1664 1632 1980 2099 2056	1867 1915 1879 2279 2416 2367	2111 2167 2125 2578 2732 2677	2387 2449 2402 2914 3089 3026	2632 2700 2649 3214 3406 3337	2907 2983 2926 3550 3762 3686	3213 3297 3234 3923 4158 4074

ACCESSORIES

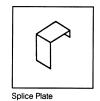


TELESCOPIC ACCESSORIES





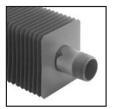








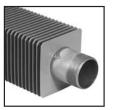
Inside Corner



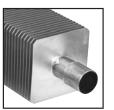
S-532



S-540



S-832



C-340



C-440



C-540

BARE ELEMENTS

STEEL ELEMENTS COPPER/ALUMINUM ELEMENTS



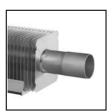
H-1



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.

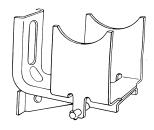
ORDERING DATA

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.

ELEMENT

	Fins No. of 1PSI				HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)									
Model Number	Tube Size and Material	Fin Size and Material	per Foot	Tiers 7" cl	Pressure Drop †	Btu/Hr. Per Foot	150° F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
S-532	1¼"IPS steel	4¼" x 4¼" x .024"	32	1		1340	603	710	817	925	1045	1152	1273	1407
		electro-gal. steel		2	420	2410	1085	1277	1470	1663	1880	2073	2290	2531
				3		3170	1427	1680	1934	2187	2473	2726	3012	3329
S-540	11/4"IPS steel	4¼" x 4¼" x .024"	40	1		1490	671	790	909	1028	1162	1281	1416	1565
		electro-gal. steel		2	420	2530	1139	1341	1543	1746	1973	2176	2404	2657
				3		3220	1449	1707	1964	2222	2512	2769	3059	3381
S-832	2"IPS steel	4¼" x 4¼" x .024"	32	1		1360	612	721	830	938	1061	1170	1292	1428
		electro-gal. steel		2	252	2420	1089	1283	1476	1670	1888	2081	2299	2541
				3		3190	1436	1691	1946	2201	2488	2743	3031	3350
C-340	¾"copper	4¼" x 4¼" x .020"	40	1		1724	776	914	1052	1189	1344	1482	1638	1810
		aluminum		2	708	3033	1366	1608	1851	2094	2366	2609	2882	3186
				3		3881	1747	2057	2367	2678	3027	3338	3687	4075
C-440	1" copper	4¼" x 4¼" x .020"	40	1		1830	824	970	1116	1263	1427	1574	1739	1922
		aluminum		2	504	3210	1445	1701	1958	2215	2504	2761	3050	3371
				3		4110	1850	2178	2507	2836	3206	3535	3905	4316
C-540	1¼" copper	4¼" x 4¼" x .020"	40	1		1790	806	949	1092	1235	1398	1539	1701	1880
		aluminum		2	396	3150	1418	1670	1922	2174	2457	2709	2993	3308
				3		4030	1814	2136	2458	2781	3143	3466	3829	4232
H-1	¾" copper	3" x 3¼" x .024"	48	1		—	505	595	685	775	876	966	1067	1179
		aluminum		2	708	_	717	844	972	1099	1243	1370	1513	1673
				3		_	1134	1336	1537	1739	1966	2167	2394	2646
H-5X	11/4" copper	3" x 3¼" x .020"	48	1		1085	488	575	662	749	846	933	1031	1139
		aluminum		2	396	1540	693	816	939	1063	1201	1324	1463	1617
				3		2435	1096	1291	1485	1680	1899	2094	2313	2557
H-6X	11/3" IPS steel	3" x 3½" x .028"	48	1		950	428	504	580	656	741	817	903	998
		aluminized steel		2	420	1440	648	763	878	994	1123	1238	1368	1512
				3		2050	923	1087	1251	1415	1599	1763	1948	2153

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

H-1 is not recommended for steam applications.

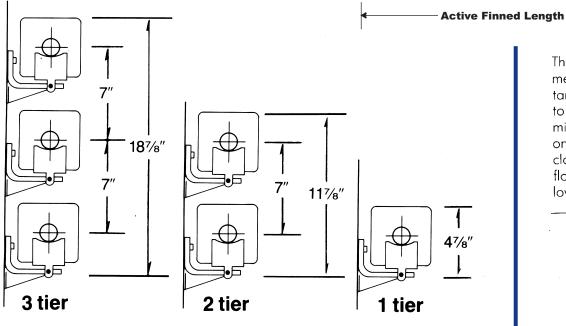
For ratings at lower water temperatures, refer to conversion table on page 33.

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

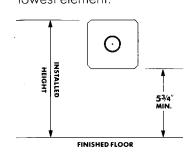
Active length of each element is as follows:

S and C series — 51/2" less than total length.

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



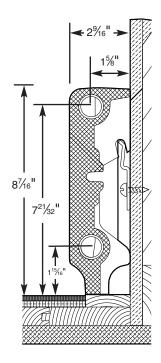
The installed height for elements is defined as the distance from the finished floor to the top of the fin. The minimum mounting height on all elements without enclosures is 53/4" from finished floor to bottom of fins of lowest element.



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



Optional air outlet grille adds a contemporary look.



RHINO-CAST **CAST-IRON BASEBOARD**



Slant/Fin has renewed the popularity of cast-iron baseboard with new Rhino-Cast. It is about an inch and a half shorter than old style cast-iron baseboard, yet its heat output compares with the higher, bulkier models. That means less weight for installers to handle and a lower, sleeker appearance. With it's unique hanging strip, Rhino-Cast may also be wall mounted at any height.

- Cast-iron tough -- nearly indestructible.
- Modern low profile. Just 8%" high.
- · Less weight. Easier to handle.
- · Wall hanging option for above-floor mounting.
- · Air outlet grille optional.

ORDERING

CONSTRUCTION: Individual panel configurations: stand alone with left and right legs, left end with left leg, right end with right leg and center panel with no legs. All panels for wall mounting have no legs. Individual panels are joined with metal push nipples. End panels are tapped for 3/4" pipe connection.

DEPTH: 2%16" **HEIGHT**: 87/16"

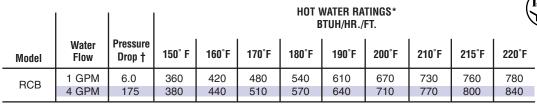
LENGTHS: Individual panels: 11/2 and 2'.

Complete assemblies and sub-assemblies from 3' to 6'. Field assemblies are available in lengths from 61/2 to 24'.

MATERIAL: Cast-iron.

FINISH: Gray prime. Enclosure accessories are zinc coated with a gray prime finish.

RATINGS



NOTE: Maximum allowable working pressure - 30psi *Ratings based on 65°F entering air.

ELESCOPIC ACCESSORIES



Outside Corner





available in 1 foot increments from 1 to 6 feet











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		

 $[\]dagger$ Also applies to equivalent saturated steam temperatures. Entering air temperature other than 65°F: multiply the catalog steam rating by the factors shown in Table 2.

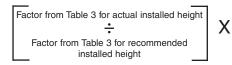
Water temperature other than 215°F: multiply the catalog steam rating by the factors shown in Table 2.

Steam Ratings

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

Recommended Installed Height

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



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

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

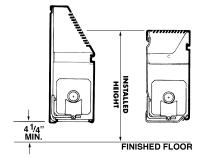
Given:

Installed height 36" $[1.00 \div 1.15] \times 1500 = 1304 \text{ Btu/Hr./Ft.}$ Recommended height 14"

Recommended height 14"
Water Temperature 200°F
Cover type 95-10
Element C-540

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

TABLE 3			
Height †	Factor	Height †	Factor
36" or more	1.00	25"	1.08
34"	1.01	24"	1.09
32"	1.02	23"	1.10
30"	1.03	22"	1.11
29"	1.04	21"	1.12
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 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 ATA

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-paint-ed 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 dis-

charge louvers. All enclosures shall have female-tofemale 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.

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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

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

Front cover shall be fabricated from 16-gauge steel, back panel from 20-gauge steel. The front panel & accessories shall be finished in 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 guide 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 %" self-tapping screws with countersunk heads to fasten front cover to brackets. Screws recess into dimpled anchoring holes on front cover. Screws are supplied in carton with cover.

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

Multi/Pak 80

Furnish and install Multi/Pak® 80 baseboard cover assembly as manufactured by Slant/Fin Corporation, consisting of one-piece 21-gauge back and top panel, and one-piece 18-gauge front panel, formed of cold rolled steel. Bottom and top edges of back panel shall be formed to provide channels along entire length, to receive full-height support brackets.

Brackets shall be die formed of zinc-bonded 16gauge quarter-hard cold rolled steel, for rigid bracing and spring locking. Slide-action expansion cradles, formed of polypropylene, shall be inserted between heating element and support bracket. Cradles shall protect element bottom and sides from contact with brackets or cover, confining element to free lateral expansion for noiseless operation. Room-control damper vane, of quarter-hard cold rolled steel, shall be provided for each length of enclosure, and shall modulate fully and freely, yet retain any setting through its arc without protruding knobs or other devices. Support bracket shall be formed to retain and support damper vane without use of additional pivots. All cover components shall be painted in Nu-White, oven baked melamine cross-linked polyester enamel.

Base/Line 70

Furnish and install Base/Line 70 baseboard cover assembly as manufactured by Slant/Fin Corp., consisting of back panel, front panel, damper vane and support brackets (electro-galvanized), 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. The support brackets shall be formed to accommodate return tubing above the heating element using standard fittings. Damper vane shall modulate fully and retain any setting through it's arc. All cover components shall be painted in Nu-White thermosetting 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 2½"x .011"aluminum fins bent to 2½"x 2½", 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 31½ 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 1%'' IPS steel pipe (Schedule 40), with $3'' \times 3\%'' \times .028''$ 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 0.09" aluminum fins, bent to 2%" x 2%", spaced 55 per linear foot. A flange with four teeth shall be formed on each fin to increase thermal contact and to space and lock the fins uniformly in place. 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.

Rhino Cast Series

Furnish and install as shown on the plans Rhino Cast series baseboard with required mounting components and accessories as manufactured by Slant/Fin Corporation.

Baseboard shall be 8% high and 2% deep. End sections shall have floor - standing legs cast into baseboard. Intermediate sections shall have adjustable floor leveling bolts to compensate for uneven floors.

Optional wall model shall mount on the wall without floor standing legs below baseboard. Wall mounted cast iron baseboard shall be 7% inject and 2% deep. Baseboard shall be mounted off of the floor.

Baseboard shall be made of durable cast iron with metal push nipple used as water seal between sub-assemblies. Screws securing baseboard to wall shall be hidden and not visible from the frontal view.

Provide all required accessories for a complete installation.

BACK COVER

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