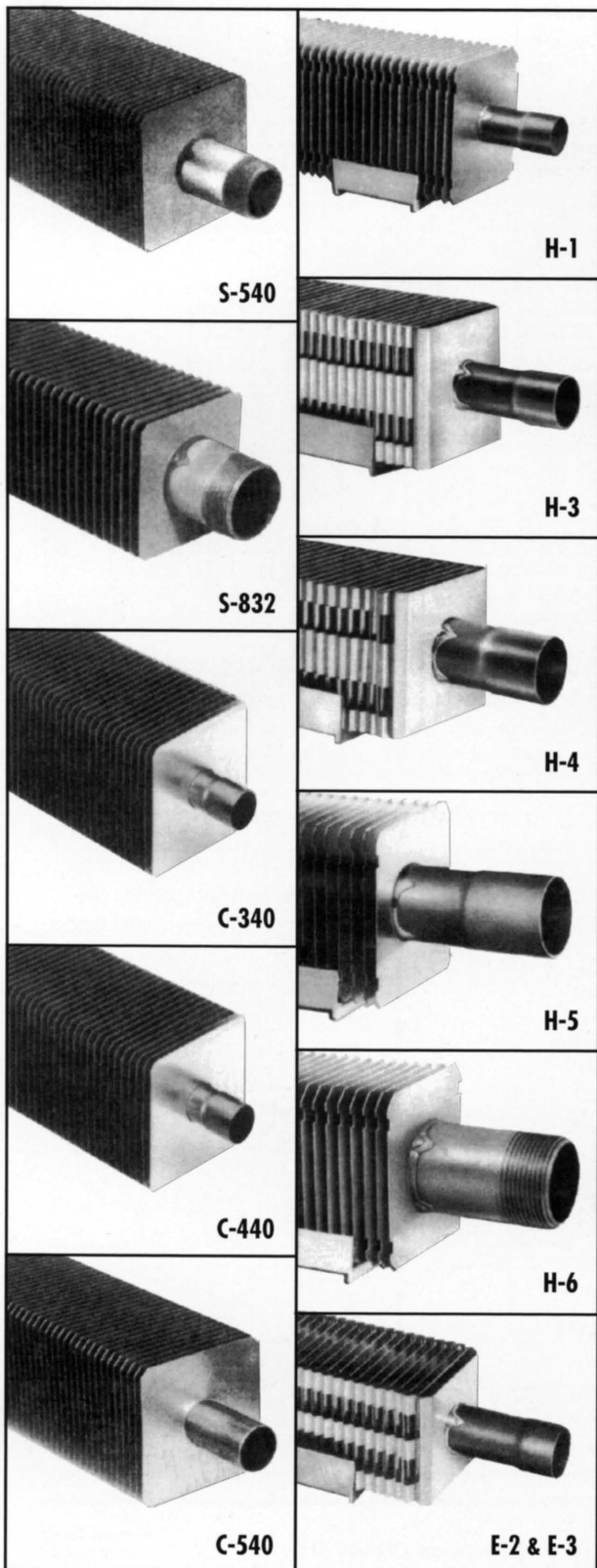


# BARE ELEMENTS STEEL ELEMENTS COPPER/ALUMINUM ELEMENTS

## SPECIFICATIONS



### C-540 Element

Furnish and install C-540 fin-tube heating elements as manufactured by Slant/Fin, consisting of 32 mm (1 1/4") nominal copper seamless-drawn tubing with 108 mm x 108 mm x 0.5 mm (4 1/8" x 4 1/8" x .020") aluminum fins spaced 131/m (40 per linear foot). The aluminum fins have spacing fingers on all four corners of the fin, for precise accurate spacing of fins. The fins are made with collar to produce a tight fitting mechanical bond when tubing is expanded. One end of each element shall be expanded to receive the unexpanded end of another, without couplings.

### C-340 and C-440 Element

Furnish and install C-440 fin-tube heating elements as manufactured by Slant/Fin, consisting of 25 mm (1") nominal\* copper seamless-drawn tubing with 108 mm x 108 mm x 0.5 mm (4 1/8" x 4 1/8" x .020") aluminum fins spaced 131/m (40 per linear foot). The tubing 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. One end of each element shall be unexpanded to receive the expanded end of another, without couplings.

\*C-340 is 19 mm (3/4") copper pipe.

### S-540 and S-832 Element

Furnish and install S-540 fin-tube heating element as manufactured by Slant/Fin, consisting of 32 mm (1 1/4") IPS steel pipe\* (Schedule 40), with 108 mm x 108 mm x 0.6 mm (4 1/8" x 4 1/8" x .024") steel fins spaced 131/m (40 per linear foot) for S-540 and 105/m (32 per linear foot) for 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 51 mm (2") IPS steel pipe.

### H-1 Element

Furnish and install H-1 baseboard heating element as manufactured by Slant/Fin consisting of 19 mm (3/4") nominal copper tubing, with 76 mm x 83 mm x 0.6 mm (3" x 3 1/8" x .024") aluminum fins spaced 157/m (48 per linear foot). The tubing 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. One end of each element tube shall be expanded to receive the unexpanded end of another, without couplings.

### H-3 Element

Furnish and install H-3 baseboard heating element as manufactured by Slant/Fin, consisting of 19 mm (3/4") nominal copper tubing, with 80 mm x 64 mm x 0.3 mm (3 1/8" x 2 1/2" x .011") aluminum fins bent to 70 mm x 64 mm (2 1/4" x 2 1/2"), spaced 180/m (55 per linear foot). The tubing shall be forced through

### H-3 Element cont'd

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

### H-4 Element

Furnish and install H-4 baseboard heating element as manufactured by Slant/Fin, consisting of 25 mm (1") nominal copper tubing, with 88 mm x 64 mm x 0.3 mm (3 1/8" x 2 1/2" x .011") aluminum fins bent to 76 mm x 64 mm (3" x 2 1/2"), spaced 157/m (48 per linear foot). The tubing 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. One end of each element tube shall be expanded to receive the unexpanded end of another, without couplings.

### H-5 Element

Furnish and install H-5 baseboard heating element as manufactured by Slant/Fin, consisting of 32 mm (1 1/4") nominal copper tubing, with 76 mm x 83 mm x 0.5 mm (3" x 3 1/8" x .020") aluminum fins, spaced 157/m (48 per linear foot). The tubing 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. One end of each element tube shall be expanded to receive the unexpanded end of another, without couplings.

### H-6 Element

Furnish and install H-6 baseboard heating element as manufactured by Slant/Fin, consisting of 32 mm (1 1/4") IPS steel pipe (Schedule 40), with 76 mm x 83 mm x 0.6 mm (3" x 3 1/8" x .025") steel fins, spaced 157/m (48 per linear foot). 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.

### E-2 and E-3 Element

Furnish and install E-3 baseboard heating element as manufactured by Slant/Fin, consisting of 19 mm (3/4") nominal\* copper tubing with 67 mm x 54 mm x 0.2 mm (2 1/8" x 2 1/8" x .009") aluminum fins, bent to 59 mm x 54 mm (2 3/8" x 2 1/8"), spaced 180/m (55 per linear foot). The tubing 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. One end of each element tube shall be expanded to receive the unexpanded end of another, without couplings.

\*E-2 is 12.6 mm (1/2") copper tube.

## Slant/Fin Heating Elements

LENGTHS: Precut standard lengths

S and C Series: 610, 914, 1067, 1219, 1524, 1829, 2134, 2438 mm (2, 3, 3 1/2, 4, 5, 6, 7, 8 ft.)

E and H Series: 610, 914, 1067, 1219, 1524, 1829, 2134, 2438 mm (2, 3, 3 1/2, 4, 5, 6, 7, 8 ft.)

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

# BARE ELEMENT RATINGS

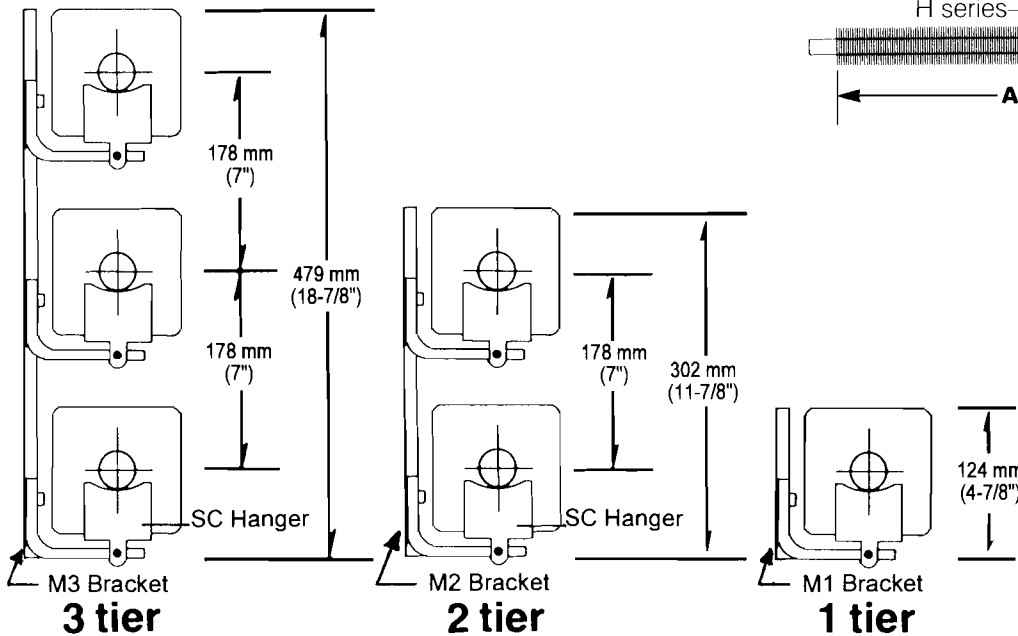
										NOTE Ratings are at specific criteria and any alterations will affect the output													
Model Number	Tube Size & Material	Fin Size and Material	Fins	No. of Tiers 178 mm (7")	Steam*		HOT WATER RATINGS Flow Rate 914 mm/sec (3 ft./sec.) Based on 18°C (65°F) entering air																
					Watts /m	BTUH /ft.	104°C (220°F)		99°C (210°F)		93°C (200°F)		88°C (190°F)		82°C (180°F)		77°C (170°F)		71°C (160°F)		66°C (150°F)		
							Watts /m	BTUH /ft.	Watts /m	BTUH /ft.	Watts /m	BTUH /ft.	Watts /m	BTUH /ft.	Watts /m	BTUH /ft.	Watts /m	BTUH /ft.	Watts /m	BTUH /ft.	Watts /m	BTUH /ft.	
S-540	32 mm (1 1/4") IPS steel	108 x 108 x 0.6 mm 4 1/4" x 4 1/4" x .024" electro gal. steel	131/m 40/ft.	1	1432	1490	1504	1565	1361	1416	1231	1281	1117	1162	988	1028	874	909	759	790	645	671	
					2	2431	2530	2554	2657	2311	2404	2092	2176	1897	1973	1678	1746	1483	1543	1289	1341	1095	1139
					3	3094	3220	3250	3381	2941	3059	2662	2769	2415	2512	2136	2222	1888	1964	1641	1707	1393	1449
S-832	51 mm (2") IPS steel	108 x 108 x 0.6 mm 4 1/4" x 4 1/4" x .024" electro gal. steel	105/m 32/ft.	1	1307	1360	1373	1428	1242	1292	1125	1170	1020	1061	902	938	798	830	693	721	588	612	
					2	2326	2420	2443	2541	2210	2299	2001	2081	1815	1888	1605	1670	1419	1476	1233	1283	1047	1089
					3	3066	3190	3220	3350	2914	3031	2637	2743	2392	2488	2116	2201	1871	1946	1626	1691	1380	1436
C-340	19 mm (3/4") copper	108 x 108 x 0.6 mm 4 1/4" x 4 1/4" x .024" aluminum	131/m 40/ft.	1	1657	1724	1740	1810	1575	1638	1425	1482	1292	1344	1143	1189	1011	1052	879	914	746	776	
					2	2915	3033	3063	3186	2770	2882	2508	2609	2274	2366	2013	2094	1779	1851	1546	1608	1313	1366
					3	3730	3881	3917	4075	3544	3687	3209	3338	2910	3027	2575	2678	2275	2367	1977	2057	1679	1747
C-440	25 mm (1") copper	108 x 108 x 0.6 mm 4 1/4" x 4 1/4" x .024" aluminum	131/m 40/ft.	1	1759	1830	1848	1922	1672	1739	1513	1574	1372	1427	1214	1263	1073	1116	932	970	792	824	
					2	3085	3210	3241	3371	2932	3050	2654	2761	2407	2504	2129	2215	1882	1958	1635	1701	1389	1445
					3	3950	4110	4149	4316	3754	3905	3398	3535	3082	3206	2726	2836	2410	2507	2094	2178	1778	1850
C-540	32 mm (1 1/4") copper	108 x 108 x 0.6 mm 4 1/4" x 4 1/4" x .024" aluminum	131/m 40/ft.	1	1720	1790	1807	1880	1635	1701	1479	1539	1342	1396	1187	1235	1050	1092	912	949	775	806	
					2	3027	3150	3180	3308	2877	2993	2604	2709	2362	2457	2090	2174	1848	1922	1605	1670	1363	1418
					3	3873	4030	4068	4232	3681	3829	3332	3466	3021	3143	2673	2781	2363	2458	2053	2136	1744	1814
H-1	19 mm (3/4") copper	76 x 83 x 0.5 mm 3" x 3 1/4" x .020" aluminum	157/m 48/ft.	1	-	-	1133	1179	1026	1067	929	966	842	876	745	775	658	685	572	595	485	505	
					2	-	-	1608	1673	1454	1513	1317	1370	1195	1243	1056	1099	934	972	811	844	689	717
					3	-	-	2544	2646	2301	2394	2083	2167	1890	1966	1672	1739	1477	1537	1284	1336	1090	1134
H-5	32 mm (1 1/4") copper	76 x 83 x 0.6 mm 3" x 3 1/4" x .025" aluminum	157/m 48/ft.	1	1043	1085	1095	1139	991	1031	897	933	813	846	720	749	636	662	553	575	469	488	
					2	1480	1540	1554	1617	1406	1463	1273	1324	1155	1201	1022	1063	903	939	784	816	666	693
					3	2340	2435	2458	2557	2224	2313	2013	2094	1826	1899	1615	1680	1428	1485	1241	1291	1054	1096
H-6	32 mm (1 1/4") steel	76 x 83 x 0.6 mm 3" x 3 1/4" x .024" electro-galvanized steel	157/m 48/ft.	1	913	950	959	998	868	903	785	817	712	741	630	656	557	580	484	504	411	428	
					2	1384	1440	1453	1512	1315	1368	1190	1238	1080	1123	955	994	844	878	733	763	623	648
					3	1970	2050	2070	2153	1873	1948	1695	1763	1537	1599	1360	1415	1203	1251	1045	1087	887	923

NOTE: H-3, H-4 and E-2 E-3 elements are not recommended for bare element installation. H-1 is not recommended for steam applications.

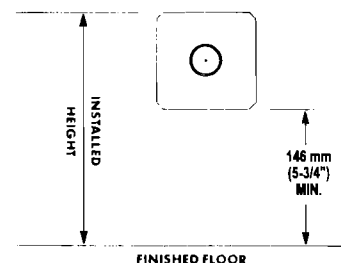
For ratings of lower water temperatures, refer to conversion table on Engineering Data Sheet

\* At 6.895 kPa (1 ps)  
† Flow Rate 914 mm/sec (3 ft./sec.). Based on 18°C (65°F) entering air.

Active length of each element is as follows:  
S and C series—133 mm (5 1/4") less than total length.  
H series—76 mm (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 5 3/4" from finished floor to bottom of fins of lowest element.



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

Manufacturer reserves the right to change product specifications without notice



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