



RATINGS CHART – COMMERCIAL BASEBOARD

MULTI/PAK 90

**RATINGS FOR
CONDENSING
BOILERS**

With or without dampers

Cover Type	Enclosure Height	Element Type	Tube Size and Material	Fin Size & Material	Fins Per Foot	Steam 1 PSI* Btu/Hr. Per Foot	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)											
							110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
90-14	14"	S-532	1¼" steel	4¼" steel	32	1380	276	359	455	552	621	731	842	952	1076	1187	1311	1449
		S-540	1¼" steel	4¼" steel	40	1550	310	403	512	620	698	822	946	1070	1209	1333	1473	1628
		S-832	2" steel	4¼" steel	32	1400	280	364	462	560	630	742	854	966	1092	1204	1330	1470
		C-340	¾" copper	4¼" alum.	40	1839	368	478	607	736	828	975	1122	1269	1435	1582	1748	1932
		C-440	1" copper	4¼" alum.	40	1950	390	507	644	780	878	1034	1190	1346	1521	1677	1853	2048
		C-540	1¼" copper	4¼" alum.	40	1910	382	497	630	764	860	1012	1165	1318	1490	1643	1815	2006
90-21	21"	S-532	1¼" steel	4¼" steel	32	1460	292	380	482	584	657	774	891	1007	1139	1256	1387	1533
		S-540	1¼" steel	4¼" steel	40	1680	336	437	554	672	756	890	1025	1159	1310	1445	1596	1764
		S-832	2" steel	4¼" steel	32	1520	304	395	502	608	684	806	927	1049	1186	1307	1444	1596
		C-340	¾" copper	4¼" alum.	40	2013	399	519	658	798	906	1067	1228	1389	1570	1731	1895	2114
		C-440	1" copper	4¼" alum.	40	2130	426	554	703	852	959	1129	1299	1470	1661	1832	2024	2237
		C-540	1¼" copper	4¼" alum.	40	2090	418	544	690	836	941	1108	1275	1442	1630	1797	1986	2195
90-21 Two-tier element	21"	S-532	1¼" steel	4¼" steel	32	2190	438	570	723	876	986	1161	1336	1511	1708	1883	2081	2300
		S-540	1¼" steel	4¼" steel	40	2380	476	619	785	952	1071	1261	1452	1642	1856	2047	2261	2499
		S-832	2" steel	4¼" steel	32	2270	454	590	749	908	1022	1203	1385	1566	1771	1952	2157	2384
		C-340	¾" copper	4¼" alum.	40	2822	564	734	931	1129	1270	1496	1721	1947	2200	2427	2681	2963
		C-440	1" copper	4¼" alum.	40	2990	598	778	987	1196	1346	1585	1824	2063	2332	2571	2841	3140
		C-540	1¼" copper	4¼" alum.	40	2930	586	762	967	1172	1319	1553	1787	2022	2285	2520	2784	3077

*Based on 65° F entering air temperature.



RATINGS CHART – COMMERCIAL BASEBOARD

MULTI/PAK 93

**RATINGS FOR
CONDENSING
BOILERS**

With or without dampers

Cover Type	Enclosure Height	Element Type	Rows of Heating Elements	Tube Size & Material	Fin Size and Material	Fins Per Foot	Steam 1 PSI* Btu/Hr. Per Foot	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)											
								110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
93-10	9¾"	H-1	1	¾" copper	3" x 3¼" x .024" aluminum	48	1079	216	281	356	432	486	572	658	745	848	928	1025	1133
		H-3	1	¾" copper	2¾" x 2½" x .011" aluminum	55	991	198	258	327	396	446	525	605	684	773	852	941	1041
		H-4	1	1" copper	3" x 2½" x .011" aluminum	48	965	193	251	319	386	434	511	589	666	753	830	917	1013
		H-5X	1	1¼" copper	3" x 3¼" x .020" aluminum	48	1030	206	268	340	412	464	546	628	711	803	886	979	1082
		H-6X	1	1¼" IPS Steel	3" x 3¼" x .028" aluminized steel	48	883	177	230	291	353	397	468	539	609	689	759	839	927
		E-75	1	¾" copper	2⅝" x 2⅞" aluminum	55	828	166	215	273	331	373	439	505	571	646	712	787	869
93-17	16¾"	H-1	1	¾" copper	3" x 3¼" x .024" aluminum	48	1182	236	307	390	473	532	626	721	816	922	1017	1123	1241
		H-3	1	¾" copper	2¾" x 2½" x .011" aluminum	55	1086	217	282	358	435	489	576	662	749	847	934	1032	1140
		H-4	1	1" copper	3" x 2½" x .011" aluminum	48	1057	211	275	349	423	476	560	645	729	824	909	1004	1110
		H-5X	1	1¼" copper	3" x 3¼" x .020" aluminum	48	1128	226	293	372	451	508	598	688	778	880	970	1072	1184
		H-6X	1	1¼" IPS Steel	3" x 3¼" x .028" aluminized steel	48	947	189	246	313	379	426	502	578	653	739	814	900	994
		E-75	1	¾" copper	2⅝" x 2⅞" aluminum	55	907	181	236	299	363	408	481	553	626	707	780	862	952
93-17 Two-tier element	16¾"	H-1	2	¾" copper	3" x 3¼" x .024" aluminum	48	1679	336	437	554	672	756	890	1024	1159	1310	1444	1595	1763
		H-3	2	¾" copper	2¾" x 2½" x .011" aluminum	55	1543	309	401	509	617	694	818	941	1065	1204	1327	1466	1620
		H-4	2	1" copper	3" x 2½" x .011" aluminum	48	1501	300	390	495	600	675	796	916	1036	1171	1291	1426	1576
		H-5X	2	1¼" copper	3" x 3¼" x .020" aluminum	48	1602	320	417	529	641	721	849	977	1105	1250	1378	1522	1682
		H-6X	2	1¼" IPS Steel	3" x 3¼" x .028" aluminized steel	48	1435	287	373	473	574	646	761	875	990	1119	1234	1363	1507
		E-75	2	¾" copper	2⅝" x 2⅞" aluminum	55	1288	258	335	425	515	580	683	786	889	1005	1108	1224	1352

*Based on 65° F entering air temperature.



RATINGS CHART – COMMERCIAL BASEBOARD

MULTI/PAK 95

**RATINGS FOR
CONDENSING
BOILERS**

With or without dampers

Cover Type	Enclosure Height	Element Type	Tube Size & Material	Fin Size & Material	Fins Per Foot	Steam 1 PSI* Btu/Hr. Per Foot	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)											
							110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
95-10	9¾"	S-532	1¼" steel	4¼" steel	32	1254	251	326	414	501	564	665	765	865	978	1078	1191	1317
		S-540	1¼" steel	4¼" steel	40	1470	294	382	485	588	662	779	897	1014	1147	1264	1397	1544
		C-340	¾" copper	4¼" alum.	40	1680	336	437	555	672	756	891	1025	1159	1311	1445	1597	1764
		C-440	1" copper	4¼" alum.	40	1780	356	463	587	712	801	943	1086	1228	1388	1531	1691	1869
		C-540	1¼" copper	4¼" alum.	40	1745	349	454	576	698	785	925	1064	1204	1361	1501	1658	1832
95-17	16¾"	S-532	1¼" steel	4¼" steel	32	1351	270	351	446	540	608	716	824	932	1054	1162	1283	1419
		S-540	1¼" steel	4¼" steel	40	1577	315	410	520	631	710	836	962	1088	1230	1356	1498	1656
		C-340	¾" copper	4¼" alum.	40	1840	368	478	607	736	828	976	1123	1270	1436	1582	1748	1933
		C-440	1" copper	4¼" alum.	40	1950	390	507	644	780	878	1034	1190	1346	1521	1677	1853	2048
		C-540	1¼" copper	4¼" alum.	40	1911	382	497	630	764	860	1013	1166	1319	1491	1643	1815	2007
95-17 Two-tier element	16¾"	S-532	1¼" steel	4¼" steel	32	2153	431	560	710	861	969	1141	1313	1486	1679	1852	2045	2261
		S-540	1¼" steel	4¼" steel	40	2390	478	622	789	956	1076	1267	1458	1649	1864	2055	2271	2510
		C-340	¾" copper	4¼" alum.	40	2615	523	680	863	1046	1177	1386	1595	1804	2040	2249	2484	2746
		C-440	1" copper	4¼" alum.	40	2770	554	720	914	1108	1247	1468	1690	1911	2161	2382	2632	2909
		C-540	1¼" copper	4¼" alum.	40	2715	543	706	896	1086	1222	1439	1656	1873	2118	2335	2579	2851

*Based on 65°F entering air temperature.



RATINGS CHART – COMMERCIAL BASEBOARD

350 SERIES

**RATINGS FOR
CONDENSING
BOILERS**

Model Number	Element Type	Rows of Heating Element	Tube Size & Material	Fin Size & Material	Fins Per Foot	Water Flow	Pressure Drop †	Steam 1 PSI* Btu/Hr. Per Foot	HOT WATER RATINGS* BTU/HR./FT.											
									110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
Single-tier, 9 7/8" Models																				
351-10	H-1	1	3/4 copper	3" x 3 3/4" x .024 aluminum	48	1 GPM	47	—	230	310	390	480	570	670	770	870	980	1080	1200	1320
						4 GPM	525		240	330	410	510	600	700	810	920	1040	1140	1260	1400
353-10	H-3	1	3/4" copper	2 3/4" x 2 1/2" x .011" aluminum	55	1 GPM	47	—	210	290	360	440	520	610	710	800	900	1000	1100	1220
						4 GPM	525		220	310	380	470	550	650	750	850	960	1060	1170	1290
354-10	H-4	1	1" copper	3" x 2 1/2" x .011" aluminum	48	1 GPM	13	—	210	290	360	440	520	610	710	800	900	1000	1100	1220
						4 GPM	145		220	310	380	470	550	650	750	850	960	1060	1170	1290
355-10	H-5X	1	1-1/4" copper	3" x 3 3/4" x .020" aluminum	48	1 GPM	6	1160	220	300	370	450	540	640	730	830	940	1040	1140	1260
						4 GPM	63		230	320	390	480	570	670	780	880	990	1100	1210	1340
356-10	H-6X	1	1-1/4" IPS steel	3" x 3 3/4" x .028 aluminized steel	48	1 GPM	3	980	190	250	320	390	460	550	630	710	810	890	980	1080
						4 GPM	41		200	260	340	410	490	580	670	750	850	940	1040	1150
Two-tier, 13 7/8" Models																				
351-14	H-1	2	3/4" copper	3" x 3 3/4" x .024 aluminum	48	1 GPM	47	—	360	480	610	740	880	1040	1290	1440	1590	1740	1890	2030
						4 GPM	525		380	510	640	780	970	1150	1420	1590	1750	1920	2080	2250
353-14	H-3	2	3/4" copper	2 3/4" x 2 1/2" x .011" aluminum	55	1 GPM	47	—	340	460	570	700	830	980	1210	1350	1490	1630	1770	1910
						4 GPM	525		360	490	600	740	910	1080	1340	1490	1650	1800	1960	2110
354-14	H-4	2	1" copper	3" x 2 1/2" x .011" aluminum	48	1 GPM	13	—	340	460	570	700	830	980	1210	1350	1490	1630	1770	1910
						4 GPM	145		360	490	600	740	910	1080	1340	1490	1650	1800	1960	2110
355-14	H-5x	2	1-1/2" copper	3" x 3 3/4" x .020" aluminum	48	1 GPM	6	2160	350	470	590	710	850	1000	1240	1390	1530	1670	1820	1960
						4 GPM	63		370	500	620	750	940	1100	1370	1530	1690	1850	2010	2160
356-14	H-6x	2	1-1/4" IPS steel	3" x 3 3/4" x .028 aluminized steel	48	1 GPM	3	1870	300	400	500	610	730	860	1070	1200	1320	1450	1570	1690
						4 GPM	41		320	420	530	640	810	950	1190	1320	1460	1600	1730	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.



RATINGS CHART – COMMERCIAL BASEBOARD

BARE ELEMENTS

**RATINGS FOR
CONDENSING
BOILERS**

Model Number	Tube Size and Material	Fin Size and Material	Fins per Foot	No. of Tiers 7" cl	Pressure Drop †	Steam 1 PSI* Btu/Hr. Per Foot	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)											
							110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
S-532	1½" IPS steel electro-gal. steel	4¼" x 4¼" x .024"	32	1	420	1340	268	348	442	536	603	710	817	925	1045	1152	1273	1407
						2410	482	627	795	964	1085	1277	1470	1663	1880	2073	2290	2531
						3170	634	824	1046	1268	1427	1680	1934	2187	2473	2726	3012	3329
S-540	1½" IPS steel electro-gal. steel	4¼" x 4¼" x .024"	40	1	420	1490	398	388	492	596	671	790	909	1028	1162	1281	1416	1565
						2530	506	658	835	1012	1139	1341	1543	1746	1973	2176	2404	2657
						3220	644	837	1063	1288	1449	1707	1964	2222	2512	2769	3059	3381
S-832	2" IPS steel electro-gal. steel	4¼" x 4¼" x .024"	32	1	252	1360	272	354	449	544	612	721	830	938	1061	1170	1292	1428
						2420	484	629	799	968	1089	1283	1476	1670	1888	2081	2299	2541
						3190	638	830	1053	1276	1436	1691	1946	2201	2488	2743	3031	3350
C-340	¾" copper aluminum	4¼" x 4¼" x .020"	40	1	708	1724	345	448	569	690	776	914	1052	1189	1344	1482	1638	1810
						3033	607	789	1001	1213	1366	1608	1851	2094	2366	2609	2882	3186
						3881	776	1009	1281	1552	1747	2057	2367	2678	3027	3338	3687	4075
C-440	1" copper aluminum	4¼" x 4¼" x .020"	40	1	504	1830	366	476	604	732	824	970	1116	1263	1427	1574	1739	1922
						3210	642	835	1059	1284	1445	1701	1958	2215	2504	2761	3050	3371
						4110	822	1069	1356	1644	1850	2178	2507	2836	3206	3535	3905	4316
C-540	1¼" copper aluminum	4¼" x 4¼" x .020"	40	1	396	1790	358	466	591	716	806	949	1092	1235	1398	1539	1701	1880
						3150	630	819	1040	1260	1418	1670	1922	2174	2457	2709	2993	3308
						4030	806	1048	1330	1612	1814	2136	2458	2781	3143	3466	3829	4232
H-1	¾" copper aluminum	3" x 3¼" x .024"	48	1	708	—	225	292	371	449	505	595	685	775	876	966	1067	1179
						—	319	414	526	637	717	844	972	1099	1243	1370	1513	1673
						—	504	655	832	1008	1134	1336	1537	1739	1966	2167	2394	2646
H-5X	1¼" copper aluminum	3" x 3¼" x .020"	48	1	396	1085	217	282	358	434	488	575	662	749	846	933	1031	1139
						1540	308	400	508	616	693	816	939	1063	1201	1324	1463	1617
						2435	487	633	803	974	1096	1291	1485	1680	1899	2094	2313	2557
H-6X	1½" IPS steel aluminized steel	3" x 3¼" x .028"	48	1	420	950	190	247	314	380	428	504	580	656	741	817	903	998
						1440	288	374	475	576	648	763	878	994	1123	1238	1368	1512
						2050	410	533	677	820	923	1087	1251	1415	1599	1763	1948	2153

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

SLANT/FIN CORPORATION, Greenvale, NY 11548 • Phone: (516) 484-2600
FAX: (516) 484-5921 • In Canada: Slant/Fin LTD/LTEE, Mississauga, Ontario
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RATINGS CHART – COMMERCIAL BASEBOARD

F & EM SERIES

**RATINGS FOR
CONDENSING
BOILERS**

Model Number	Enclosure Height	Element Type	Tube Size and Material	Fin Size and Material	Fins Per Foot	Steam 1 PSI* Btu./Hr. Per Foot	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)											
							110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
F-5	4¾"	S-532	1¼" steel	4¾" steel	32	1250	250	325	413	500	563	663	763	862	975	1075	1188	1313
		S-540	1¼" steel	4¾" steel	40	1340	268	348	442	536	603	710	817	925	1045	1152	1273	1407
		S-832	2" steel	4¾" steel	32	1280	256	333	422	512	576	678	781	883	998	1101	1216	1344
		C-340	¾" copper	4¾" alum.	40	1560	312	406	515	624	702	827	951	1077	1217	1341	1482	1638
		C-440	1" copper	4¾" alum.	40	1650	330	429	545	660	743	875	1007	1139	1287	1419	1568	1733
		C-540	1¼" copper	4¾" alum.	40	1620	324	421	535	648	729	859	988	1118	1264	1393	1539	1701
F-12 Two-tier element	11¾"	S-532	1¼" steel	4¾" steel	32	2070	414	538	683	828	932	1097	1263	1428	1615	1780	1967	2174
		S-540	1¼" steel	4¾" steel	40	2160	432	562	713	864	972	1145	1318	1490	1685	1858	2052	2268
		S-832	2" steel	4¾" steel	32	2090	418	544	690	836	941	1108	1275	1442	1630	1797	1986	2195
		C-340	¾" copper	4¾" alum.	40	2600	520	676	858	1040	1170	1378	1586	1794	2028	2236	2470	2730
		C-440	1" copper	4¾" alum.	40	2750	550	715	908	1100	1238	1458	1678	1897	2145	2365	2613	2888
		C-540	1¼" copper	4¾" alum.	40	2700	540	702	891	1080	1215	1431	1647	1863	2106	2322	2565	2835
F-19 Three-tier element	18¾"	S-532	1¼" steel	4¾" steel	32	2580	516	671	851	1032	1161	1367	1574	1780	2012	2219	2451	2709
		S-540	1¼" steel	4¾" steel	40	2690	538	700	888	1076	1211	1426	1641	1856	2098	2313	2556	2825
		S-832	2" steel	4¾" steel	32	2610	522	679	861	1044	1175	1383	1592	1801	2036	2245	2480	2741
		C-340	¾" copper	4¾" alum.	40	3139	628	816	1036	1256	1413	1664	1915	2166	2449	2700	2982	3296
		C-440	1" copper	4¾" alum.	40	3330	666	866	1099	1332	1499	1765	2031	2298	2597	2864	3164	3497
		C-540	1¼" copper	4¾" alum.	40	3260	652	848	1076	1304	1467	1728	1989	2249	2543	2804	3097	3423
EM-5	4¾"	S-532	1¼" steel	4¾" steel	32	1290	258	336	426	516	581	684	787	890	1006	1109	1226	1355
		S-540	1¼" steel	4¾" steel	40	1370	274	356	452	548	617	726	836	945	1069	1178	1302	1439
		S-832	2" steel	4¾" steel	32	1310	262	341	432	524	590	694	799	904	1022	1127	1245	1376
		C-340	¾" copper	4¾" alum.	40	1656	331	431	547	663	745	878	1010	1143	1292	1424	1574	1739
		C-440	1" copper	4¾" alum.	40	1750	350	455	578	700	788	928	1068	1208	1365	1505	1663	1838
		C-540	1¼" copper	4¾" alum.	40	1720	344	447	568	688	774	912	1049	1187	1342	1479	1634	1806
EM-12 Two-tier element	11¾"	S-532	1¼" steel	4¾" steel	32	2270	454	590	749	908	1022	1203	1385	1566	1771	1952	2157	2384
		S-540	1¼" steel	4¾" steel	40	2390	478	622	789	956	1076	1267	1458	1649	1864	2055	2271	2510
		S-832	2" steel	4¾" steel	32	2290	458	596	756	916	1031	1214	1397	1580	1786	1969	2176	2405
		C-340	¾" copper	4¾" alum.	40	2918	584	759	963	1167	1314	1547	1780	2014	2276	2510	2772	3064
		C-440	1" copper	4¾" alum.	40	3090	618	804	1020	1236	1391	1638	1885	2132	2410	2657	2936	3245
		C-540	1¼" copper	4¾" alum.	40	3030	606	788	1000	1212	1364	1606	1848	2091	2363	2606	2879	3182
EM-19 Three-tier element	18¾"	S-532	1¼" steel	4¾" steel	32	3060	612	796	1010	1224	1377	1622	1867	2111	2387	2632	2907	3213
		S-540	1¼" steel	4¾" steel	40	3140	628	816	1036	1256	1413	1664	1915	2167	2449	2700	2983	3297
		S-832	2" steel	4¾" steel	32	3080	616	801	1016	1232	1386	1632	1879	2125	2402	2649	2926	3234
		C-340	¾" copper	4¾" alum.	40	3736	747	972	1233	1495	1681	1980	2279	2578	2914	3214	3550	3923
		C-440	1" copper	4¾" alum.	40	3960	792	1030	1307	1584	1782	2099	2416	2732	3089	3406	3762	4158
		C-540	1¼" copper	4¾" alum.	40	3880	776	1009	1280	1552	1746	2056	2367	2677	3026	3337	3686	4074

*Based on 65°F entering air temperature.

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RATINGS CHART – COMMERCIAL BASEBOARD

FS SERIES

**RATINGS FOR
CONDENSING
BOILERS**

Cover Type	Enclosure Height	Element Type	Tube Size & Material	Fin Size & Material	Fins Per Foot	Steam 1 PSI* Btu/Hr. Per Foot	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)											
							110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
FS-7	7"	S-532	1¼" steel	4¼" steel	32	1290	258	336	426	516	581	684	787	890	1006	1109	1226	1355
		S-540	1¼" steel	4¼" steel	40	1390	278	362	459	556	626	737	848	959	1084	1195	1321	1460
		C-340	¾" copper	4¼" alum.	40	1579	316	411	521	632	711	837	963	1090	1232	1358	1500	1658
		C-440	1" copper	4¼" alum.	40	1670	334	434	551	668	752	885	1019	1152	1303	1436	1587	1754
		C-540	1¼" copper	4¼" alum.	40	1640	328	426	541	656	738	869	1000	1132	1279	1410	1558	1722
FS-14	14"	S-532	1¼" steel	4¼" steel	32	1330	266	346	439	532	599	705	811	918	1037	1144	1264	1397
		S-540	1¼" steel	4¼" steel	40	1540	308	400	508	616	693	816	939	1063	1201	1324	1463	1617
		C-340	¾" copper	4¼" alum.	40	1782	356	463	588	713	802	945	1087	1230	1390	1532	1693	1871
		C-440	1" copper	4¼" alum.	40	1890	378	492	624	756	851	1002	1153	1304	1474	1625	1796	1985
		C-540	1¼" copper	4¼" alum.	40	1850	370	481	611	740	833	981	1129	1277	1443	1591	1758	1943
FS-14 Two-tier element/	14"	S-532	1¼" steel	4¼" steel	32	1850	370	481	611	740	833	981	1129	1277	1443	1591	1758	1943
		S-540	1¼" steel	4¼" steel	40	1955	391	508	645	782	880	1036	1193	1349	1525	1681	1857	2053
		C-340	¾" copper	4¼" alum.	40	2311	462	601	763	925	1040	1225	1410	1595	1803	1988	2196	2427
		C-440	1" copper	4¼" alum.	40	2450	490	637	809	980	1103	1299	1495	1690	1911	2107	2328	2573
		C-540	1¼" copper	4¼" alum.	40	2400	480	624	792	960	1080	1272	1464	1656	1872	2064	2280	2520
FS-21	21"	S-532	1¼" steel	4¼" steel	32	1610	322	419	531	644	725	853	982	1111	1256	1385	1530	1691
		S-540	1¼" steel	4¼" steel	40	1675	335	435	553	670	754	888	1022	1156	1307	1441	1591	1759
		C-340	¾" copper	4¼" alum.	40	2008	402	522	663	803	903	1064	1225	1386	1566	1727	1908	2108
		C-440	1" copper	4¼" alum.	40	2130	426	554	703	852	959	1129	1299	1470	1661	1832	2024	2237
		C-540	1¼" copper	4¼" alum.	40	2085	417	542	688	832	938	1105	1272	1439	1626	1793	1981	2189
FS-21 Two-tier element/	21"	S-532	1¼" steel	4¼" steel	32	2140	428	556	706	856	963	1134	1305	1477	1669	1840	2033	2247
		S-540	1¼" steel	4¼" steel	40	2245	449	584	741	898	1010	1190	1369	1549	1751	1931	2133	2357
		C-340	¾" copper	4¼" alum.	40	2648	528	686	871	1056	1192	1404	1616	1827	2066	2277	2507	2781
		C-440	1" copper	4¼" alum.	40	2810	562	731	927	1124	1265	1489	1714	1939	2192	2417	2670	2951
		C-540	1¼" copper	4¼" alum.	40	2750	550	715	908	1100	1238	1458	1678	1897	2145	2365	2613	2888
FS-21 Three-tier element/	21"	S-532	1¼" steel	4¼" steel	32	2380	476	619	785	952	1071	1261	1452	1642	1856	2047	2261	2499
		S-540	1¼" steel	4¼" steel	40	2540	508	660	838	1016	1143	1346	1549	1753	1981	2184	2413	2667
		C-340	¾" copper	4¼" alum.	40	3005	601	781	991	1202	1352	1593	1833	2073	2344	2584	2854	3155
		C-440	1" copper	4¼" alum.	40	3180	636	827	1049	1272	1431	1685	1940	2194	2480	2735	3021	3339
		C-540	1¼" copper	4¼" alum.	40	3120	624	811	1030	1248	1404	1654	1903	2153	2434	2683	2964	3276

*Based on 65°F entering air temperature.



RATINGS CHART – COMMERCIAL BASEBOARD

HD-SERIES

**RATINGS FOR
CONDENSING
BOILERS**

Model Number	Element Type	Rows of Heating Element	Tube Size and Material	Fin Size and Material	Fins per Foot	Water Flow	Pressure Drop†	Steam 1 PSI* Btu/Hr. Per Foot	HOT WATER RATINGS* BTU/HR./FT.													
									110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F		
Single-tier, 8½" Models																						
HD-850	H-1	1	¾" copper	3" x ¾" x .024" aluminum	48	1 GPM	47	—	190	260	320	390	470	550	640	720	800	890	970	1050		
						4 GPM	525		200	270	340	410	500	580	680	760	850	940	1030	1110		
HD-850	H-3	1	¾" copper	2¾" x 2½" x .011" aluminum	55	1 GPM	47	—	170	230	290	350	420	490	570	640	720	790	870	940		
						4 GPM	525		180	240	310	370	440	520	600	680	760	840	920	990		
HD-850	H-4	1	1" copper	3" x 2½" x .011" aluminum	48	1 GPM	13	—	170	230	280	340	410	460	560	630	710	780	860	1030		
						4 GPM	145		180	240	300	360	430	500	590	670	750	830	1000	980		
HD-850	H-5X	1	1¼" copper	3" x ¾" x .020" aluminum	48	1 GPM	6	1160	180	240	300	360	430	550	600	680	770	860	920	1010		
						4 GPM	63		190	250	320	380	460	560	640	710	810	880	980	1070		
HD-850	H-6X	1	1¼" IPS steel	3" x ¾" x .028" aluminized steel	48	1 GPM	3	980	150	200	250	300	360	440	510	570	640	710	780	850		
						4 GPM	41		160	210	260	320	370	450	540	600	680	750	830	900		
Two-tier, 14" Models																						
HD-1400	H-1	2	¾" copper	3" x ¾" x .024" aluminum	48	1 GPM	47	—	280	380	480	580	690	820	940	1070	1190	1320	1450	1570		
						4 GPM	525		300	400	510	610	730	870	990	1130	1260	1400	1530	1660		
HD-1400	H-3	2	¾" copper	2¾" x 2½" x .011" aluminum	55	1 GPM	47	—	270	360	450	550	650	770	880	1000	1110	1230	1340	1460		
						4 GPM	525		290	380	480	580	690	810	930	1060	1170	1300	1420	1540		
HD-1400	H-4	2	1" copper	3" x 2½" x .011" aluminum	48	1 GPM	13	—	260	350	440	540	640	740	870	990	1100	1220	1330	1440		
						4 GPM	145		270	370	470	570	680	790	920	1050	1160	1290	1400	1480		
HD-1400	H-5X	2	1¼" copper	3" x ¾" x .020" aluminum	48	1 GPM	6	1630	270	360	450	550	650	820	900	1030	1160	1290	1400	1530		
						4 GPM	63		290	380	480	580	690	850	950	1080	1220	1340	1480	1620		
HD-1400	H-6X	2	1¼" IPS steel	3" x ¾" x .028" aluminized steel	48	1 GPM	3	1440	230	320	400	490	580	710	810	920	1030	1140	1260	1370		
						4 GPM	41		240	340	420	520	600	740	850	970	1090	1210	1330	1450		

* Based on 65°F entering air temperature. † Millinches per foot.
Note: Ratings are based on active finned length (3" less than overall length), and include 15% heating effect factor.
 Use 4 GPM rating only when flow is known to be equal to or greater than 4 GPM; otherwise 1 GPM ratings must be used.



RATINGS CHART – COMMERCIAL BASEBOARD

J-SERIES

**RATINGS FOR
CONDENSING
BOILERS**

With or without dampers

Cover Type	Enclosure Height	Element Type	Tube Size and Material	Fin Size and Material	Fins Per Foot	Steam 1 PSI* Btu/Hr. Per Foot	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)											
							110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
JL-10 JR-10	9 7/8"	S-532	1 1/4" steel	4 1/4" steel	32	1330	266	346	439	532	599	705	811	918	1037	1144	1264	1397
		S-540	1 1/4" steel	4 1/4" steel	40	1430	286	372	472	572	644	758	872	987	1115	1230	1359	1502
		S-832	2" steel	4 1/4" steel	32	1350	270	351	446	540	608	716	824	931	1053	1161	1283	1418
		C-340	3/8" copper	4 1/4" alum.	40	1753	351	456	578	701	789	929	1069	1210	1367	1507	1665	1840
		C-440	1" copper	4 1/4" alum.	40	1860	372	484	614	744	837	986	1135	1283	1451	1600	1767	1953
C-540	1 1/4" copper	4 1/4" alum.	40	1820	364	473	601	728	819	965	1110	1256	1420	1565	1729	1911		
JA-14 JR-14	14"	S-532	1 1/4" steel	4 1/4" steel	32	1380	276	359	455	552	621	731	842	952	1076	1187	1311	1449
		S-540	1 1/4" steel	4 1/4" steel	40	1550	310	403	512	620	698	822	946	1070	1209	1333	1473	1628
		S-832	2" steel	4 1/4" steel	32	1400	280	364	462	560	630	742	854	966	1092	1204	1330	1470
		C-340	3/8" copper	4 1/4" alum.	40	1839	368	478	607	736	828	975	1122	1269	1435	1582	1748	1932
		C-440	1" copper	4 1/4" alum.	40	1950	390	507	644	780	878	1034	1190	1346	1521	1677	1853	2048
C-540	1 1/4" copper	4 1/4" alum.	40	1910	382	497	630	764	860	1012	1165	1318	1490	1643	1815	2006		
JA-21 JR-21	21"	S-532	1 1/4" steel	4 1/4" steel	32	1460	292	380	482	584	657	774	891	1007	1139	1256	1387	1533
		S-540	1 1/4" steel	4 1/4" steel	40	1680	336	437	554	672	756	890	1025	1159	1310	1445	1596	1764
		S-832	2" steel	4 1/4" steel	32	1520	304	395	502	608	684	806	927	1049	1186	1307	1444	1596
		C-340	3/8" copper	4 1/4" alum.	40	2013	403	524	665	805	906	1067	1228	1389	1570	1731	1913	2114
		C-440	1" copper	4 1/4" alum.	40	2130	426	554	703	852	959	1129	1299	1470	1661	1832	2024	2237
C-540	1 1/4" copper	4 1/4" alum.	40	2090	418	544	690	836	941	1108	1275	1442	1630	1797	1986	2195		
JA-21 JR-21 Two-tier element	21"	S-532	1 1/4" steel	4 1/4" steel	32	2190	438	570	723	876	986	1161	1336	1511	1708	1883	2081	2300
		S-540	1 1/4" steel	4 1/4" steel	40	2380	476	619	785	952	1071	1261	1452	1642	1856	2047	2261	2499
		S-832	2" steel	4 1/4" steel	32	2270	454	590	749	908	1022	1203	1385	1566	1771	1952	2157	2384
		C-340	3/8" copper	4 1/4" alum.	40	2822	586	762	967	1172	1270	1496	1721	1947	2200	2427	2784	2963
		C-440	1" copper	4 1/4" alum.	40	2990	598	778	987	1196	1346	1585	1824	2063	2332	2571	2841	3140
C-540	1 1/4" copper	4 1/4" alum.	40	2993	586	762	967	1172	1319	1553	1787	2022	2285	2520	2784	3077		
JA-28 JR-28	28"	S-532	1 1/4" steel	4 1/4" steel	32	1480	296	385	488	592	666	784	903	1021	1154	1273	1406	1554
		S-540	1 1/4" steel	4 1/4" steel	40	1710	342	445	564	684	770	906	1043	1180	1334	1471	1625	1796
		S-832	2" steel	4 1/4" steel	32	1550	310	403	512	620	698	822	946	1070	1209	1333	1473	1628
		C-340	3/8" copper	4 1/4" alum.	40	2051	410	533	677	821	924	1087	1251	1416	1600	1764	1949	2154
		C-440	1" copper	4 1/4" alum.	40	2170	434	564	716	868	977	1150	1324	1497	1693	1866	2062	2279
C-540	1 1/4" copper	4 1/4" alum.	40	2130	426	554	703	852	959	1129	1299	1470	1661	1832	2024	2237		
JA-28 JR-28 Two-tier element	28"	S-532	1 1/4" steel	4 1/4" steel	32	2290	458	596	756	916	1031	1214	1397	1580	1786	1969	2176	2405
		S-540	1 1/4" steel	4 1/4" steel	40	2510	502	653	828	1004	1130	1330	1531	1732	1958	2159	2385	2636
		S-832	2" steel	4 1/4" steel	32	2430	486	632	802	972	1094	1288	1482	1677	1895	2090	2309	2552
		C-340	3/8" copper	4 1/4" alum.	40	2937	588	764	970	1175	1322	1557	1792	2027	2291	2526	2791	3084
		C-440	1" copper	4 1/4" alum.	40	3110	622	809	1026	1244	1400	1648	1897	2146	2426	2675	2955	3266
C-540	1 1/4" copper	4 1/4" alum.	40	3050	610	793	1007	1220	1373	1617	1861	2105	2379	2623	2898	3203		
JA-28 JR-28 Three-tier element	28"	S-532	1 1/4" steel	4 1/4" steel	32	2830	566	736	934	1132	1274	1500	1726	1953	2207	2434	2689	2972
		S-540	1 1/4" steel	4 1/4" steel	40	2930	586	762	967	1172	1319	1553	1787	2022	2285	2520	2784	3077
		S-832	2" steel	4 1/4" steel	32	2880	576	749	950	1152	1296	1526	1757	1987	2246	2477	2736	3024
		C-340	3/8" copper	4 1/4" alum.	40	3467	693	901	1144	1387	1560	1837	2115	2392	2704	2981	3293	3640
		C-440	1" copper	4 1/4" alum.	40	3670	734	954	1211	1468	1652	1945	2239	2532	2863	3156	3487	3854
C-540	1 1/4" copper	4 1/4" alum.	40	3600	720	936	1188	1440	1620	1908	2196	2484	2808	3096	3420	3780		

*Based on 65°F entering air temperature.

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RATINGS CHART – COMMERCIAL BASEBOARD

R-SERIES



Cover Type	Enclosure Height	Element Type	Tube Size and Material	Fin Size and Material	Fins Per Foot	Steam 1 PSI* Btu/Hr. Per Foot	HOT WATER RATINGS*											
							BTU/HR./FT. (Flow Rate 3 Ft./Sec.)											
							110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
RL-10 RR-10	9 7/8"	S-532	1 1/4" steel	4 1/4" steel	32	1230	246	320	406	492	554	652	750	849	959	1058	1169	1292
		S-540	1 1/4" steel	4 1/4" steel	40	1330	266	346	439	532	599	705	811	918	1037	1144	1264	1397
		S-832	2" steel	4 1/4" steel	32	1270	254	330	419	508	572	673	755	876	991	1092	1207	1334
		C-340	3/4" copper	4 1/4" alum.	40	1647	329	428	544	659	742	872	1004	1136	1285	1417	1565	1730
		C-440	1" copper	4 1/4" alum.	40	1740	348	452	574	696	783	922	1061	1201	1357	1496	1653	1827
C-540	1 1/4" copper	4 1/4" alum.	40	1710	342	445	564	684	770	906	1043	1180	1334	1471	1625	1796		
RT-14 RR-14	14"	S-532	1 1/4" steel	4 1/4" steel	32	1280	256	333	422	512	576	678	781	883	998	1101	1216	1344
		S-540	1 1/4" steel	4 1/4" steel	40	1500	300	390	495	600	675	795	915	1035	1170	1290	1425	1575
		S-832	2" steel	4 1/4" steel	32	1320	264	343	436	528	594	700	805	911	1030	1135	1254	1386
		C-340	3/4" copper	4 1/4" alum.	40	1714	343	446	566	685	771	908	1046	1183	1337	1474	1628	1800
		C-440	1" copper	4 1/4" alum.	40	1820	364	473	601	728	819	965	1110	1256	1420	1565	1729	1911
C-540	1 1/4" copper	4 1/4" alum.	40	1780	356	463	587	712	801	943	1086	1228	1388	1531	1691	1869		
RT-21 RR-21	21"	S-532	1 1/4" steel	4 1/4" steel	32	1380	276	359	455	552	621	731	842	952	1076	1187	1311	1449
		S-540	1 1/4" steel	4 1/4" steel	40	1610	322	419	531	644	725	853	982	1111	1256	1385	1530	1691
		S-832	2" steel	4 1/4" steel	32	1460	292	380	482	584	657	774	891	1007	1139	1256	1387	1533
		C-340	3/4" copper	4 1/4" alum.	40	1878	376	488	620	751	846	996	1146	1296	1465	1615	1784	1972
		C-440	1" copper	4 1/4" alum.	40	1990	398	518	657	796	896	1055	1214	1373	1552	1711	1891	2090
C-540	1 1/4" copper	4 1/4" alum.	40	1950	390	507	644	780	878	1034	1190	1346	1521	1677	1853	2048		
RT-21 RR-21 Two-tier element	21"	S-532	1 1/4" steel	4 1/4" steel	32	2200	440	572	726	880	990	1166	1342	1518	1716	1892	2090	2310
		S-540	1 1/4" steel	4 1/4" steel	40	2440	488	634	805	976	1098	1293	1488	1684	1903	2098	2318	2562
		S-832	2" steel	4 1/4" steel	32	2230	446	580	736	892	1004	1182	1360	1539	1739	1918	2119	2342
		C-340	3/4" copper	4 1/4" alum.	40	2668	534	694	881	1067	1201	1414	1627	1840	2081	2294	2535	2801
		C-440	1" copper	4 1/4" alum.	40	2830	566	736	934	1132	1274	1500	1726	1953	2207	2434	2689	2972
C-540	1 1/4" copper	4 1/4" alum.	40	2770	554	720	914	1108	1247	1468	1690	1911	2161	2382	2632	2909		
RT-28 RR-28	28"	S-532	1 1/4" steel	4 1/4" steel	32	1400	280	364	462	560	630	742	854	956	1092	1204	1330	1470
		S-540	1 1/4" steel	4 1/4" steel	40	1680	336	437	554	672	756	890	1025	1159	1310	1445	1596	1764
		S-832	2" steel	4 1/4" steel	32	1480	296	385	488	592	666	784	903	1021	1154	1273	1406	1554
		C-340	3/4" copper	4 1/4" alum.	40	1907	381	496	629	763	858	1010	1163	1315	1487	1640	1811	2002
		C-440	1" copper	4 1/4" alum.	40	2020	404	525	667	808	909	1071	1232	1394	1576	1737	1919	2121
C-540	1 1/4" copper	4 1/4" alum.	40	1980	396	515	653	792	891	1049	1208	1366	1544	1703	1881	2079		
RT-28 RR-28 Two-tier element	28"	S-532	1 1/4" steel	4 1/4" steel	32	2260	452	588	746	904	1017	1198	1379	1559	1763	1944	2147	2373
		S-540	1 1/4" steel	4 1/4" steel	40	2460	492	640	812	984	1107	1304	1501	1697	1919	2116	2337	2583
		S-832	2" steel	4 1/4" steel	32	2270	454	590	749	908	1022	1203	1385	1566	1771	1952	2157	2384
		C-340	3/4" copper	4 1/4" alum.	40	2860	572	744	944	1144	1288	1516	1745	1973	2231	2460	2718	3004
		C-440	1" copper	4 1/4" alum.	40	3030	606	788	1000	1212	1364	1606	1848	2091	2363	2606	2879	3182
C-540	1 1/4" copper	4 1/4" alum.	40	2970	594	772	980	1188	1337	1574	1812	2049	2317	2554	2822	3119		
RT-28 RR-28 Three-tier element	28"	S-532	1 1/4" steel	4 1/4" steel	32	2580	516	671	851	1032	1161	1367	1574	1780	2012	2219	2451	2709
		S-540	1 1/4" steel	4 1/4" steel	40	2800	560	728	924	1120	1260	1484	1708	1932	2184	2408	2660	2940
		S-832	2" steel	4 1/4" steel	32	2660	532	692	878	1064	1197	1410	1623	1835	2075	2288	2527	2793
		C-340	3/4" copper	4 1/4" alum.	40	3390	678	881	1119	1356	1525	1797	2068	2339	2644	2915	3220	3559
		C-440	1" copper	4 1/4" alum.	40	3590	718	934	1185	1436	1616	1903	2190	2477	2800	3087	3411	3770
C-540	1 1/4" copper	4 1/4" alum.	40	3520	704	915	1162	1408	1584	1866	2147	2429	2746	3027	3344	3696		

*Based on 65°F entering air temperature.

SLANT/FIN CORPORATION, Greenvale, NY 11548 • Phone: (516) 484-2600
 FAX: (516) 484-5921 • In Canada: Slant/Fin LTD/LTEE, Mississauga, Ontario
 www.slantfin.com

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RATINGS CHART – COMMERCIAL BASEBOARD

TBG SERIES

**RATINGS FOR
CONDENSING
BOILERS**

Cover Type	Enclosure Height	Element Type	Tube Size & Material	Fin Size & Material	Fins Per Foot	Steam 1 PSI* Btu/Hr. Per Foot	HOT WATER RATINGS* BTU/HR./FT. (Flow Rate 3 Ft./Sec.)											
							110°F	120°F	130°F	140°F	150°F	160°F	170°F	180°F	190°F	200°F	210°F	220°F
TBG-17	17"	S-532	1¼" steel	4¼" steel	32	1250	250	325	413	500	563	663	763	862	975	1075	1188	1313
		S-540	1¼" steel	4¼" steel	40	1344	269	349	444	538	605	712	820	927	1048	1156	1277	1411
		S-832	2" steel	4¼" steel	32	1201	240	312	396	480	540	637	733	829	937	1033	1141	1261
		C-340	¾" copper	4¼" alum.	40	1595	319	415	526	638	717	846	973	1101	1244	1371	1515	1675
		C-440	1" copper	4¼" alum.	40	1690	338	440	558	676	761	896	1031	1166	1318	1453	1606	1775
		C-540	1¼" copper	4¼" alum.	40	1656	331	431	546	662	745	878	1010	1143	1292	1424	1573	1739
TBG-24	24"	S-532	1¼" steel	4¼" steel	32	1460	292	380	482	584	657	774	891	1007	1139	1256	1387	1533
		S-540	1¼" steel	4¼" steel	40	1505	301	391	497	602	677	798	918	1038	1174	1294	1430	1580
		S-832	2" steel	4¼" steel	32	1345	269	350	444	538	605	713	820	928	1049	1157	1278	1412
		C-340	¾" copper	4¼" alum.	40	1749	360	468	594	720	810	953	1097	1241	1403	1547	1709	1888
		C-440	1" copper	4¼" alum.	40	1910	382	497	630	764	860	1012	1165	1318	1490	1643	1815	2006
		C-540	1¼" copper	4¼" alum.	40	1868	374	486	617	747	841	990	1139	1289	1457	1606	1775	1961
TBG-24 Two-tier element	24"	S-532	1¼" steel	4¼" steel	32	1980	396	515	653	792	891	1049	1208	1366	1544	1703	1881	2079
		S-540	1¼" steel	4¼" steel	40	2102	420	547	694	841	946	1114	1282	1450	1640	1808	1997	2207
		S-832	2" steel	4¼" steel	32	1890	378	492	624	756	851	1002	1153	1304	1474	1625	1796	1985
		C-340	¾" copper	4¼" alum.	40	2337	468	608	772	935	1052	1238	1425	1613	1823	2010	2221	2454
		C-440	1" copper	4¼" alum.	40	2480	496	645	818	992	1116	1314	1513	1711	1934	2133	2356	2604
		C-540	1¼" copper	4¼" alum.	40	2427	485	631	801	971	1092	1286	1480	1675	1893	2087	2306	2548

*Based on 65°F entering air temperature.