

# Burner Performance Table

Single Blower Models								
Unit Model	CFM Std. Air @ 70°	70° RISE	80° RISE	90° RISE	100° RISE	110° RISE	120° RISE	130° RISE
TMM 109	1600	142	159	175	191	206	221	235
	1900	169	189	208	227	245	262	279
	2200	195	219	241	263	284	304	323
	2600	231	258	285	311	335	359	382
	3000	266	298	329	358	387	414	440
TMM 112	3250	288	323	356	388	419	449	477
	3500	311	348	384	418	451	483	514
	3750	333	373	411	448	483	518	550
	4000	355	397	438	478	516	552	587
	4250	377	422	466	508	548	587	624
TMM 115	4500	399	447	493	537	580	621	661
	5000	444	497	548	597	644	690	734
	5500	488	546	603	657	709	759	807
	6000	532	596	658	717	773	828	881
TMM 118	6500	577	646	712	776	838	897	954
	7000	621	696	767	836	902	966	1027
	7500	665	745	822	896	967	1035	1101
	8000	710	795	877	955	1031	1104	1174
	8500	754	845	932	1015	1096	11733	1248
TMM 120	9000	798	894	986	1075	1160	1242	1321
	9500	843	944	1041	1135	1224	1311	1394
	10,000	887	994	1096	1194	1289	1380	1468
	10,500	932	1043	1151	1254	1353	1449	1541
	11,000	976	1093	1205	1314	1418	1518	1615
TMM 122	11,000	976	1093	1205	1314	1418	1518	1615
	12,000	1065	1192	1315	1433	1547	1656	1761
	13,000	1153	1292	1425	1553	1676	1794	1908
	14,000	1242	1391	1534	1672	1804	1932	2055
	15,000	1331	1490	1644	1791	1933	2070	2202
TMM 125	14,000	1242	1391	1534	1672	1804	1932	2055
	15,000	1331	1490	1644	1791	1933	2070	2202
	16,000	1419	1590	1753	1911	2062	2208	2349
	17,000	1508	1689	1863	2030	2191	2346	2495
	18,000	1597	1788	1973	2150	2320	2484	2642
TMM 130	20,000	1774	1987	2192	2388	2578	2760	2936
	22,000	1952	2186	2411	2627	2836	3036	3229
	24,000	2129	2385	2630	2866	3093	3312	3523
	26,000	2307	2583	2849	3105	3351	3588	3816
	28,000	2484	2782	3069	3344	3609	3864	4110
30,000	2661	2981	3288	3583	3867	4140	4404	

## SELECTION GUIDE

- Determine the temperature rise required through the heater by subtracting the winter design temperature from the desired indoor temperature.
- Select burner required.  

$$BTUH = \frac{SCFM \times 1.32605 \times 29.92 \times 0.24 \times 60 \times \text{Temperature Rise}}{.92 (460 + \text{Temperature Rise} + \text{Inlet Temperature})}$$

where

  - 1.32605 = density of air handled by the blower
  - 29.92 = barometric pressure at sea level
  - 0.24 = specific heat of the air handled by the blower
  - 60 = conversion for minutes to hour
  - 0.92 = average ratio of net and gross heating values of common fuel gases (92% sensible, 8% latent)
- Values shown in above MBH Input Tables are based on -40° F Inlet Temperature. MBH input shown on unit rating plate will be corrected for actual air density.
- Natural gas units are limited to 130° F temperature rise, propane units are limited to 100° F temperature rise.

# Burner Performance Table

Twin Blower Models								
Unit Model	CFM Std. Air @ 70°	70° RISE	80° RISE	90° RISE	100° RISE	110° RISE	120° RISE	130° RISE
TMM 215	9000	798	894	986	1075	1160	1242	1321
	9500	843	944	1041	1135	1224	1311	1394
	10,000	887	994	1096	1194	1289	1380	1468
	10,500	932	1043	1151	1254	1353	1449	1541
	11,000	976	1093	1205	1314	1418	1518	1615
	11,500	1020	1143	1260	1373	1482	1587	1688
	12,000	1065	1192	1315	1433	1547	1656	1761
TMM 218	13,000	1153	1292	1425	1553	1676	1794	1908
	14,000	1242	1391	1534	1672	1804	1932	2055
	15,000	1331	1490	1644	1791	1933	2070	2202
	16,000	1419	1590	1753	1911	2062	2208	2349
	17,000	1508	1689	1863	2030	2191	2346	2495
TMM 220	18,000	1597	1788	1973	2105	2320	2484	2642
	19,000	1686	1888	2082	2269	2449	2622	2789
	20,000	1774	1987	2192	2388	2578	2760	2936
	21,000	1863	2087	2301	2508	2707	2898	3082
	22,000	1952	2186	2411	2627	2836	3036	3229
	23,000	2040	2285	2521	2747	2964	3174	3376
	24,000	2129	2385	2630	2866	3093	3312	3523
	25,000	2218	2484	2740	2986	3222	3450	3670
	26,000	2307	2583	2849	3105	3351	3588	3816
TMM 222	25,000	2218	2484	2740	2986	3222	3450	3670
	26,000	2307	2583	2849	3105	3351	3588	3816
	27,000	2395	2683	2959	3224	3480	3726	3963
	28,000	2484	2782	3069	3344	3609	3864	4110
	29,000	2573	2881	3178	3463	3738	4002	4257
	30,000	2661	2981	3288	3583	3867	4140	4404
	31,000	2750	3080	3397	3702	3996	4278	4550
TMM 225	30,000	2661	2981	3288	3583	3867	4140	4404
	32,000	2839	3180	3507	3822	4124	4416	4697
	34,000	3016	3378	3726	4060	4382	4692	4991
	36,000	3194	3577	3945	4299	4640	4968	5284
	38,000	3371	3776	4164	4538	4898	5244	5578
	40,000	3549	3974	4384	4777	5156	5520	5871
	42,000	3726	4173	4603	5016	5413	5796	6165
	44,000	3903	4372	4822	5255	5671	6072	6458
	46,000	4081	4571	5041	5494	5929	6348	6752
TMM 230	44,000	3903	4372	4822	5255	5671	6072	6458
	48,000	4258	4769	5260	5732	6187	6624	7046
	52,000	4613	5167	5699	6210	6702	7176	7633
	56,000	4968	5564	6137	6688	7218	7728	8220
	60,000	5323	5962	6575	7165	7733	8280	8807
	64,000	5678	6359	7014	7643	8249	8832	9394