

Burner Performance Table

All Models								
Unit Size	SCFM	70° Rise	80° Rise	90° Rise	100° Rise	110° Rise	120° Rise	130° Rise
Model 035	2000	177	199	219	239	258	276	294
	2250	200	224	247	269	290	311	330
	2500	222	248	274	299	322	345	367
	2750	244	273	301	328	354	380	404
	3000	266	298	329	358	387	414	440
	3250	288	323	356	388	419	449	477
	3500	311	348	384	418	451	483	514
Model 070	3750	333	373	411	448	483	518	550
	4000	355	397	438	478	516	552	587
	4250	377	422	466	508	548	587	624
	4500	399	447	493	537	580	621	661
	4750	421	472	521	567	612	656	697
	5000	444	497	548	597	644	690	734
	5250	466	522	575	627	677	725	771
	5500	488	546	603	657	709	759	807
	5750	510	571	630	687	741	794	844
	6000	532	596	658	717	773	828	881
	6250	554	621	685	746	806	863	917
	6500	577	646	712	776	838	897	954
	6750	599	671	740	806	870	932	991
	7000	621	696	767	836	902	966	1027
Model 110	7250	643	720	795	866	934	1001	1064
	7500	665	745	822	896	967	1035	1101
	7750	688	770	849	926	999	1070	1138
	8000	710	795	877	955	1031	1104	1174
	8250	732	820	904	985	1063	1139	1211
	8500	754	845	932	1015	1096	1173	1248
	8750	776	869	959	1045	1128	1208	1284
	9000	798	894	986	1075	1160	1242	1321
	9250	821	919	1014	1105	1192	1277	1358
	9500	843	944	1041	1135	1224	1311	1394
	9750	865	969	1068	1164	1257	1346	1431
	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	
Model 160	11,500	1020	1143	1260	1373	1482	1587	1688
	12,000	1065	1192	1315	1433	1547	1656	1761
	12,500	1109	1242	1370	1493	1611	1725	1835
	13,000	1153	1292	1425	1553	1676	1794	1908
	13,500	1198	1341	1479	1612	1740	1863	—
	14,000	1242	1391	1534	1672	1804	1932	—
	14,500	1286	1441	1589	1732	1869	—	—
	15,000	1331	1490	1644	1791	1933	—	—
	15,500	1375	1540	1699	1851	—	—	—
	16,000	1419	1590	1753	1911	—	—	—

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 Table 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.