

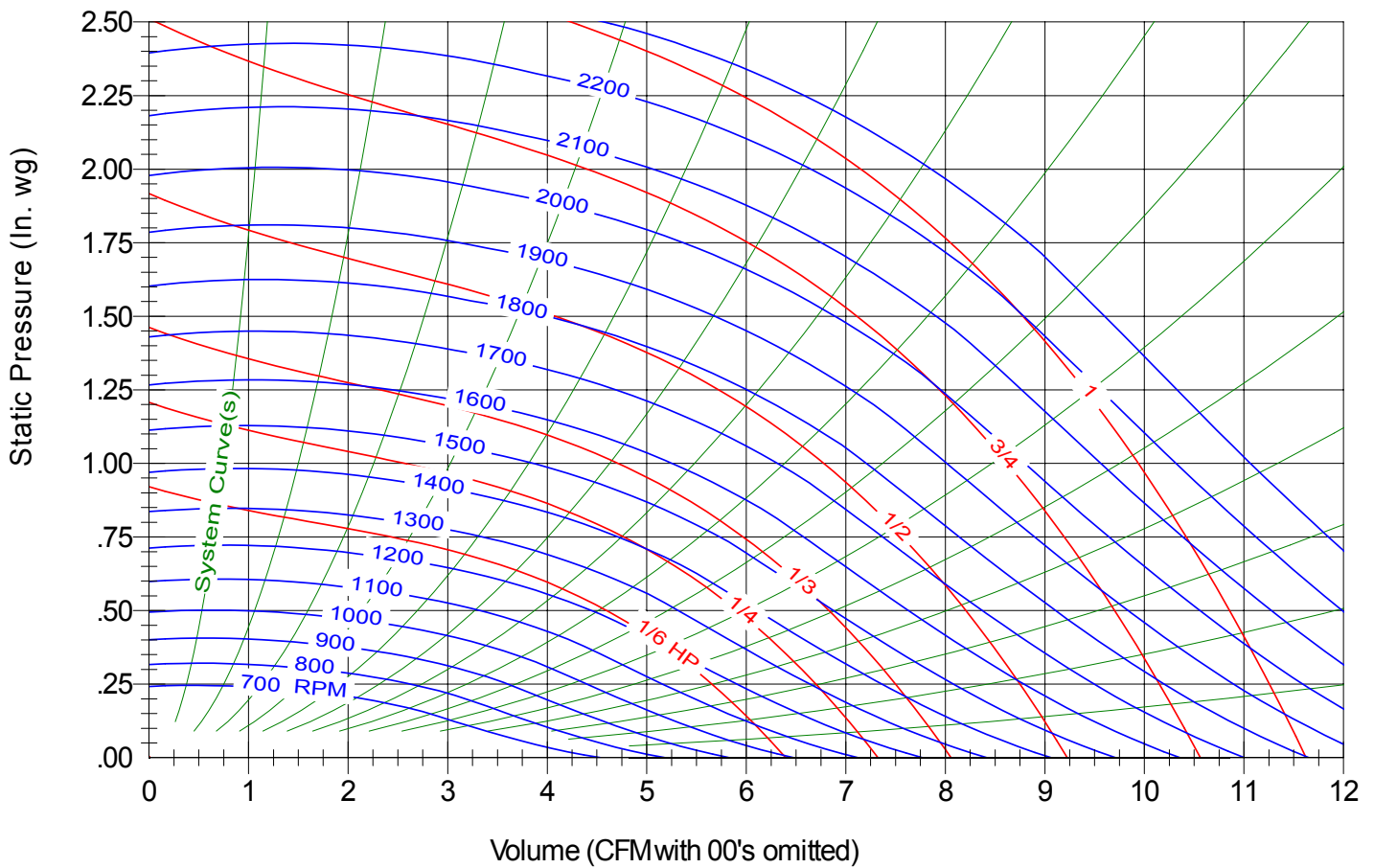
407

Max. 1 HP, 182T Frame, 2800 RPM
3/4" Shaft

Wheel Dia, 8.06

Tip Speed: 2.07 X RPM = FPM

CFM	OUTLET VELOCITY FPM	1/2" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		4" SP		5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
200	500	577	0.02	745	0.03	1007	0.08	1218	0.13	1399	0.20	1707	0.35	1969	0.54	2202	0.75
300	750	691	0.03	833	0.05	1066	0.10	1261	0.15	1432	0.22	1727	0.38	1982	0.57	2209	0.78
400	1000	825	0.06	947	0.08	1153	0.13	1331	0.19	1490	0.26	1770	0.42	2015	0.61	2234	0.83
500	1250	963	0.09	1078	0.12	1260	0.17	1422	0.24	1569	0.31	1833	0.48	2066	0.68	2277	0.90
600	1500	1104	0.15	1213	0.18	1382	0.24	1529	0.30	1665	0.38	1911	0.56	2132	0.76	-	-
700	1750	1245	0.24	1351	0.26	1515	0.33	1649	0.40	1774	0.47	2004	0.66	2213	0.87	-	-
800	2000	1386	0.35	1493	0.36	1650	0.44	1778	0.52	1894	0.60	2109	0.78	-	-	-	-
900	2250	1530	0.50	1633	0.51	1786	0.58	1914	0.67	2022	0.76	2223	0.95	-	-	-	-
1000	2500	1675	0.67	1774	0.70	1925	0.76	2048	0.85	2157	0.95	-	-	-	-	-	-



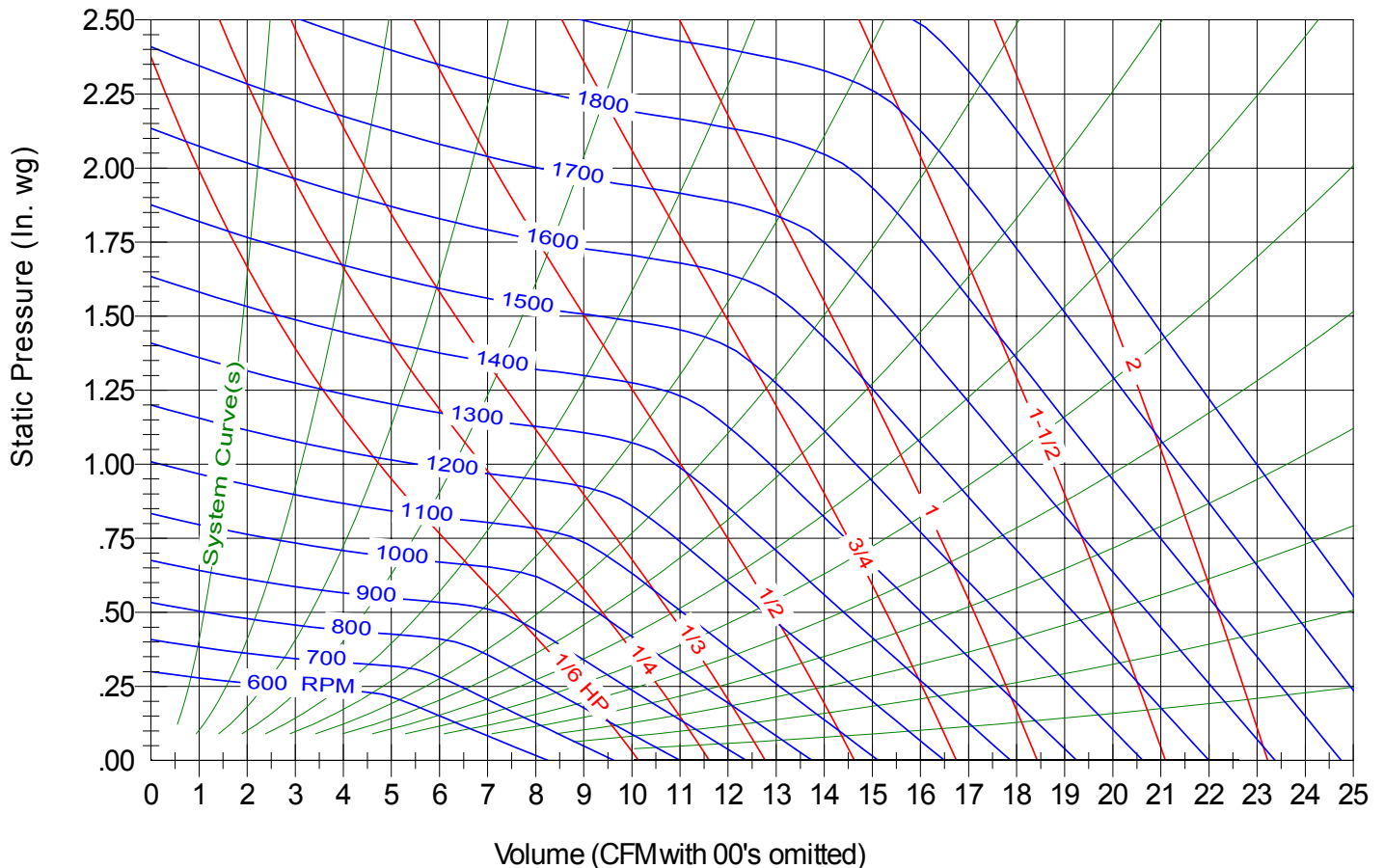
Power rating bhp does not include transmission losses.
600 Series performance certified is for installation Type B - Free inlet, Ducted outlet.
Performance ratings do not include the effects of appurtenances (accessories).

409

Max. 2 HP, 213T Frame, 2800 RPM
3/4" Shaft, Wheel Dia, 9.81

Tip Speed: 2.47 X RPM = FPM

CFM	OUTLET VELOCITY FPM	1/2" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		4" SP		5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
300	458	437	0.01	603	0.03	834	0.06	1010	0.09	1158	0.13	1406	0.21	1614	0.30	1797	0.39
400	611	465	0.02	615	0.04	850	0.08	1027	0.12	1176	0.16	1424	0.26	1633	0.36	1817	0.46
500	764	520	0.04	633	0.05	863	0.09	1042	0.14	1192	0.20	1442	0.30	1652	0.42	1836	0.54
600	917	577	0.05	675	0.07	874	0.11	1055	0.17	1206	0.23	1458	0.35	1669	0.48	1854	0.62
700	1070	638	0.08	731	0.10	893	0.14	1066	0.20	1219	0.26	1473	0.40	1685	0.55	1870	0.70
800	1223	699	0.11	788	0.13	930	0.18	1082	0.24	1230	0.30	1486	0.45	1699	0.62	1886	0.78
900	1376	762	0.15	848	0.18	981	0.23	1106	0.28	1245	0.35	1498	0.51	1713	0.68	1901	0.86
1000	1529	827	0.20	908	0.23	1040	0.29	1149	0.34	1266	0.41	1508	0.56	1725	0.75	1914	0.95
1100	1682	892	0.25	969	0.29	1096	0.35	1201	0.42	1302	0.48	1524	0.64	1736	0.82	1927	1.03
1200	1834	958	0.32	1032	0.36	1155	0.43	1258	0.50	1349	0.57	1545	0.73	1748	0.91	1938	1.12
1300	1987	1025	0.40	1096	0.44	1215	0.52	1316	0.60	1403	0.67	1574	0.83	1766	1.02	1948	1.21
1400	2140	1093	0.49	1160	0.54	1275	0.63	1373	0.71	1462	0.79	1618	0.96	1787	1.15	1964	1.35
1500	2293	1161	0.59	1225	0.65	1337	0.75	1433	0.83	1519	0.92	1668	1.09	1818	1.28	1984	1.50
1600	2446	1230	0.71	1291	0.77	1399	0.88	1493	0.97	1576	1.07	1723	1.25	1861	1.44	2006	1.66
1700	2599	1299	0.84	1357	0.90	1461	1.02	1553	1.13	1635	1.23	1781	1.42	1909	1.62	2041	1.84
1800	2752	1369	0.99	1424	1.06	1525	1.19	1614	1.30	1695	1.41	1839	1.61	1963	1.82	-	-
1900	2905	1438	1.15	1492	1.23	1589	1.36	1676	1.49	1755	1.61	1896	1.83	-	-	-	-
2000	3058	1508	1.33	1559	1.41	1653	1.56	1738	1.70	1816	1.82	-	-	-	-	-	-

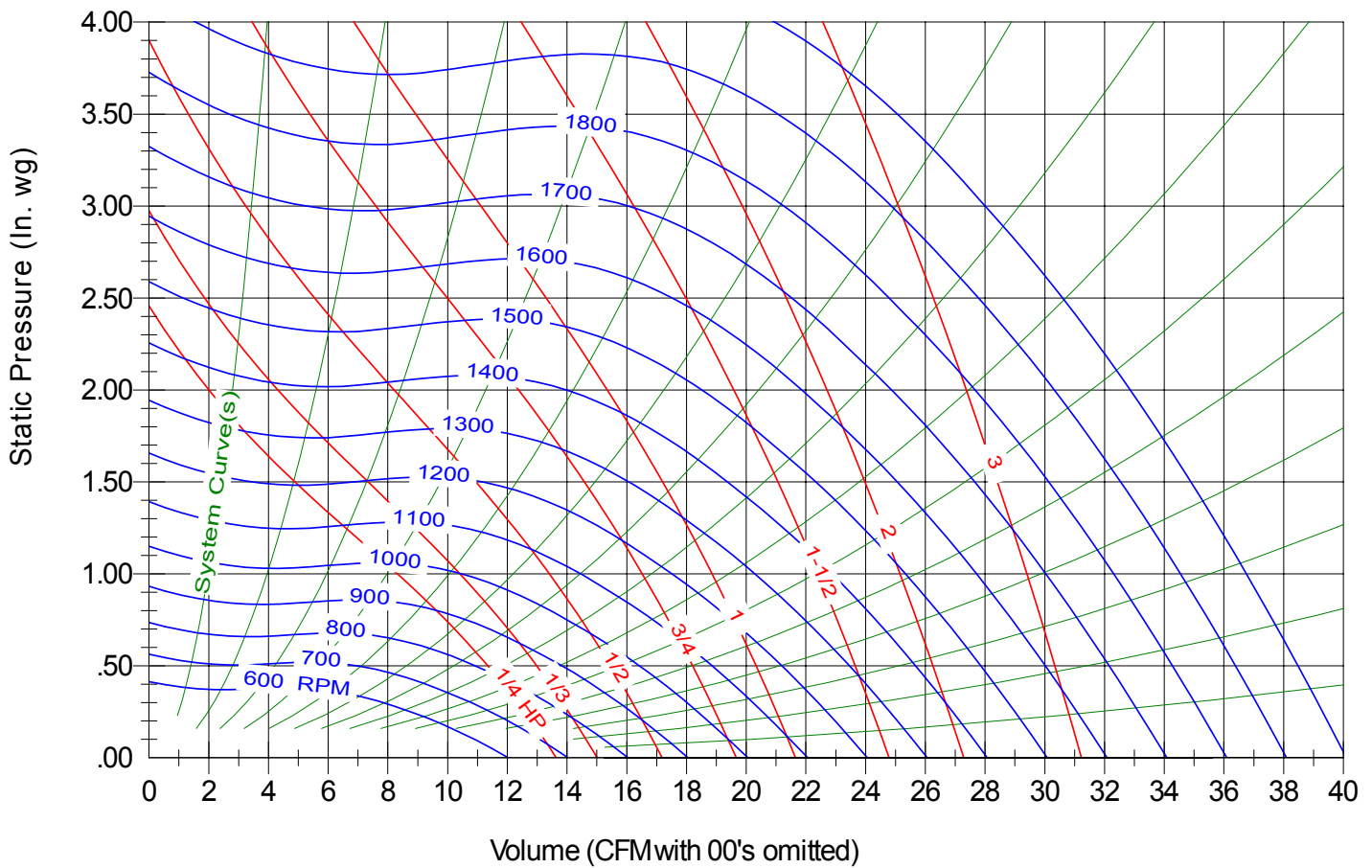


Power rating bhp does not include transmission losses.
600 Series performance certified is for installation Type B - Free inlet, Ducted outlet.
Performance ratings do not include the effects of appurtenances (accessories).

410 & 610

Max. 2 HP, 184T Frame, 2000 RPM
 3/4" Shaft Wheel Dia, 11.13 Tip Speed: 2.83 X RPM = FPM

CFM	OUTLET VELOCITY FPM	1/8" SP		1/4" SP		1/2" SP		1" SP		1-1/2" SP		2" SP		2.5" SP		3" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
500	688	385	0.03	495	0.04	688	0.07	984	0.16	1207	0.25	1392	0.36	1553	0.48	1698	0.61
700	964	453	0.05	542	0.07	700	0.11	973	0.20	1199	0.32	1392	0.44	1558	0.56	1707	0.71
900	1240	532	0.10	608	0.12	742	0.17	978	0.26	1190	0.39	1380	0.54	1548	0.69	1702	0.84
1100	1515	618	0.16	683	0.19	802	0.25	1009	0.37	1198	0.48	1374	0.63	1538	0.80	1690	0.98
1300	1791	707	0.25	764	0.28	870	0.36	1056	0.50	1226	0.64	1386	0.77	1539	0.93	1682	1.12
1500	2066	799	0.37	849	0.41	944	0.49	1116	0.66	1270	0.82	1416	0.98	1555	1.13	1690	1.29
1700	2342	893	0.52	938	0.57	1023	0.66	1182	0.86	1324	1.04	1458	1.22	1587	1.40	1712	1.58
1900	2617	988	0.72	1028	0.77	1106	0.88	1252	1.09	1387	1.30	1511	1.50	1630	1.70	1746	1.91
2100	2893	1084	0.95	1121	1.01	1191	1.13	1327	1.37	1454	1.60	1571	1.83	- -	- -	- -	- -
2300	3169	1181	1.24	1214	1.30	1279	1.43	1405	1.69	1524	1.95	- -	- -	- -	- -	- -	- -
2500	3444	1278	1.58	1309	1.65	1369	1.79	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -



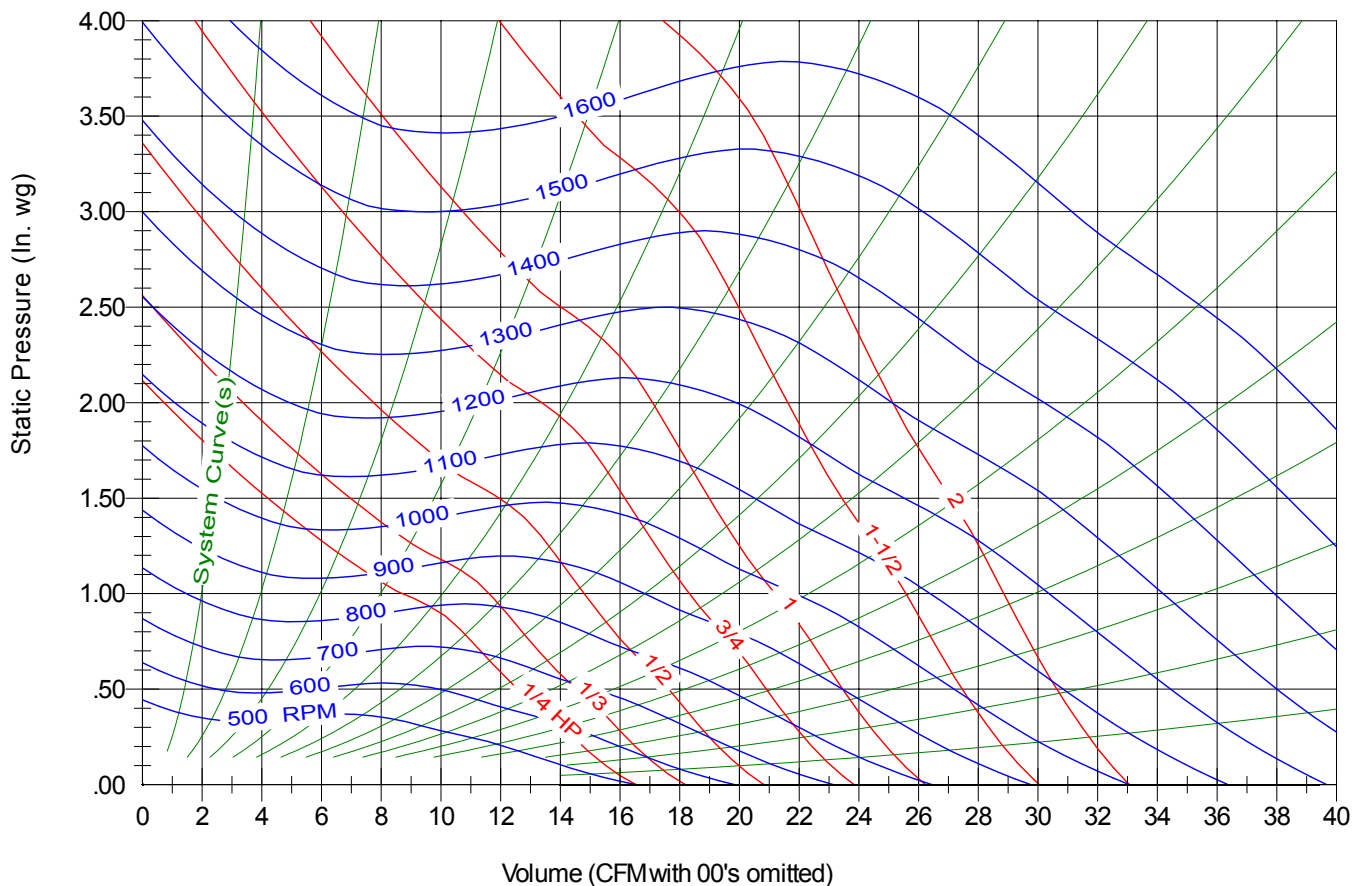
Power rating bhp does not include transmission losses.
 600 Series performance certified is for installation Type B - Free inlet, Ducted outlet.
 Performance ratings do not include the effects of appurtenances (accessories).

412 & 612

Max. 2 HP, 184T Frame, 1800 RPM
3/4" Shaft Wheel Dia, 12.87

Tip Speed: 3.37 X RPM = FPM

CFM	OUTLET VELOCITY FPM	1/8" SP		1/4" SP		1/2" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
750	874	348	0.05	432	0.07	582	0.11	855	0.22	1059	0.35	1224	0.49	1366	0.64	1492	0.80
1000	1166	405	0.09	481	0.12	600	0.17	827	0.28	1039	0.44	1214	0.60	1366	0.78	1499	0.96
1250	1457	470	0.15	533	0.18	648	0.25	829	0.37	1011	0.52	1188	0.72	1345	0.92	1485	1.13
1500	1749	538	0.24	595	0.28	697	0.35	864	0.51	1013	0.66	1164	0.84	1316	1.05	1459	1.30
1750	2041	607	0.36	660	0.41	750	0.49	913	0.69	1043	0.86	1172	1.04	1299	1.23	1431	1.46
2000	2332	678	0.52	728	0.57	810	0.67	963	0.89	1089	1.10	1201	1.30	1314	1.50	1426	1.71
2250	2624	749	0.71	796	0.78	875	0.90	1012	1.13	1141	1.39	1246	1.62	1345	1.84	-	-
2500	2915	820	0.96	866	1.04	941	1.18	1066	1.42	1189	1.70	1297	1.98	-	-	-	-
2750	3207	891	1.26	936	1.35	1008	1.51	1127	1.78	-	-	-	-	-	-	-	-
3000	3499	963	1.61	1007	1.71	1076	1.89	-	-	-	-	-	-	-	-	-	-



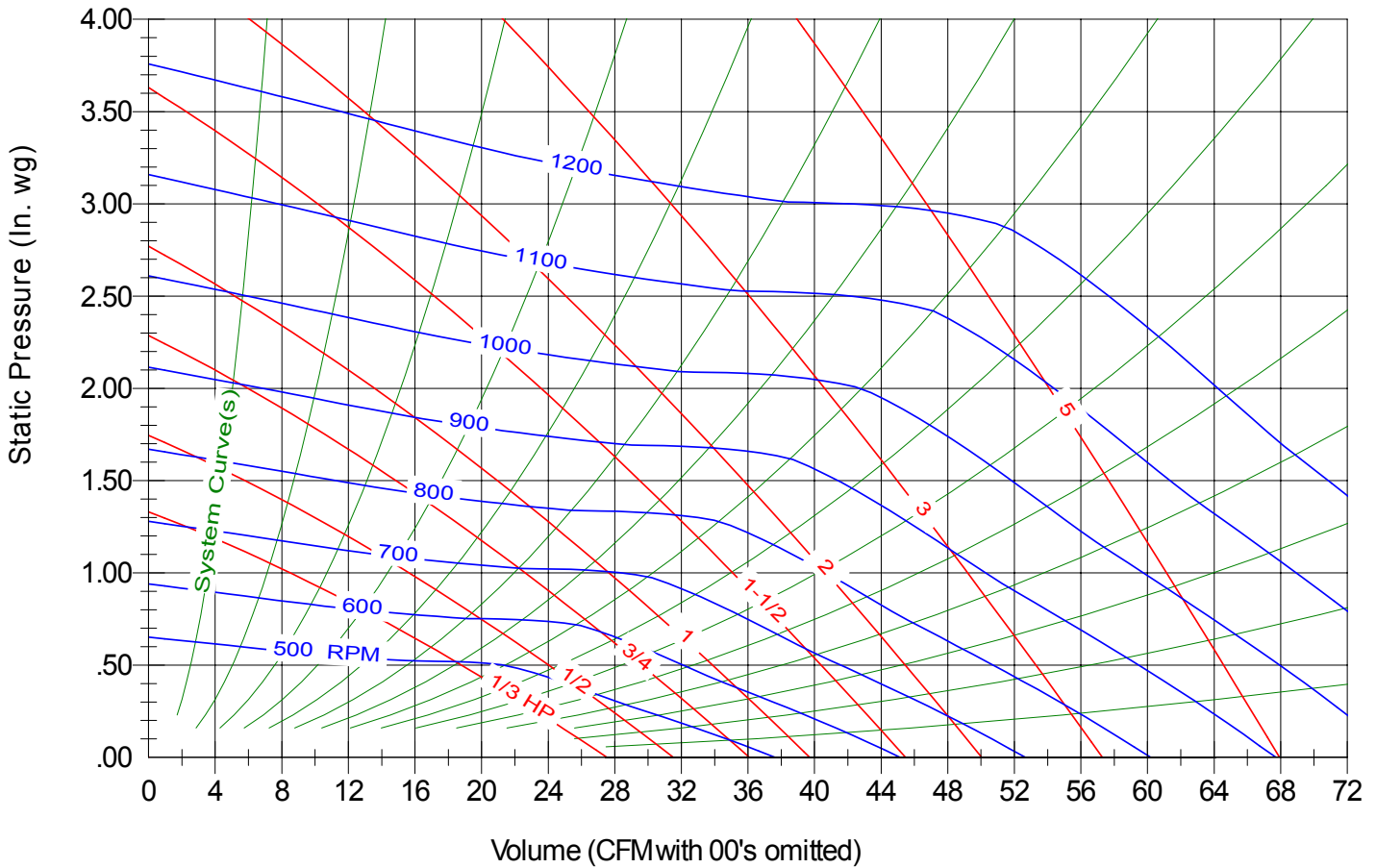
Power rating bhp does not include transmission losses.
600 Series performance certified is for installation Type B - Free inlet, Ducted outlet.
Performance ratings do not include the effects of appurtenances (accessories).



415 & 615

415 - Max. 3 HP, 213T Frame, 1500 RPM
 615 - Max. 5 HP, 215T Frame, 1500 RPM
 1" Shaft Wheel Dia, 15.50 Tip Speed: 4.03 X RPM = FPM

CFM	OUTLET VELOCITY FPM	1/8" SP		1/4" SP		1/2" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	677	249	0.04	343	0.08	472	0.18	654	0.39	794	0.63	911	0.89	1015	1.17	1108	1.47
1500	1016	287	0.10	353	0.14	487	0.25	670	0.53	810	0.83	928	1.15	1032	1.49	1125	1.84
2000	1355	342	0.19	393	0.24	498	0.36	686	0.67	826	1.03	944	1.42	1048	1.82	1142	2.24
2500	1694	397	0.33	447	0.40	526	0.52	698	0.86	841	1.26	960	1.70	1064	2.17	1158	2.65
3000	2032	455	0.53	502	0.62	573	0.77	707	1.08	854	1.54	975	2.00	1079	2.53	1174	3.08
3500	2371	515	0.80	558	0.91	628	1.10	740	1.44	863	1.87	986	2.40	1094	2.91	1189	3.52
4000	2710	576	1.15	615	1.28	684	1.52	786	1.91	885	2.32	996	2.85	1105	3.46	1202	4.04
4500	3049	638	1.59	674	1.75	738	2.02	838	2.48	925	2.93	1013	3.39	1114	4.01	1212	4.70
5000	3388	701	2.15	734	2.32	794	2.64	895	3.18	973	3.67	1051	4.17	1131	4.69	-	-
5500	3727	764	2.82	795	3.01	852	3.37	950	4.01	1025	4.54	-	-	-	-	-	-
6000	4065	828	3.61	857	3.83	910	4.23	1004	4.95	-	-	-	-	-	-	-	-
6500	4404	892	4.55	919	4.79	-	-	-	-	-	-	-	-	-	-	-	-

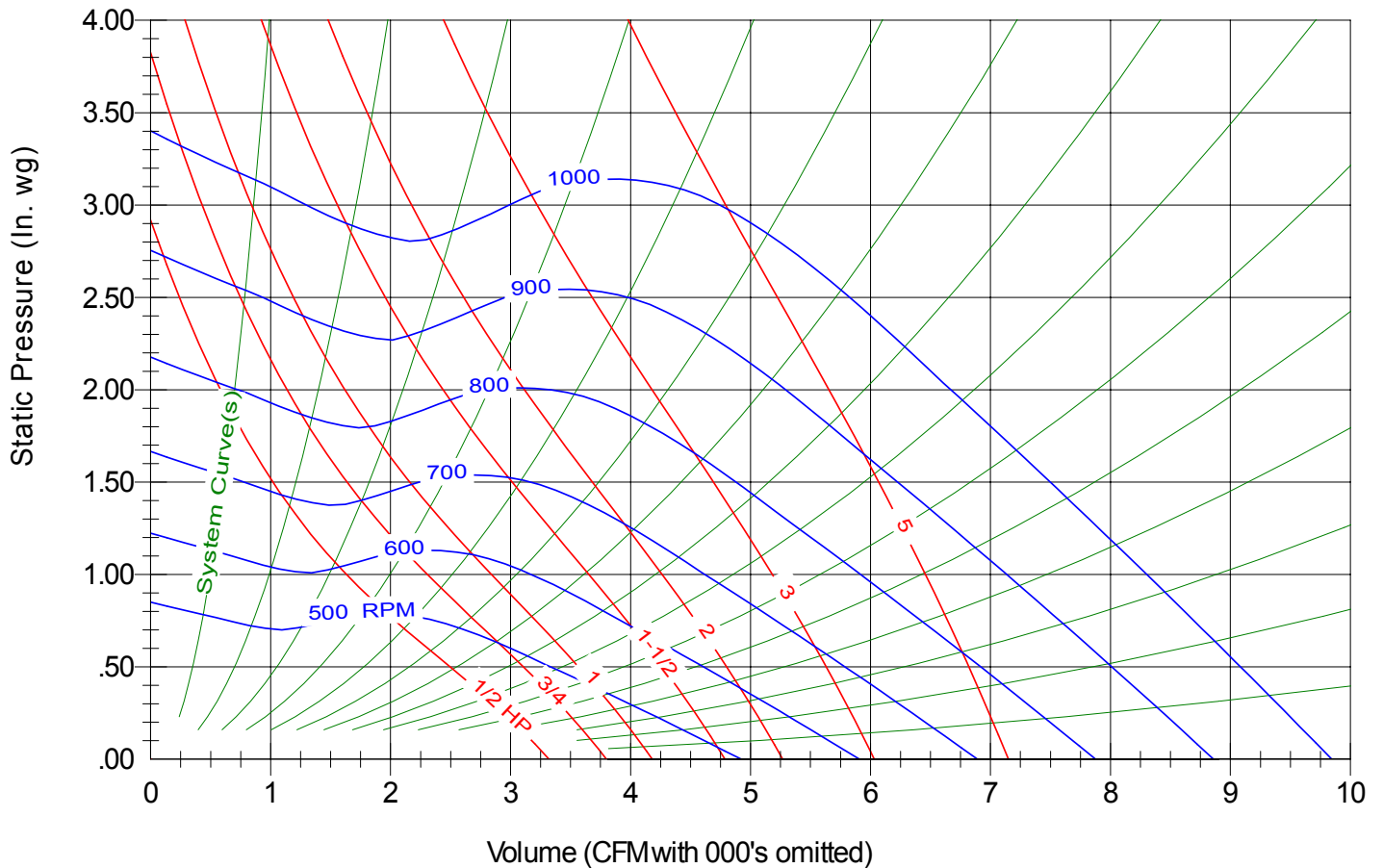


Power rating bhp does not include transmission losses.
 600 Series performance certified is for installation Type B - Free inlet, Ducted outlet.
 Performance ratings do not include the effects of appurtenances (accessories).

418 & 618

418 - Max. 5 HP, 184T Frame, 1200 RPM
 618 - Max. 5 HP, 215T Frame, 1200 RPM
 1" Shaft Wheel Dia, 18.50 Tip Speed: 4.80 X RPM = FPM

CFM	OUTLET VELOCITY FPM	1/8" SP		1/4" SP		1/2" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	1089	275	0.17	329	0.23	409	0.33	565	0.60	722	0.98	844	1.34	941	1.69	1024	2.02
2500	1362	316	0.29	364	0.36	444	0.51	561	0.75	691	1.13	821	1.58	936	2.06	1033	2.51
3000	1634	359	0.47	403	0.55	477	0.73	591	1.05	687	1.35	796	1.80	898	2.27	1010	2.88
3500	1907	404	0.70	444	0.81	512	1.01	625	1.42	710	1.75	793	2.11	888	2.62	978	3.16
4000	2179	449	1.00	487	1.13	551	1.36	659	1.84	746	2.28	817	2.64	888	3.01	972	3.60
4500	2452	496	1.38	531	1.54	591	1.80	692	2.33	780	2.86	853	3.33	916	3.74	975	4.11
5000	2724	543	1.85	575	2.03	633	2.34	728	2.92	813	3.52	887	4.09	952	4.60	-	-
5500	2997	591	2.43	621	2.62	675	2.98	767	3.62	847	4.26	921	4.92	-	-	-	-
6000	3269	639	3.11	667	3.33	718	3.72	807	4.42	-	-	-	-	-	-	-	-
6500	3542	688	3.91	714	4.15	763	4.59	-	-	-	-	-	-	-	-	-	-



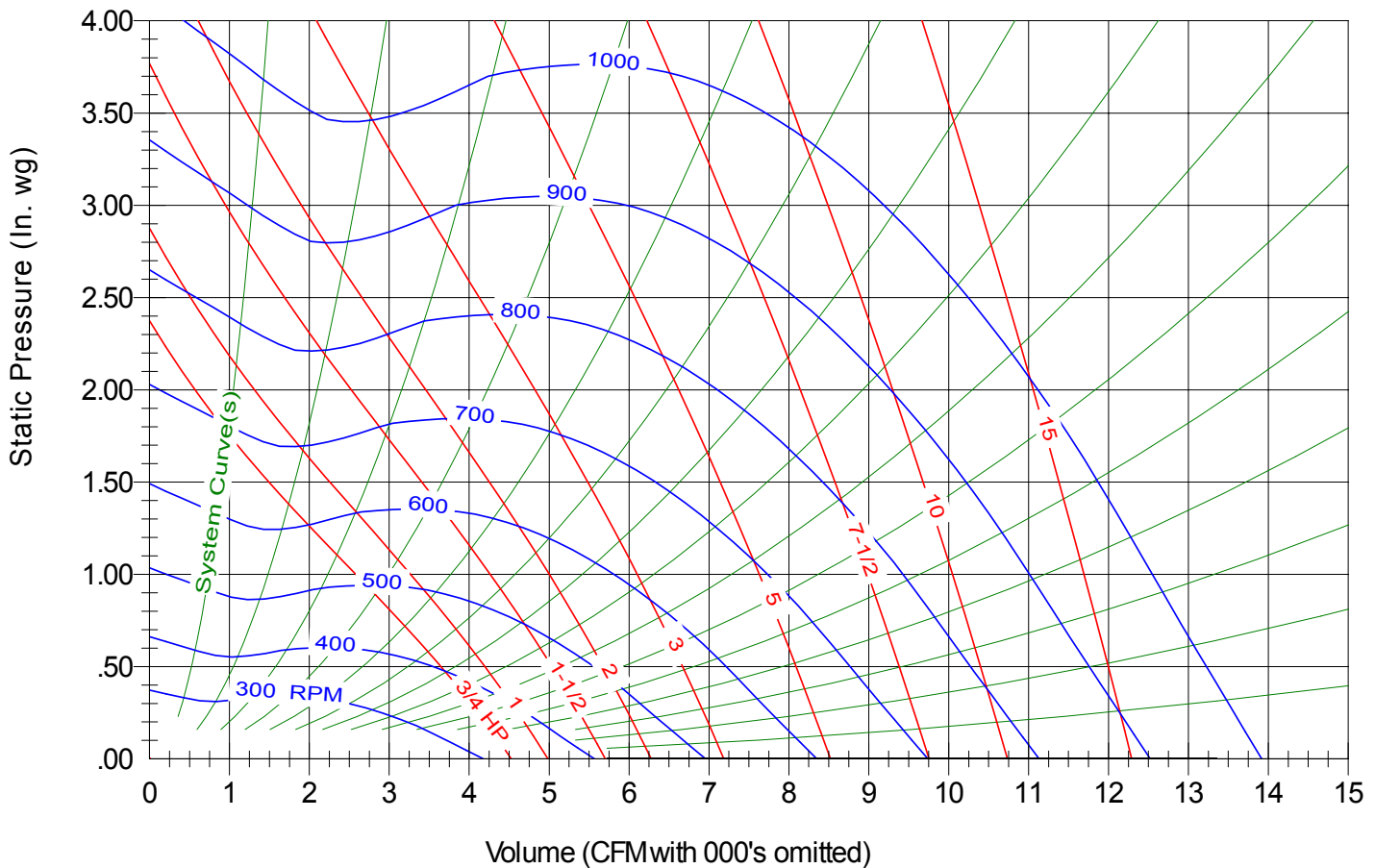
Power rating bhp does not include transmission losses.
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 Performance ratings do not include the effects of appurtenances (accessories).



420 & 620

420 - Max. 7-1/2 HP, 256T Frame, 1250 RPM
 620 - Max. 10 HP, 254T Frame, 1250 RPM
 1-3/16" Shaft Wheel Dia, 20.44 Tip Speed: 5.35 X RPM = FPM

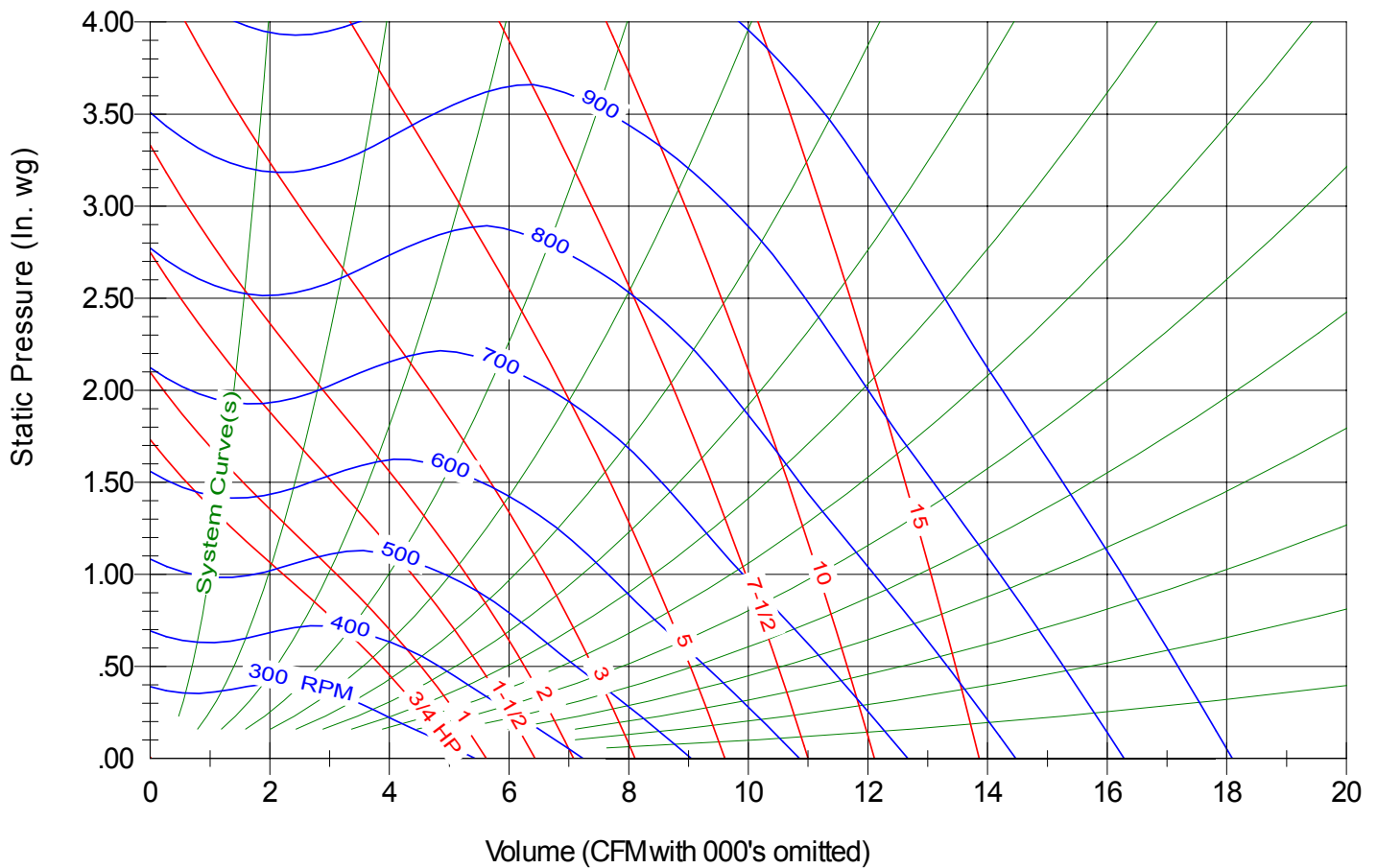
CFM	OUTLET VELOCITY FPM	1/8" SP		1/2" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	738	209	0.11	365	0.30	530	0.62	661	0.99	763	1.35	851	1.71	927	2.09	1058	2.95
2500	923	235	0.19	369	0.39	517	0.73	647	1.15	760	1.61	853	2.07	935	2.52	1076	3.42
3000	1108	263	0.29	381	0.52	517	0.90	633	1.32	741	1.79	844	2.37	932	2.92	1080	4.01
3500	1292	293	0.43	398	0.70	521	1.08	633	1.56	731	2.06	820	2.55	916	3.22	1075	4.53
4000	1477	325	0.61	419	0.91	532	1.33	635	1.82	731	2.38	817	2.94	897	3.51	1060	4.94
4500	1662	357	0.84	443	1.17	546	1.64	642	2.13	733	2.72	817	3.34	895	3.98	1036	5.25
5000	1847	391	1.13	469	1.50	564	2.01	654	2.54	738	3.08	819	3.77	895	4.47	1034	5.88
5500	2031	424	1.47	497	1.88	585	2.43	669	3.00	748	3.60	824	4.22	897	4.98	1033	6.52
6000	2216	458	1.88	525	2.34	609	2.91	687	3.54	761	4.17	833	4.82	902	5.52	1034	7.18
6500	2401	492	2.36	555	2.87	634	3.47	707	4.15	777	4.82	845	5.52	910	6.23	1037	7.88
7000	2585	527	2.92	586	3.46	660	4.13	729	4.83	796	5.56	860	6.29	923	7.05	1042	8.61
7500	2770	561	3.57	617	4.14	687	4.88	753	5.58	816	6.37	877	7.16	937	7.95	-	-
8000	2955	596	4.30	649	4.91	715	5.71	778	6.44	838	7.27	896	8.11	953	8.94	-	-
8500	3139	630	5.13	682	5.78	744	6.65	804	7.43	861	8.26	917	9.16	-	-	-	-
9000	3324	665	6.06	715	6.75	774	7.68	831	8.53	886	9.35	-	-	-	-	-	-
9500	3509	700	7.10	748	7.82	804	8.81	859	9.73	-	-	-	-	-	-	-	-
10000	3694	735	8.25	782	9.01	-	-	-	-	-	-	-	-	-	-	-	-



Power rating bhp does not include transmission losses.
 600 Series performance certified is for installation Type B - Free inlet, Ducted outlet.
 Performance ratings do not include the effects of appurtenances (accessories).

422 & 622 1-3/16" Shaft 422 - Max. 7-1/2 HP, 256T Frame, 1200 RPM
 622 - Max. 10 HP, 254T Frame, 1200 RPM
 Wheel Dia, 22.12 Tip Speed: 5.79 X RPM = FPM

CFM	OUTLET VELOCITY FPM	1/8" SP		1/2" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	925	222	0.24	342	0.50	474	0.93	592	1.47	696	2.06	786	2.70	867	3.41	1007	4.87
3500	1080	244	0.34	354	0.64	471	1.08	583	1.65	683	2.27	774	2.95	856	3.69	1000	5.27
4000	1234	267	0.47	369	0.81	479	1.31	577	1.83	674	2.52	762	3.23	843	3.97	990	5.64
4500	1388	291	0.64	386	1.01	489	1.56	580	2.13	667	2.77	753	3.54	833	4.33	977	6.01
5000	1542	316	0.84	404	1.26	502	1.84	588	2.47	667	3.11	746	3.85	824	4.70	965	6.48
5500	1697	341	1.09	424	1.55	517	2.17	599	2.86	674	3.55	745	4.25	817	5.07	956	6.97
6000	1851	366	1.38	444	1.89	533	2.53	611	3.28	684	4.04	751	4.78	816	5.56	948	7.46
6500	2005	392	1.72	466	2.28	551	2.97	626	3.74	695	4.56	760	5.38	821	6.19	942	7.96
7000	2160	417	2.11	488	2.73	569	3.49	642	4.26	708	5.13	771	6.01	830	6.89	943	8.67
7500	2314	443	2.55	511	3.23	588	4.05	659	4.84	722	5.76	783	6.69	841	7.65	948	9.52
8000	2468	469	3.06	534	3.79	608	4.68	676	5.52	738	6.44	796	7.43	852	8.44	-	-
8500	2622	495	3.64	558	4.42	629	5.38	695	6.29	755	7.19	811	8.23	865	9.29	-	-
9000	2777	522	4.28	582	5.12	650	6.14	714	7.12	773	8.04	827	9.10	-	-	-	-
9500	2931	548	4.99	607	5.90	672	6.98	733	8.03	790	9.02	-	-	-	-	-	-
10000	3085	575	5.79	632	6.75	695	7.90	753	9.01	-	-	-	-	-	-	-	-
10500	3240	601	6.66	657	7.69	717	8.90	-	-	-	-	-	-	-	-	-	-
11000	3394	628	7.62	683	8.72	741	9.99	-	-	-	-	-	-	-	-	-	-
11500	3548	655	8.67	708	9.83	-	-	-	-	-	-	-	-	-	-	-	-
12000	3702	682	9.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-

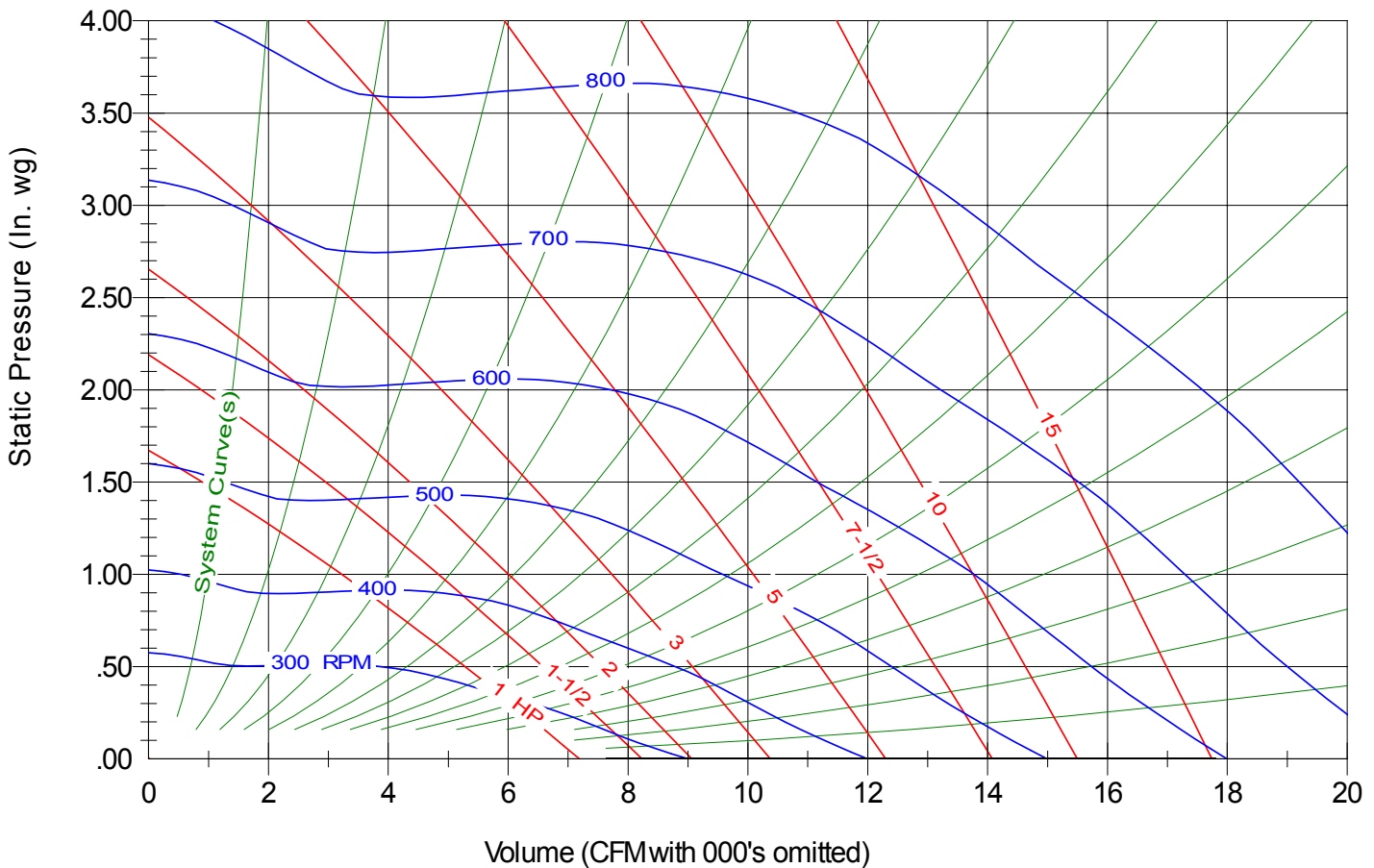


Power rating bhp does not include transmission losses.
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 Performance ratings do not include the effects of appurtenances (accessories).

425 & 625

420 - Max. 10 HP, 256T Frame, 1000 RPM
 625 - Max. 10 HP, 254T Frame, 1000 RPM
 1-3/16" Shaft Wheel Dia, 25.25 Tip Speed: 6.61 X RPM = FPM

CFM	OUTLET VELOCITY FPM	1/8" SP		1/2" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	1174	217	0.53	316	0.86	421	1.52	513	2.33	594	3.17	665	4.02	730	4.92	845	6.93
5500	1291	230	0.67	325	1.06	425	1.67	513	2.52	593	3.44	665	4.37	729	5.31	844	7.35
6000	1408	244	0.83	336	1.28	430	1.85	515	2.73	592	3.70	664	4.70	728	5.72	842	7.79
6500	1526	258	1.01	348	1.53	437	2.04	519	2.96	592	3.96	662	5.03	727	6.12	841	8.34
7000	1643	272	1.21	359	1.81	445	2.39	523	3.21	595	4.25	661	5.36	726	6.52	841	8.88
7500	1761	287	1.43	371	2.13	454	2.77	529	3.48	599	4.55	663	5.70	725	6.91	840	9.42
8000	1878	301	1.69	383	2.48	464	3.18	536	3.78	603	4.88	667	6.07	726	7.31	838	9.95
8500	1995	316	1.97	395	2.86	476	3.63	544	4.30	609	5.24	670	6.46	728	7.74	-	-
9000	2113	331	2.29	407	3.28	487	4.11	553	4.86	615	5.61	675	6.87	732	8.19	-	-
9500	2230	347	2.64	420	3.73	499	4.66	563	5.46	623	6.18	681	7.31	736	8.67	-	-
10000	2348	362	3.03	433	4.23	510	5.25	573	6.10	631	6.90	687	7.79	741	9.18	-	-
10500	2465	377	3.46	447	4.77	522	5.88	584	6.79	640	7.65	694	8.43	747	9.72	-	-
11000	2582	393	3.92	460	5.35	533	6.56	596	7.52	650	8.46	702	9.31	-	-	-	-
11500	2700	409	4.43	474	5.99	546	7.28	608	8.33	661	9.31	-	-	-	-	-	-
12000	2817	424	4.99	488	6.66	558	8.05	619	9.20	-	-	-	-	-	-	-	-
12500	2935	440	5.59	502	7.33	570	8.88	-	-	-	-	-	-	-	-	-	-
13000	3052	456	6.23	516	8.05	583	9.75	-	-	-	-	-	-	-	-	-	-
13500	3169	472	6.93	530	8.82	-	-	-	-	-	-	-	-	-	-	-	-
14000	3287	488	7.68	544	9.64	-	-	-	-	-	-	-	-	-	-	-	-
14500	3404	504	8.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15000	3522	520	9.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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