

PEERLESS
BLOWERS

Plenum Fans



Your Clean Air Source!

PEERLESS BLOWERS

PEERLESS BLOWERS PLENUM FANS

HIGH QUALITY
HIGH EFFICIENCY
VERSATILITY

TYPICAL INDUSTRIES PEERLESS BLOWERS
HAS SERVED FOR MORE THAN 95 YEARS

HVAC	Paint
Chemical	Clothing
Leather	Steel
Aviation	Plastic
Automotive	Food
Textile	Paper



Peerless Blowers Plenum Fans are designed to operate inside field erected or factory built air handling units. The fan pressurizes the air plenum in which the fan operates. This allows air ducts in any direction to be directly connected to the air handling unit enclosure. The design saves space by eliminating the fan housing and ductwork transition to the plenum.

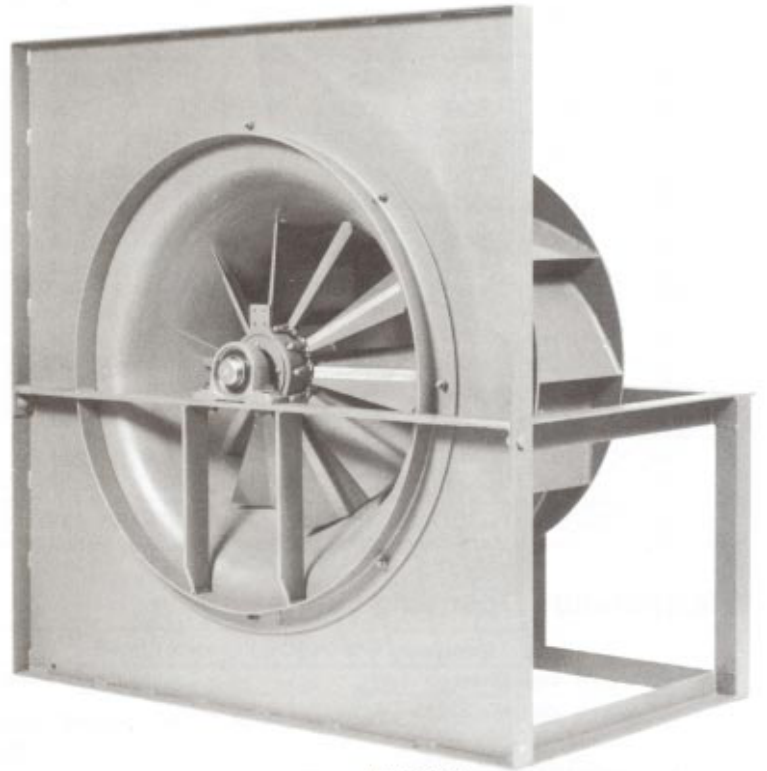
The PL plenum fans are available in wheel sizes 15" to 73" diameters. Wheel sizes 15" to 24-1/2" are backwardly inclined. Wheel sizes 27" and above have airfoil blades.

The PL plenum fans are available in belt drive SWSI & DWDI Arrangement 3, Direct drive Arrangement 4. Performance from 1408 CFM to 128,688 CFM to 8" S.P.

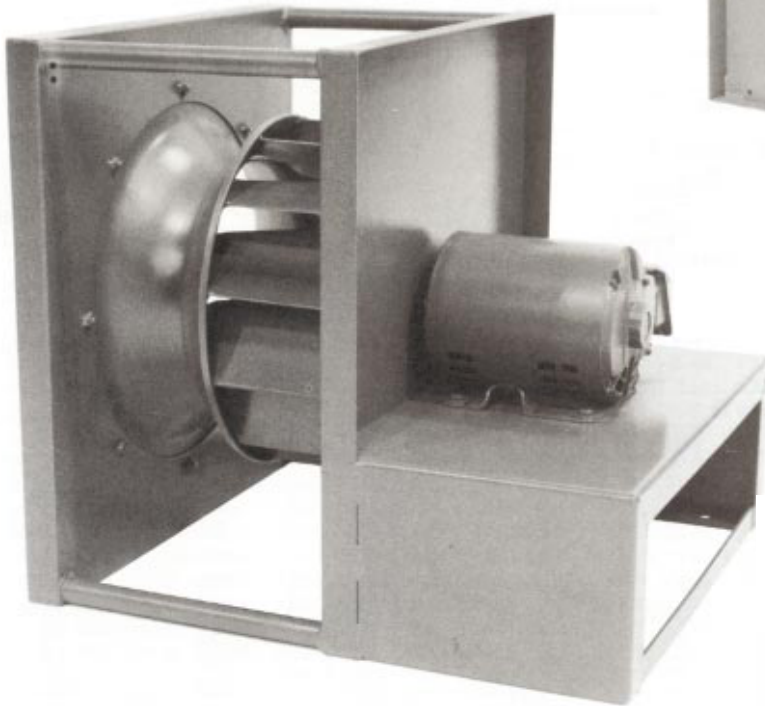
Peerless Blowers Plenum fans have established industry standards for design, performance and reliability. In addition, Madison Manufacturing's nationwide Sales Representatives are qualified air moving professionals ready to assist you for the best possible combination of design and performance.

PEERLESS BLOWERS since 1893

Better products by Design with quality in every product. Performance engineered fan arrangements, options, accessories and special features to fit every application.



PL4455W
with Inlet Vanes
Sizes PL150 to PL245 have
external inlet vanes.
Sizes PL270 and larger are nested type.



PL182 DIRECT DRIVE

AVAILABLE OPTIONS

Special Class III Construction
Variable Inlet Vanes
Safety Screen Enclosure
Vertical Shaft SWSI Only
Integral Base for Motor Mount
Drive Arrangement on Inlet Side of Fan



PL365 with optional safety screen enclosure

Air Density Factors for Various Temperatures and Altitudes

Unity Basis = Standard Air Density of .075 lb./ft³

At sea level (29.92 in. Hg barometric pressure) this is equivalent to dry air at 70°F.

Air Temp.	Altitude in Feet Above Sea Level												
	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	15000	20000
°F	Barometric Pressure in Inches of Mercury												
70	29.92	28.86	27.82	26.82	25.84	24.90	23.98	23.09	22.22	21.39	20.58	16.89	13.75
100	1.000	.964	.930	.896	.864	.832	.801	.772	.743	.714	.688	.564	.460
150	.946	.912	.880	.848	.818	.787	.758	.730	.703	.676	.651	.534	.435
200	.869	.838	.808	.770	.751	.723	.696	.671	.656	.620	.598	.490	.400
250	.803	.774	.747	.720	.694	.668	.643	.620	.596	.573	.552	.453	.360
300	.747	.720	.694	.669	.645	.622	.598	.576	.555	.533	.514	.421	.344
350	.697	.672	.648	.624	.604	.580	.558	.538	.518	.498	.480	.393	.321
400	.654	.631	.608	.586	.565	.544	.524	.505	.486	.467	.450	.369	.301
450	.616	.594	.573	.552	.532	.513	.493	.476	.458	.440	.424	.347	.283
500	.582	.561	.542	.522	.503	.484	.466	.449	.433	.416	.401	.328	.268
550	.552	.532	.513	.495	.477	.459	.442	.426	.410	.394	.380	.311	.254
600	.525	.506	.488	.470	.454	.437	.421	.405	.390	.375	.361	.296	.242
650	.500	.482	.469	.448	.432	.416	.400	.386	.372	.352	.344	.282	.230
700	.477	.460	.444	.427	.412	.397	.382	.368	.354	.341	.328	.269	.219
750	.457	.441	.425	.410	.395	.380	.366	.353	.340	.326	.315	.258	.210
800	.420	.404	.389	.375	.362	.350	.336	.323	.311	.300	.290	.237	.193

All performance tables are based on standard air density which is .075 lbs./ft³.

When desired performance is at other than standard conditions (.075 lbs./ft³), it must be converted to equivalent standard condition before entering the tables.

Temperature Operating Limits

Temperature RPM Derating Factors in Percent:			
Steel Wheel		Aluminum Wheel	
300°F	100%	150°F	100%
301-400°F	96%	151-200°F	95%
401-500°F	92%	201-250°F	80%
501-600°F	85%		

Wheel Weights and WR² in lbs. Ft²

Fan Size	SWSI				DWDI			
	Class I		Class II		Class I		Class II	
	Weight	WR ²	Weight	WR ²	Weight	WR ²	Weight	WR ²
PL150	27.5	4.3	33.6	5.7	42.3	7	75.4	10.4
PL165	35	6.9	42.3	8.3	74.3	12	84.8	14.6
PL182	41	10.5	49.6	12.6	84.6	17.5	97.4	21.3
PL200	56.5	17	56.4	17.4	111.4	30.3	111.4	30.3
PL222	67.5	22.9	60.3	23	130.6	45.6	115	38.3
PL245	80.5	38.4	77.6	34.2	152.6	66.7	135	56.8
PL270	77	48	78	48	133	76	132	76
PL300	99	72	99	72	156	112	154	112
PL330	133	121	133	121	200	181	218	184
PL365	159	181	161	182	238	268	257	272
PL402	204	285	204	285	331	440	386	461
PL445	247	427	282	437	395	654	447	676
PL490	363	776	400	789	593	1131	587	1132
PL542	496	1226	496	1226	734	1772	848	1844
PL600	585	1799	614	1896	863	2604	1032	2868
PL660	699	2641	730	2766	1149	3884	1198	4144
PL730	830	3875	1005	4072	1338	5688	1388	6044

CAUTION:

The minimum motor starting requirements shown on the performance pages are for belt driven units

WR²_m referred to the motor is

$$(\text{RPM FAN} / \text{RPM MTR})^2 \times \text{WR}^2 \text{ FAN} \times 1.1$$

Direct driven units will require larger motors to accelerate the fan inertia load to the design speed.

Motor manufactures differ on the WR²_m capabilities of their motors. An average value for standard design B, open drip-proof, 1750 RPM motors was used to determine the minimum motor hp.

PL150

PERFORMANCE DATA

Wheel Diameter = 15 inches
 Tip Speed = $3.92 \times \text{RPM}$
 Maximum BHP = $.272 (\text{RPM}/1000)^3$

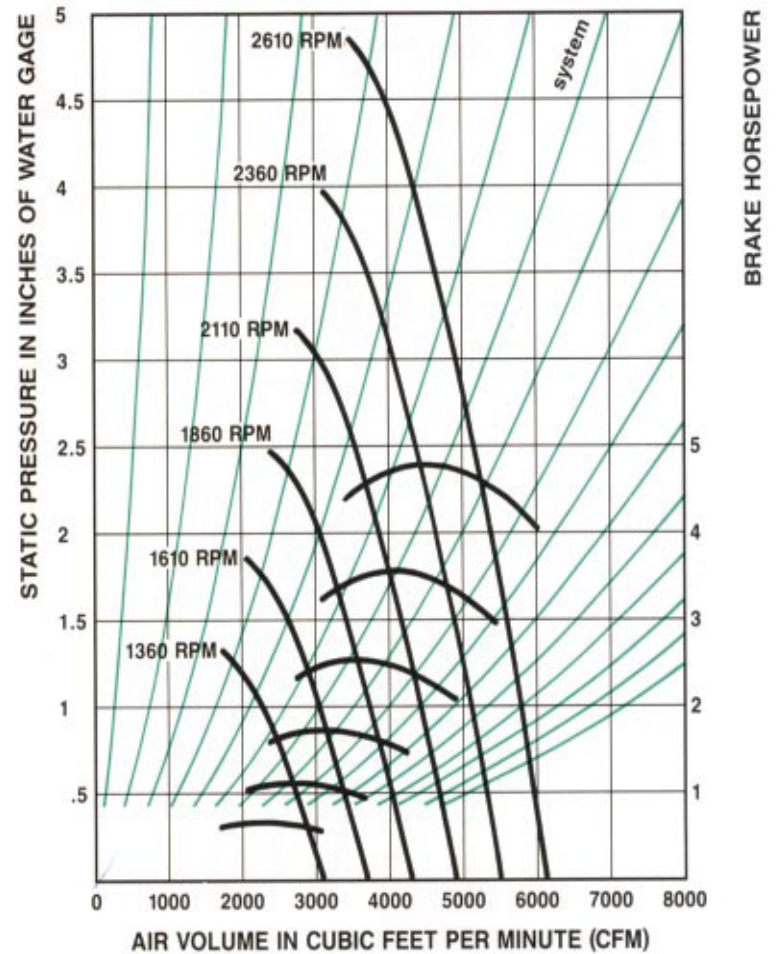
Pressure Class Limits

Class	Max. RPM
1	2458
2	3205
3	4043

Data in bold face indicates quietest and most efficient performance

	Class I
	Class II
	Class III

PEERLESS BLOWERS PLENUM FANS



VOL CFM	.5 SP		.625 SP		.75 SP		.875 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1344	868	0.17	945	0.22	1026	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1600	931	0.22	992	0.26	1055	0.31	1119	0.36	1187	0.41	-	-	-	-	-	-	-	-	-	-
1856	1008	0.28	1060	0.32	1112	0.37	1165	0.43	1219	0.48	1332	0.60	-	-	-	-	-	-	-	-
2112	1093	0.35	1139	0.40	1185	0.45	1230	0.51	1276	0.56	1370	0.68	1468	0.81	1569	0.96	-	-	-	-
2368	1183	0.43	1224	0.49	1265	0.55	1306	0.61	1347	0.67	1429	0.79	1512	0.92	1598	1.06	1687	1.22	1778	1.39
2624	1276	0.53	1341	0.59	1352	0.66	1389	0.72	1426	0.78	1499	0.92	1573	1.06	1648	1.20	1724	1.35	1803	1.51
2880	1373	0.65	1407	0.72	1442	0.78	1476	0.85	1510	0.92	1577	1.06	1644	1.21	1711	1.36	1779	1.52	1848	1.68
3136	1471	0.79	1503	0.86	1535	0.93	1566	1.00	1598	1.08	1660	1.23	1721	1.38	1783	1.54	1844	1.71	1907	1.88
3392	1570	0.95	1600	1.03	1630	1.10	1659	1.18	1689	1.26	1747	1.42	1804	1.58	1861	1.75	1917	1.92	1974	2.10
3648	1671	1.14	1699	1.22	1727	1.29	1755	1.38	1782	1.46	1836	1.63	1890	1.80	1943	1.98	1996	2.16	2049	2.34
3904	1773	1.35	1800	1.43	1826	1.51	1852	1.60	1877	1.68	1928	1.86	1979	2.04	2029	2.23	2079	2.42	2128	2.61
4160	1875	1.58	1901	1.67	1926	1.76	1950	1.85	1974	1.94	2022	2.12	2070	2.31	2117	2.51	2164	2.71	2211	2.91
4416	1978	1.84	2003	1.94	2026	2.03	2050	2.13	2073	2.22	2118	2.41	2163	2.61	2208	2.82	2253	3.02	2297	3.23
4672	2082	2.13	2105	2.23	2128	2.33	2150	2.43	2172	2.53	2215	2.74	2258	2.94	2301	3.15	2343	3.37	2385	3.59
4928	2186	2.45	2208	2.56	2230	2.67	2251	2.77	2272	2.88	2314	3.09	2354	3.31	2395	3.53	2435	3.75	2476	3.98
5184	2291	2.81	2311	2.92	2332	3.03	2353	3.14	2373	3.26	2413	3.48	2452	3.70	2491	3.93	2529	4.16	2568	4.40
VOL CFM	2.5 SP		3 SP		3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2880	1918	1.85	2064	2.22	2216	2.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3136	1969	2.05	2098	2.42	2231	2.82	2370	3.28	-	-	-	-	-	-	-	-	-	-	-	-
3392	2032	2.28	2148	2.65	2267	3.05	2390	3.48	2517	3.96	-	-	-	-	-	-	-	-	-	-
3648	2102	2.53	2208	2.92	2317	3.33	2427	3.75	2541	4.21	2658	4.70	2779	5.26	-	-	-	-	-	-
3904	2177	2.81	2276	3.22	2376	3.64	2477	4.07	2581	4.52	2686	5.00	2794	5.52	2906	6.08	-	-	-	-
4160	2257	3.12	2350	3.54	2443	3.97	2537	4.42	2632	4.89	2728	5.37	2827	5.87	2928	6.40	3031	6.97	3136	7.60
4416	2341	3.45	2428	3.89	2516	4.34	2603	4.81	2692	5.28	2781	5.77	2872	6.28	2964	6.81	3058	7.36	3154	7.94
4672	2427	3.81	2510	4.27	2593	4.74	2675	5.22	2758	5.71	2841	6.22	2926	6.73	3011	7.27	3098	7.82	3186	8.39
4928	2515	4.21	2595	4.68	2673	5.17	2751	5.67	2829	6.18	2908	6.70	2987	7.23	3067	7.77	3148	8.33	3229	8.90
5184	2606	4.64	2681	5.13	2756	5.64	2831	6.15	2905	6.68	2979	7.21	3054	7.76	3129	8.32	3205	8.89	3281	9.47
5440	2698	5.11	2770	5.62	2842	6.14	2913	6.67	2984	7.21	3055	7.77	3126	8.33	3197	8.90	3268	9.48	3340	10.08
5696	2791	5.61	2861	6.14	2929	6.68	2998	7.23	3066	7.79	3133	8.36	3201	8.94	3269	9.52	3337	10.12	3405	10.73
5952	2886	6.15	2952	6.70	3019	7.25	3084	7.82	3150	8.40	3215	8.99	3279	9.58	3344	10.19	3409	10.80	3474	11.43
6208	2981	6.74	3046	7.30	3110	7.87	3173	8.46	3236	9.05	3298	9.66	3361	10.27	3423	10.89	3485	11.53	3547	12.17

Performance shown is for installation type A - Free inlet, Free Outlet

Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

PEERLESS BLOWERS PLENUM FANS

PL165

PERFORMANCE DATA

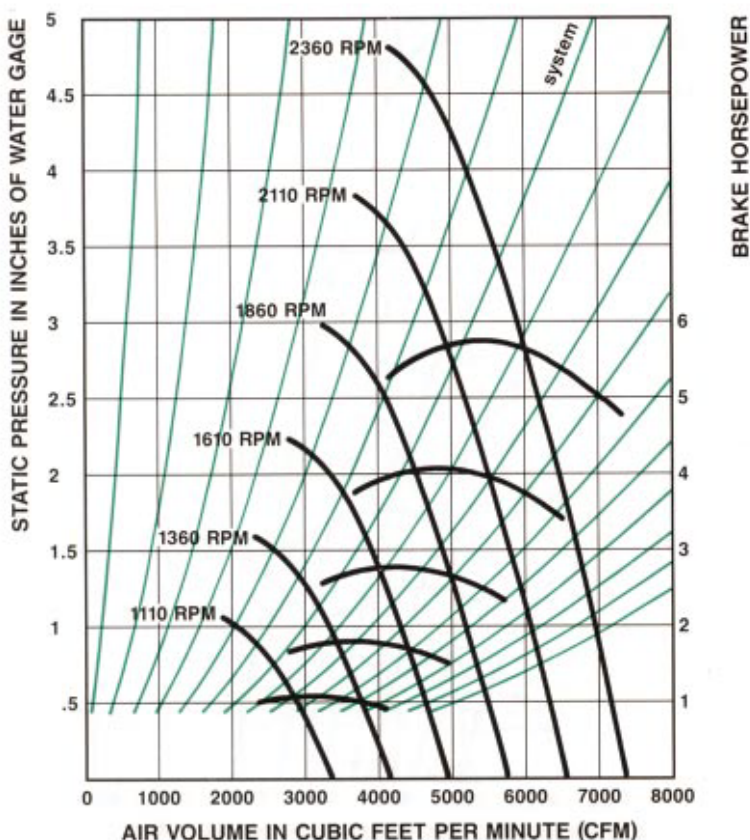
Wheel Diameter = 16½ inches
 Tip Speed = 4.32 × RPM
 Maximum BHP = .438 (RPM/1000)³

Pressure Class Limits

Class	Max. RPM
1	2235
2	2914
3	3675

Data in bold face indicates quietest and most efficient performance

	Class I
	Class II
	Class III



VOL	.5 SP		.625 SP		.75 SP		.875 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1626	789	0.21	859	0.26	933	0.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1936	846	0.27	902	0.32	959	0.37	1018	0.43	1079	0.50	-	-	-	-	-	-	-	-	-	-
2246	917	0.34	964	0.39	1011	0.45	1059	0.51	1109	0.58	1211	0.72	-	-	-	-	-	-	-	-
2556	994	0.42	1035	0.48	1077	0.55	1119	0.61	1160	0.68	1246	0.83	1334	0.98	1427	1.16	-	-	-	-
2865	1075	0.52	1113	0.59	1150	0.66	1187	0.73	1224	0.81	1299	0.96	1375	1.12	1453	1.29	1533	1.47	1617	1.68
3175	1160	0.65	1195	0.72	1229	0.79	1262	0.87	1296	0.95	1363	1.11	1430	1.28	1498	1.45	1568	1.64	1639	1.83
3485	1248	0.79	1279	0.87	1311	0.95	1342	1.03	1372	1.11	1433	1.29	1494	1.47	1555	1.65	1617	1.84	1680	2.04
3795	1337	0.96	1366	1.04	1395	1.13	1424	1.21	1452	1.30	1509	1.49	1565	1.68	1621	1.87	1677	2.07	1733	2.27
4104	1428	1.15	1455	1.24	1482	1.33	1508	1.43	1535	1.52	1588	1.71	1640	1.91	1692	2.12	1743	2.33	1795	2.54
4414	1519	1.38	1545	1.47	1570	1.57	1595	1.66	1620	1.76	1669	1.97	1718	2.18	1766	2.39	1815	2.61	1863	2.83
4724	1612	1.63	1636	1.73	1660	1.83	1683	1.93	1707	2.04	1753	2.25	1799	2.47	1845	2.70	1890	2.93	1935	3.16
5034	1705	1.91	1728	2.02	1751	2.13	1773	2.24	1795	2.34	1839	2.57	1882	2.80	1925	3.03	1968	3.28	2010	3.52
5343	1798	2.23	1821	2.34	1842	2.46	1863	2.57	1884	2.69	1926	2.92	1967	3.16	2007	3.41	2048	3.66	2088	3.91
5653	1892	2.58	1914	2.70	1934	2.82	1955	2.94	1975	3.07	2014	3.31	2053	3.56	2092	3.82	2130	4.08	2168	4.34
5963	1987	2.97	2007	3.10	2027	3.23	2047	3.36	2066	3.48	2103	3.74	2140	4.00	2177	4.27	2214	4.54	2251	4.81
6273	2082	3.40	2101	3.53	2120	3.67	2139	3.81	2158	3.94	2194	4.21	2229	4.48	2264	4.76	2299	5.04	2334	5.32
VOL	2.5 SP		3 SP		3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3485	1744	2.24	1876	2.69	2015	3.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3795	1790	2.48	1907	2.93	2029	3.41	2155	3.96	-	-	-	-	-	-	-	-	-	-	-	-
4104	1847	2.76	1953	3.21	2061	3.69	2173	4.21	2288	4.79	-	-	-	-	-	-	-	-	-	-
4414	1911	3.06	2007	3.53	2106	4.03	2207	4.54	2310	5.09	2416	5.69	2526	6.37	-	-	-	-	-	-
4724	1979	3.40	2069	3.89	2160	4.40	2252	4.93	2346	5.47	2442	6.06	2540	6.68	2641	7.36	2745	8.12	-	-
5034	2052	3.77	2136	4.28	2221	4.81	2306	5.35	2393	5.91	2480	6.49	2570	7.10	2661	7.75	2755	8.44	2851	9.19
5343	2128	4.17	2208	4.71	2287	5.25	2367	5.81	2447	6.39	2528	6.99	2611	7.60	2695	8.24	2780	8.90	2867	9.61
5653	2206	4.61	2282	5.17	2357	5.73	2432	6.32	2507	6.91	2583	7.52	2660	8.15	2738	8.79	2816	9.46	2896	10.15
5963	2287	5.09	2359	5.67	2430	6.26	2501	6.86	2572	7.47	2644	8.10	2716	8.75	2788	9.40	2862	10.08	2936	10.77
6273	2369	5.62	2438	6.21	2506	6.82	2573	7.44	2641	8.08	2709	8.73	2776	9.39	2845	10.06	2914	10.75	2983	11.46
6582	2452	6.18	2518	6.80	2583	7.43	2648	8.07	2713	8.73	2777	9.40	2842	10.08	2906	10.77	2971	11.48	3037	12.20
6892	2537	6.79	2600	7.43	2663	8.08	2725	8.74	2787	9.42	2849	10.11	2910	10.81	2972	11.53	3033	12.25	3095	12.99
7202	2623	7.45	2684	8.10	2744	8.78	2804	9.46	2863	10.16	2922	10.87	2981	11.59	3040	12.33	3099	13.07	3158	13.83
7512	2710	8.15	2769	8.83	2827	9.52	2884	10.23	2942	10.95	2998	11.68	3055	12.43	3111	13.18	3168	13.95	3224	14.72

Performance shown is for installation type A - Free inlet, Free Outlet

Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

PL182

PEERLESS BLOWERS PLENUM FANS

PERFORMANCE DATA

Wheel Diameter = 18 1/4 inches

Tip Speed = 4.77 x RPM

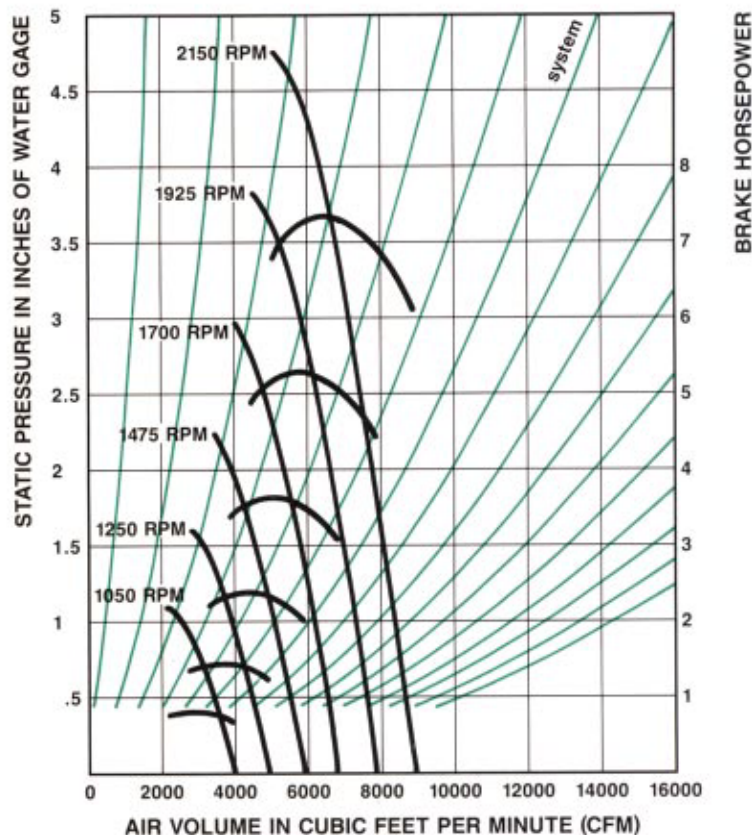
Maximum BHP = .737 (RPM/1000)³

Pressure Class Limits

Class	Max. RPM
1	2044
2	2666
3	3362

Data in bold face indicates quietest and most efficient performance

	Class I
	Class II
	Class III



VOL	.5 SP		.625 SP		.75 SP		.875 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1994	717	0.27	782	0.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2374	769	0.34	819	0.40	871	0.48	926	0.56	-	-	-	-	-	-	-	-	-	-	-	-
2754	835	0.43	877	0.50	919	0.57	962	0.65	1007	0.74	1103	0.92	-	-	-	-	-	-	-	-
3133	905	0.54	943	0.61	980	0.69	1017	0.78	1054	0.86	1131	1.05	1214	1.26	-	-	-	-	-	-
3513	978	0.67	1014	0.75	1048	0.84	1081	0.93	1114	1.02	1180	1.21	1248	1.42	1320	1.64	1396	1.88	-	-
3893	1054	0.82	1087	0.92	1119	1.01	1150	1.11	1180	1.21	1239	1.40	1299	1.61	1360	1.84	1424	2.08	1490	2.34
4273	1132	1.01	1163	1.11	1193	1.21	1222	1.32	1250	1.42	1305	1.63	1359	1.85	1413	2.08	1469	2.32	1525	2.58
4653	1212	1.22	1240	1.33	1268	1.44	1295	1.55	1322	1.66	1374	1.89	1425	2.12	1474	2.36	1524	2.61	1574	2.87
5032	1294	1.47	1319	1.58	1345	1.70	1371	1.82	1396	1.94	1446	2.19	1494	2.43	1540	2.68	1586	2.94	1632	3.21
5412	1377	1.75	1400	1.87	1424	1.99	1448	2.12	1472	2.25	1519	2.51	1565	2.78	1609	3.04	1652	3.31	1695	3.59
5792	1461	2.08	1483	2.20	1504	2.33	1527	2.46	1549	2.60	1594	2.87	1638	3.16	1680	3.44	1721	3.72	1762	4.01
6172	1546	2.44	1566	2.57	1587	2.71	1607	2.84	1628	2.98	1670	3.28	1712	3.57	1753	3.87	1792	4.18	1831	4.48
6552	1631	2.84	1651	2.99	1670	3.13	1689	3.27	1708	3.42	1748	3.72	1787	4.03	1826	4.35	1865	4.67	1902	4.99
6931	1717	3.29	1735	3.45	1754	3.60	1772	3.75	1790	3.90	1827	4.21	1864	4.54	1902	4.87	1938	5.21	1974	5.55
7311	1803	3.79	1821	3.95	1838	4.12	1855	4.27	1872	4.43	1907	4.75	1942	5.09	1978	5.44	2013	5.79	2048	6.15
7691	1890	4.35	1906	4.51	1923	4.68	1940	4.85	1956	5.02	1988	5.35	2021	5.70	2055	6.06	2089	6.42	2123	6.80
VOL	2.5 SP		3 SP		3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4273	1584	2.85	1709	3.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4653	1626	3.14	1733	3.72	1847	4.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5032	1678	3.48	1773	4.07	1872	4.70	1978	5.39	-	-	-	-	-	-	-	-	-	-	-	-
5412	1737	3.87	1824	4.46	1912	5.10	2005	5.78	2102	6.51	2204	7.29	-	-	-	-	-	-	-	-
5792	1802	4.30	1881	4.91	1962	5.55	2045	6.24	2131	6.96	2221	7.73	2314	8.54	-	-	-	-	-	-
6172	1869	4.79	1944	5.41	2019	6.07	2095	6.76	2172	7.48	2253	8.25	2336	9.05	2422	9.91	2513	10.80	-	-
6552	1938	5.31	2010	5.97	2080	6.64	2151	7.34	2222	8.07	2296	8.84	2371	9.64	2448	10.49	2529	11.37	2612	12.30
6931	2010	5.88	2078	6.57	2145	7.26	2212	7.98	2279	8.72	2346	9.50	2415	10.31	2486	11.15	2558	12.03	2633	12.94
7311	2082	6.50	2149	7.22	2213	7.94	2276	8.68	2339	9.44	2403	10.23	2467	11.04	2532	11.89	2598	12.77	2666	13.68
7691	2156	7.17	2220	7.92	2282	8.68	2343	9.44	2403	10.22	2463	11.02	2523	11.85	2584	12.70	2646	13.59	2709	14.50
8071	2230	7.89	2293	8.67	2353	9.46	2412	10.26	2470	11.07	2527	11.89	2584	12.73	2642	13.59	2699	14.49	2758	15.40
8451	2306	8.66	2366	9.48	2425	10.31	2482	11.13	2538	11.97	2593	12.82	2648	13.68	2703	14.56	2757	15.46	2812	16.39
8830	2383	9.49	2441	10.34	2498	11.20	2554	12.07	2608	12.93	2662	13.81	2714	14.70	2766	15.60	2819	16.52	2871	17.46
9210	2460	10.39	2517	11.27	2572	12.16	2626	13.06	2679	13.96	2731	14.87	2782	15.78	2833	16.71	2883	17.65	2933	18.60

Performance shown is for installation type A - Free inlet, Free Outlet

Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

PEERLESS BLOWERS PLENUM FANS

PL200

PERFORMANCE DATA

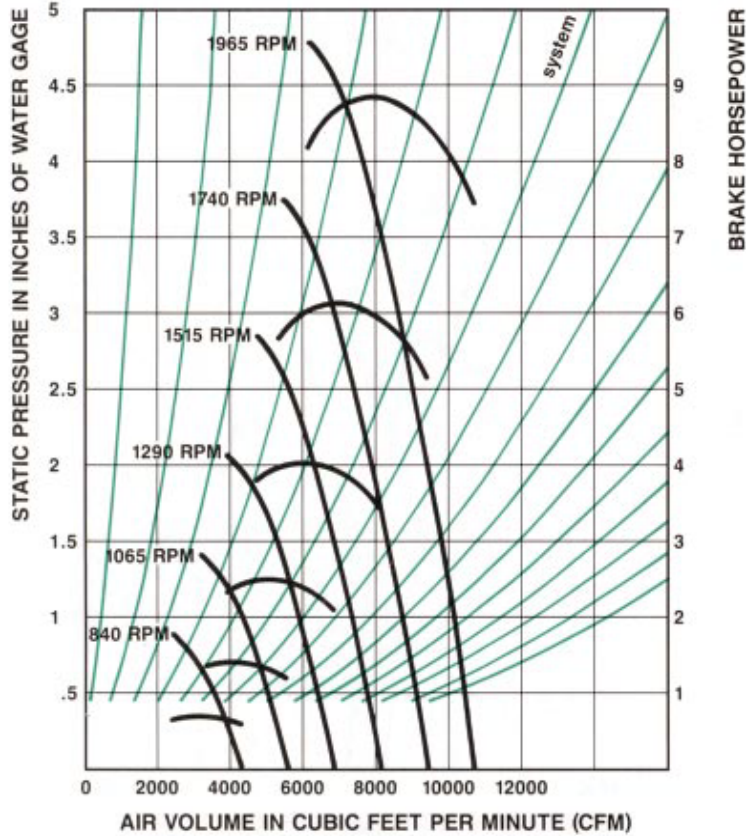
Wheel Diameter = 20 inches
Tip Speed = $5.23 \times \text{RPM}$
Maximum BHP = $1.16 (\text{RPM}/1000)^3$

Pressure Class Limits

Class	Max. RPM
1	1866
2	2432
3	3068

Data in bold face indicates quietest and most efficient performance

	Class I
	Class II
	Class III



VOL CFM	.5 SP		.625 SP		.75 SP		.875 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2395	654	0.32	714	0.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2851	702	0.40	747	0.48	795	0.57	845	0.67	-	-	-	-	-	-	-	-	-	-	-	-
3307	762	0.51	800	0.60	838	0.69	878	0.78	919	0.88	1007	1.11	-	-	-	-	-	-	-	-
3764	826	0.64	861	0.74	894	0.83	928	0.93	962	1.04	1032	1.26	1108	1.51	-	-	-	-	-	-
4220	893	0.80	925	0.91	956	1.01	986	1.12	1016	1.22	1077	1.45	1139	1.70	1205	1.97	1274	2.26	-	-
4676	962	0.99	992	1.10	1021	1.22	1049	1.33	1077	1.45	1131	1.69	1185	1.94	1241	2.21	1299	2.50	1360	2.81
5132	1033	1.21	1061	1.33	1088	1.45	1115	1.58	1141	1.71	1191	1.96	1240	2.22	1290	2.50	1340	2.79	1392	3.10
5588	1106	1.47	1131	1.59	1157	1.73	1182	1.86	1207	2.00	1254	2.27	1300	2.55	1345	2.84	1391	3.14	1437	3.45
6045	1181	1.76	1204	1.90	1227	2.04	1251	2.18	1274	2.33	1319	2.62	1363	2.92	1405	3.22	1447	3.53	1489	3.85
6501	1257	2.11	1278	2.25	1299	2.39	1321	2.55	1343	2.70	1386	3.02	1428	3.33	1468	3.65	1508	3.98	1547	4.31
6957	1333	2.49	1353	2.64	1373	2.80	1393	2.95	1414	3.12	1454	3.45	1494	3.79	1533	4.13	1571	4.47	1608	4.82
7413	1411	2.93	1429	3.09	1448	3.25	1466	3.41	1485	3.58	1524	3.93	1562	4.29	1599	4.65	1635	5.01	1671	5.38
7869	1488	3.42	1506	3.59	1524	3.76	1541	3.93	1559	4.10	1595	4.47	1631	4.84	1667	5.22	1702	5.61	1736	5.99
8326	1566	3.95	1584	4.14	1600	4.32	1617	4.50	1633	4.68	1667	5.06	1701	5.45	1735	5.85	1769	6.25	1802	6.66
8782	1645	4.55	1661	4.75	1677	4.94	1693	5.13	1708	5.32	1740	5.71	1772	6.11	1805	6.53	1837	6.96	1869	7.38
9238	1725	5.22	1739	5.42	1755	5.63	1770	5.83	1785	6.03	1814	6.43	1845	6.84	1875	7.28	1906	7.72	1937	8.16
VOL CFM	2.5 SP		3 SP		3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5132	1446	3.42	1560	4.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5588	1483	3.77	1581	4.47	1686	5.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6045	1531	4.18	1618	4.88	1709	5.64	1805	6.47	-	-	-	-	-	-	-	-	-	-	-	-
6501	1585	4.65	1664	5.36	1745	6.12	1829	6.94	1918	7.81	2011	8.75	-	-	-	-	-	-	-	-
6957	1644	5.17	1717	5.90	1790	6.67	1866	7.49	1945	8.36	2026	9.28	2112	10.26	-	-	-	-	-	-
7413	1705	5.75	1774	6.50	1842	7.29	1911	8.11	1982	8.98	2056	9.90	2132	10.87	2211	11.90	2293	12.97	-	-
7869	1769	6.38	1834	7.16	1898	7.97	1963	8.81	2028	9.69	2095	10.61	2163	11.58	2234	12.59	2307	13.66	2383	14.77
8326	1834	7.07	1896	7.89	1958	8.72	2018	9.58	2079	10.48	2141	11.41	2204	12.38	2268	13.39	2334	14.44	2403	15.55
8782	1900	7.81	1961	8.67	2019	9.54	2077	10.43	2135	11.34	2192	12.28	2251	13.26	2310	14.28	2371	15.33	2433	16.43
9238	1967	8.61	2026	9.51	2083	10.42	2138	11.34	2193	12.28	2248	13.24	2303	14.23	2358	15.26	2414	16.32	2472	17.41
9694	2035	9.47	2092	10.42	2147	11.37	2201	12.32	2254	13.29	2306	14.28	2358	15.29	2410	16.33	2463	17.40	2517	18.50
10150	2104	10.40	2159	11.39	2213	12.38	2265	13.37	2316	14.38	2366	15.39	2416	16.43	2466	17.49	2516	18.57	2566	19.68
10607	2174	11.40	2228	12.42	2280	13.46	2330	14.49	2380	15.53	2429	16.58	2477	17.65	2524	18.73	2572	19.84	2620	20.97
11063	2245	12.47	2296	13.53	2347	14.60	2397	15.68	2445	16.76	2492	17.85	2539	18.95	2585	20.06	2630	21.19	2676	22.34

Performance shown is for installation type A - Free inlet, Free Outlet

Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

PL222

PERFORMANCE DATA

Wheel Diameter = 22¼ inches
 Tip Speed = 5.82 × RPM
 Maximum BHP = 1.88 (RPM/1000)³

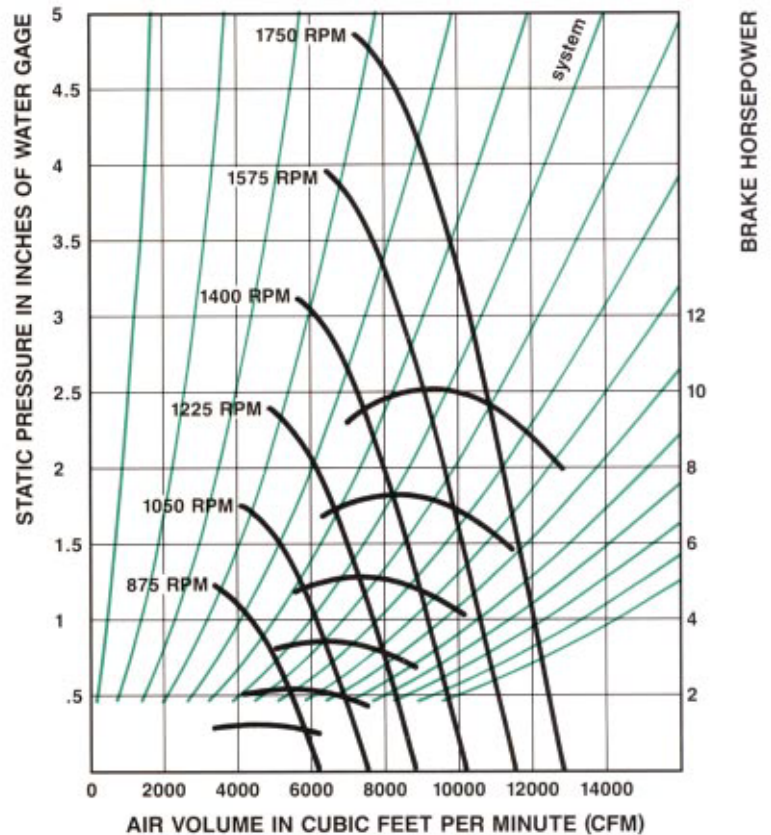
Pressure Class Limits

Class	Max. RPM
1	1661
2	2166
3	2731

Data in bold face indicates quietest and most efficient performance

	Class I
	Class II
	Class III

PEERLESS BLOWERS PLENUM FANS



VOL CFM	.5 SP		.625 SP		.75 SP		.875 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2686	576	0.35	630	0.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3251	617	0.44	660	0.54	704	0.64	748	0.74	793	0.86	-	-	-	-	-	-	-	-	-	-
3816	669	0.56	705	0.66	742	0.77	779	0.88	816	1.00	891	1.25	-	-	-	-	-	-	-	-
4382	728	0.71	759	0.82	791	0.93	823	1.05	855	1.17	919	1.43	984	1.72	1051	2.01	-	-	-	-
4947	791	0.89	819	1.01	847	1.13	875	1.26	903	1.39	959	1.66	1016	1.95	1074	2.26	1132	2.58	1191	2.92
5513	857	1.11	882	1.24	907	1.37	932	1.51	958	1.64	1008	1.93	1059	2.23	1109	2.55	1161	2.89	1212	3.24
6078	924	1.37	948	1.51	971	1.65	994	1.79	1016	1.94	1062	2.25	1108	2.56	1154	2.89	1200	3.24	1246	3.60
6643	993	1.66	1015	1.82	1036	1.97	1057	2.13	1078	2.28	1120	2.61	1162	2.94	1204	3.29	1246	3.64	1288	4.01
7209	1064	2.01	1084	2.17	1104	2.34	1123	2.51	1143	2.68	1181	3.02	1220	3.37	1258	3.73	1297	4.11	1335	4.49
7774	1135	2.41	1154	2.58	1172	2.76	1191	2.94	1209	3.12	1245	3.48	1281	3.86	1316	4.24	1352	4.63	1388	5.03
8340	1207	2.86	1224	3.05	1242	3.24	1259	3.43	1276	3.62	1310	4.00	1344	4.40	1377	4.80	1410	5.21	1444	5.62
8905	1279	3.38	1296	3.57	1312	3.77	1328	3.97	1345	4.17	1377	4.58	1408	5.00	1440	5.42	1471	5.85	1502	6.29
9470	1352	3.96	1368	4.16	1383	4.37	1399	4.58	1414	4.80	1444	5.23	1474	5.67	1504	6.11	1534	6.56	1563	7.01
10036	1426	4.60	1440	4.82	1455	5.04	1470	5.26	1484	5.48	1513	5.94	1542	6.40	1570	6.86	1598	7.34	1626	7.81
10601	1499	5.32	1514	5.55	1527	5.78	1541	6.01	1555	6.24	1583	6.72	1610	7.20	1637	7.69	1663	8.18	1690	8.68
11167	1573	6.11	1587	6.35	1600	6.59	1613	6.84	1627	7.08	1653	7.58	1679	8.08	1704	8.59	1730	9.11	1755	9.63
VOL CFM	2.5 SP		3 SP		3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6078	1293	3.97	1387	4.76	1483	5.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6643	1330	4.40	1415	5.21	1501	6.07	1589	6.97	-	-	-	-	-	-	-	-	-	-	-	-
7209	1374	4.89	1452	5.72	1530	6.60	1610	7.52	1690	8.49	1772	9.49	-	-	-	-	-	-	-	-
7774	1423	5.44	1495	6.29	1567	7.19	1640	8.14	1713	9.13	1788	10.16	1863	11.22	-	-	-	-	-	-
8340	1477	6.05	1543	6.93	1610	7.86	1678	8.82	1745	9.83	1814	10.88	1882	11.97	1952	13.10	2022	14.25	-	-
8905	1533	6.73	1596	7.64	1658	8.59	1721	9.58	1784	10.61	1847	11.68	1911	12.79	1975	13.94	2040	15.12	2105	16.33
9470	1592	7.48	1651	8.43	1709	9.41	1768	10.42	1827	11.47	1886	12.56	1946	13.69	2006	14.86	2066	16.06	2126	17.30
10036	1653	8.29	1709	9.28	1764	10.30	1819	11.34	1875	12.42	1930	13.53	1986	14.68	2042	15.87	2098	17.09	2155	18.35
10601	1716	9.19	1769	10.21	1821	11.26	1873	12.34	1925	13.45	1978	14.59	2031	15.76	2083	16.97	2136	18.21	2190	19.49
11167	1780	10.16	1830	11.22	1880	12.31	1930	13.43	1979	14.57	2029	15.74	2079	16.94	2129	18.17	2179	19.43	2229	20.72
11732	1846	11.20	1893	12.31	1941	13.44	1988	14.59	2035	15.77	2082	16.97	2130	18.20	2177	19.46	2225	20.75	2272	22.06
12297	1912	12.34	1958	13.49	2003	14.66	2048	15.85	2093	17.06	2138	18.30	2183	19.56	2229	20.85	2274	22.17	2319	23.51
12863	1979	13.56	2023	14.75	2067	15.97	2110	17.20	2153	18.45	2196	19.72	2239	21.02	2282	22.34	2325	23.69	2369	25.06
13428	2047	14.87	2089	16.11	2131	17.37	2173	18.64	2214	19.93	2256	21.25	2297	22.58	2338	23.93	2379	25.31	2421	26.71
13994	2116	16.3	2156	17.6	2197	18.9	2237	20.2	2277	21.5	2316	22.9	2356	24.2	2396	25.6	2435	27	2475	28.5

Performance shown is for installation type A - Free inlet, Free Outlet

Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

PEERLESS BLOWERS PLENUM FANS

PL245

PERFORMANCE DATA

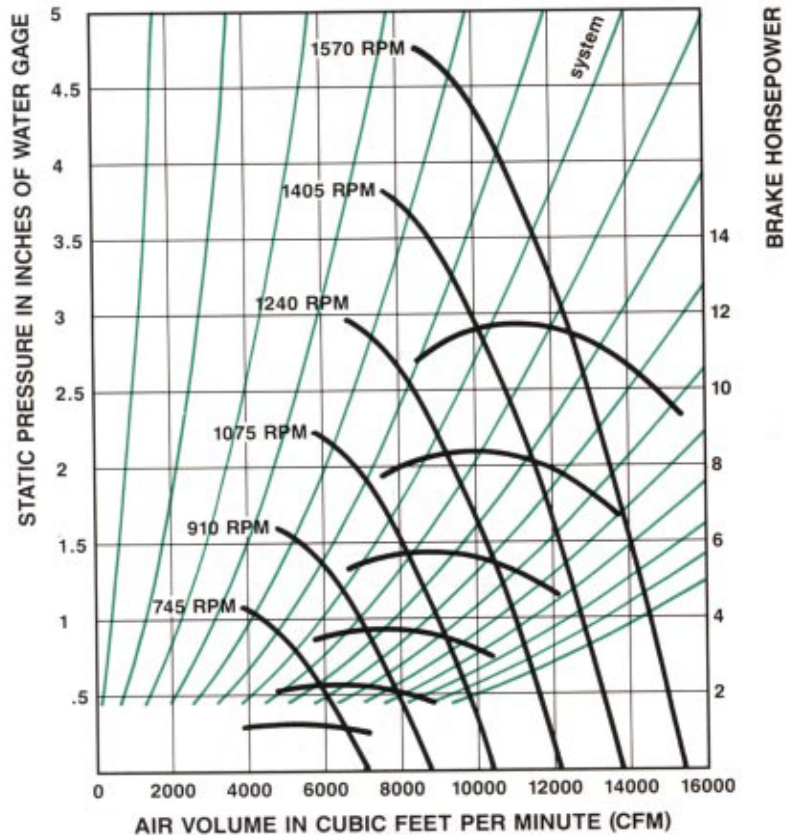
Wheel Diameter = 24½ inches
Tip Speed = 6.41 × RPM
Maximum BHP = 3.05 (RPM/1000)³

Pressure Class Limits

Class	Max. RPM
1	1508
2	1967
3	2480

Data in bold face indicates quietest and most efficient performance

	Class I
	Class II
	Class III



VOL CFM	.5 SP		.625 SP		.75 SP		.875 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3256	523	0.43	572	0.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3942	560	0.54	599	0.65	639	0.77	679	0.90	720	1.04	-	-	-	-	-	-	-	-	-	-
4627	608	0.68	641	0.80	674	0.93	707	1.07	741	1.21	809	1.51	-	-	-	-	-	-	-	-
5313	661	0.86	690	0.99	718	1.13	747	1.27	776	1.42	835	1.74	894	2.08	954	2.44	-	-	-	-
5998	718	1.08	744	1.23	769	1.37	795	1.53	820	1.68	871	2.01	923	2.37	975	2.74	1028	3.13	1081	3.54
6684	778	1.34	801	1.50	824	1.66	847	1.82	870	1.99	915	2.34	961	2.71	1007	3.09	1054	3.50	1101	3.92
7369	839	1.66	861	1.83	882	2.00	902	2.17	923	2.35	965	2.72	1006	3.11	1048	3.51	1089	3.92	1131	4.36
8055	902	2.02	922	2.20	941	2.39	960	2.58	979	2.77	1017	3.16	1055	3.57	1093	3.98	1131	4.42	1169	4.87
8740	966	2.44	984	2.64	1002	2.84	1020	3.04	1038	3.24	1073	3.66	1108	4.09	1143	4.53	1178	4.98	1213	5.44
9426	1031	2.92	1048	3.13	1064	3.35	1081	3.56	1098	3.78	1131	4.22	1163	4.67	1196	5.14	1228	5.61	1260	6.09
10111	1096	3.47	1112	3.70	1128	3.92	1143	4.15	1159	4.39	1190	4.85	1220	5.33	1251	5.82	1281	6.31	1311	6.82
10797	1162	4.10	1177	4.33	1192	4.57	1206	4.82	1221	5.06	1250	5.56	1279	6.06	1308	6.57	1336	7.09	1364	7.62
11482	1228	4.80	1242	5.05	1256	5.30	1270	5.56	1284	5.81	1312	6.34	1339	6.87	1366	7.41	1393	7.95	1419	8.50
12168	1295	5.58	1308	5.84	1321	6.11	1335	6.38	1348	6.65	1374	7.20	1400	7.76	1426	8.32	1451	8.89	1476	9.47
12854	1362	6.45	1375	6.73	1387	7.01	1400	7.29	1412	7.57	1437	8.15	1462	8.73	1486	9.33	1511	9.92	1535	10.53
13539	1429	7.41	1441	7.70	1453	8.00	1465	8.29	1477	8.59	1501	9.19	1525	9.80	1548	10.42	1571	11.05	1594	11.68
VOL CFM	2.5 SP		3 SP		3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7369	1174	4.82	1260	5.77	1347	6.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8055	1208	5.33	1285	6.32	1363	7.36	1443	8.45	-	-	-	-	-	-	-	-	-	-	-	-
8740	1248	5.93	1319	6.93	1390	8.00	1462	9.12	1535	10.30	1609	11.51	-	-	-	-	-	-	-	-
9426	1293	6.59	1358	7.63	1423	8.72	1489	9.86	1556	11.07	1623	12.32	1692	13.61	-	-	-	-	-	-
10111	1341	7.34	1402	8.41	1462	9.52	1524	10.69	1585	11.92	1647	13.19	1710	14.52	1773	15.88	1837	17.28	-	-
10797	1392	8.16	1449	9.27	1506	10.42	1563	11.62	1620	12.87	1677	14.16	1735	15.51	1794	16.90	1852	18.34	1912	19.81
11482	1446	9.07	1499	10.22	1552	11.41	1606	12.64	1659	13.91	1713	15.23	1767	16.60	1821	18.02	1876	19.48	1931	20.98
12168	1502	10.06	1552	11.25	1602	12.48	1652	13.75	1702	15.06	1753	16.41	1804	17.80	1855	19.24	1906	20.72	1957	22.24
12854	1558	11.14	1606	12.38	1654	13.66	1701	14.96	1749	16.31	1796	17.69	1844	19.11	1892	20.58	1940	22.08	1989	23.63
13539	1617	12.31	1662	13.61	1707	14.93	1752	16.28	1797	17.66	1843	19.08	1888	20.53	1933	22.03	1979	23.56	2024	25.13
14225	1676	13.59	1719	14.93	1762	16.30	1805	17.69	1848	19.12	1891	20.58	1934	22.07	1977	23.59	2020	25.16	2064	26.75
14910	1736	14.96	1778	16.36	1819	17.77	1860	19.22	1901	20.69	1942	22.19	1983	23.72	2024	25.28	2065	26.88	2106	28.50
15596	1797	16.44	1837	17.89	1877	19.36	1916	20.85	1955	22.37	1994	23.92	2034	25.49	2073	27.09	2112	28.72	2151	30.38
16281	1859	18.03	1897	19.53	1935	21.06	1973	22.60	2011	24.17	2048	25.76	2086	27.38	2123	29.02	2161	30.69	2198	32.39
16967	1921	19.7	1958	21.30	1995	22.9	2031	24.5	2068	26.1	2104	27.7	2140	29.4	2176	31.1	2212	32.8	2248	34.5

Performance shown is for installation type A - Free Inlet, Free Outlet

Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

PL270

PERFORMANCE DATA

Wheel Diameter = 27 inches
 Tip Speed = 7.07 × RPM
 Maximum BHP = 3.31 (RPM/1000)³

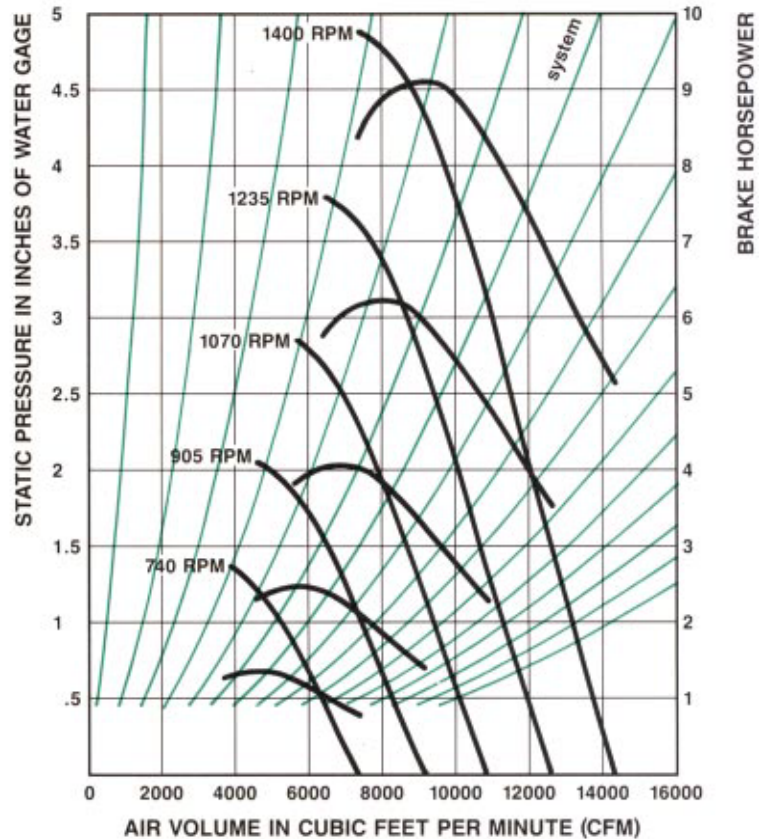
Pressure Class Limits

Class	Max. RPM
1	1453
2	1893
3	2389

Data in bold face indicates quietest and most efficient performance

	Class I
	Class II
	Class III

PEERLESS BLOWERS PLENUM FANS



VOL	.5 SP		.75 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP		2.5 SP		3 SP	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3352	487	0.38	558	0.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4190	545	0.50	601	0.71	658	0.94	716	1.18	-	-	-	-	-	-	-	-	-	-	-	-
5028	612	0.66	660	0.90	707	1.15	753	1.42	801	1.70	850	1.99	900	2.29	-	-	-	-	-	-
5866	683	0.86	726	1.13	767	1.40	807	1.69	847	2.00	887	2.31	928	2.64	969	2.97	1011	3.32	-	-
6704	755	1.09	795	1.40	833	1.71	869	2.02	904	2.35	938	2.69	973	3.04	1008	3.40	1044	3.77	1116	4.53
7542	829	1.38	867	1.72	902	2.06	935	2.41	967	2.76	998	3.13	1029	3.50	1060	3.88	1091	4.28	1154	5.09
8380	903	1.72	939	2.09	973	2.47	1004	2.85	1034	3.24	1063	3.63	1091	4.03	1119	4.44	1147	4.85	1203	5.71
9218	979	2.13	1013	2.53	1045	2.94	1074	3.35	1103	3.77	1130	4.20	1157	4.63	1183	5.06	1208	5.51	1259	6.41
10056	1056	2.60	1088	3.03	1118	3.47	1146	3.92	1173	4.38	1199	4.84	1225	5.30	1249	5.76	1273	6.23	1320	7.20
10894	1133	3.14	1164	3.61	1192	4.08	1219	4.56	1245	5.05	1270	5.54	1294	6.04	1318	6.54	1341	7.04	1385	8.06
11732	1210	3.76	1240	4.27	1267	4.77	1293	5.28	1318	5.80	1342	6.33	1365	6.86	1388	7.40	1410	7.93	1452	9.01
12570	1288	4.46	1317	5.01	1343	5.55	1368	6.09	1391	6.64	1415	7.20	1437	7.77	1459	8.33	1480	8.91	1521	10.06
13408	1366	5.25	1394	5.84	1419	6.42	1443	6.99	1466	7.57	1488	8.16	1510	8.76	1531	9.36	1551	9.97	1591	11.19
VOL	3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7542	1217	5.94	1283	6.82	1350	7.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8380	1259	6.61	1316	7.53	1374	8.49	1433	9.48	1493	10.49	-	-	-	-	-	-	-	-	-	-
9218	1310	7.35	1361	8.33	1412	9.33	1464	10.36	1517	11.42	1570	12.50	1625	13.61	1681	14.75	-	-	-	-
10056	1367	8.18	1413	9.20	1460	10.25	1507	11.33	1554	12.43	1602	13.56	1650	14.72	1699	15.90	1749	17.10	1799	18.32
10894	1429	9.10	1472	10.17	1514	11.27	1557	12.39	1600	13.54	1644	14.72	1687	15.92	1732	17.14	1776	18.39	1821	19.66
11732	1493	10.12	1534	11.24	1574	12.38	1614	13.55	1653	14.75	1693	15.97	1733	17.22	1774	18.49	1814	19.78	1855	21.09
12570	1560	11.22	1599	12.40	1636	13.60	1674	14.82	1711	16.06	1748	17.33	1785	18.62	1823	19.94	1860	21.28	1898	22.64
13408	1629	12.42	1666	13.66	1702	14.92	1737	16.19	1772	17.49	1807	18.81	1842	20.15	1877	21.51	1912	22.89	1947	24.30
14246	1698	13.72	1734	15.02	1769	16.34	1802	17.68	1836	19.03	1869	20.40	1902	21.79	1935	23.20	1968	24.63	2000	26.09
15084	1769	15.12	1803	16.49	1837	17.88	1870	19.27	1902	20.69	1934	22.11	1965	23.56	1996	25.02	2027	26.50	2058	28.00
15922	1840	16.62	1874	18.07	1906	19.52	1938	20.99	1969	22.46	2000	23.94	2030	25.45	2060	26.96	2089	28.50	2119	30.05
16760	1912	18.24	1945	19.76	1977	21.28	2008	22.81	2038	24.35	2067	25.90	2096	27.46	2125	29.04	2154	30.63	2182	32.23
17598	1985	19.98	2017	21.56	2048	23.16	2078	24.76	2107	26.37	2136	27.98	2164	29.61	2192	31.25	2220	32.89	2247	34.56

Performance shown is for installation type A - Free inlet, Free Outlet

Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

PEERLESS BLOWERS PLENUM FANS

PL300

PERFORMANCE DATA

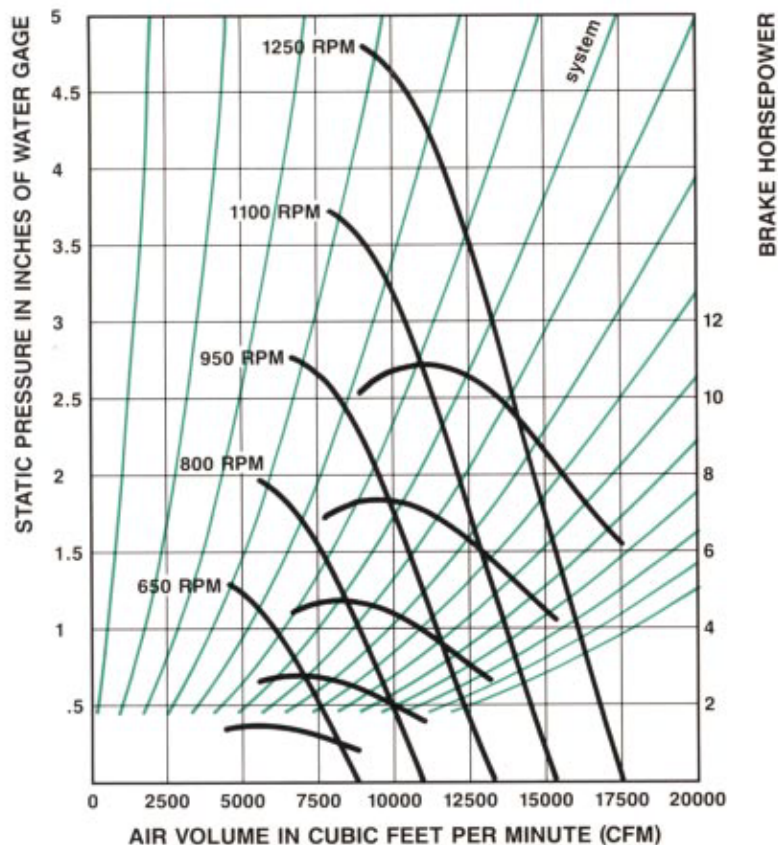
Wheel Diameter = 30 inches
 Tip Speed = $7.85 \times \text{RPM}$
 Maximum BHP = $5.61 (\text{RPM}/1000)^3$

Pressure Class Limits

Class	Max. RPM
1	1308
2	1703
3	2150

Data in bold face indicates quietest and most efficient performance

	Class I
	Class II
	Class III



VOL	.5 SP		.75 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP		2.5 SP		3 SP	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4136	438	0.47	502	0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5170	491	0.62	541	0.88	592	1.16	645	1.46	-	-	-	-	-	-	-	-	-	-	-	-
6204	551	0.82	594	1.11	636	1.42	678	1.75	721	2.09	765	2.45	810	2.83	-	-	-	-	-	-
7238	614	1.06	653	1.39	690	1.73	726	2.09	762	2.46	798	2.85	835	3.26	872	3.67	910	4.10	-	-
8272	679	1.35	716	1.73	749	2.11	782	2.50	813	2.90	845	3.32	876	3.75	908	4.19	940	4.65	1005	5.60
9306	746	1.70	780	2.12	812	2.55	841	2.97	870	3.41	898	3.86	926	4.32	954	4.79	982	5.28	1038	6.28
10340	813	2.13	845	2.58	875	3.05	903	3.52	930	4.00	956	4.48	982	4.97	1007	5.48	1032	5.99	1082	7.05
11374	882	2.63	912	3.12	940	3.63	967	4.14	993	4.66	1017	5.18	1041	5.71	1064	6.25	1087	6.80	1133	7.92
12408	950	3.21	979	3.74	1006	4.28	1032	4.84	1056	5.40	1080	5.97	1102	6.54	1124	7.11	1146	7.70	1188	8.88
13442	1020	3.88	1047	4.45	1073	5.04	1097	5.63	1121	6.24	1143	6.84	1165	7.46	1186	8.07	1207	8.69	1247	9.95
14476	1089	4.64	1116	5.27	1140	5.89	1164	6.52	1186	7.16	1208	7.81	1229	8.47	1249	9.13	1269	9.79	1307	11.13
15510	1159	5.51	1185	6.19	1208	6.85	1231	7.51	1252	8.20	1273	8.89	1293	9.59	1313	10.29	1332	11.00	1369	12.42
16544	1229	6.49	1254	7.21	1277	7.92	1299	8.63	1319	9.34	1339	10.07	1359	10.81	1378	11.56	1396	12.31	1432	13.81
VOL	3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9306	1096	7.33	1154	8.42	1215	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10340	1133	8.16	1184	9.30	1236	10.48	1289	11.70	1344	12.95	-	-	-	-	-	-	-	-	-	-
11374	1179	9.08	1224	10.28	1271	11.52	1318	12.79	1365	14.10	1413	15.43	1462	16.80	1512	18.21	-	-	-	-
12408	1230	10.10	1272	11.36	1314	12.66	1356	13.99	1399	15.35	1442	16.74	1485	18.17	1529	19.62	1574	21.11	1620	22.62
13442	1286	11.24	1324	12.56	1363	13.91	1402	15.30	1440	16.72	1479	18.17	1519	19.65	1558	21.16	1599	22.70	1639	24.27
14476	1344	12.49	1380	13.87	1416	15.29	1452	16.73	1488	18.21	1524	19.72	1560	21.25	1596	22.82	1633	24.42	1670	26.04
15510	1404	13.85	1439	15.31	1473	16.79	1506	18.30	1540	19.83	1573	21.40	1607	22.99	1640	24.62	1674	26.27	1708	27.95
16544	1466	15.33	1499	16.86	1531	18.42	1563	19.99	1595	21.59	1626	23.22	1658	24.87	1689	26.56	1720	28.26	1752	30.00
17578	1529	16.93	1561	18.55	1592	20.18	1622	21.83	1652	23.49	1682	25.19	1712	26.90	1741	28.64	1771	30.41	1800	32.20
18612	1592	18.66	1623	20.36	1653	22.07	1683	23.80	1712	25.54	1740	27.30	1768	29.08	1796	30.89	1824	32.71	1852	34.57
19646	1656	20.52	1687	22.31	1716	24.10	1744	25.91	1772	27.73	1800	29.56	1827	31.41	1854	33.29	1880	35.18	1907	37.10
20680	1721	22.52	1751	24.39	1779	26.27	1807	28.16	1834	30.06	1861	31.98	1887	33.90	1913	35.85	1938	37.81	1964	39.79
21714	1787	24.66	1815	26.62	1843	28.59	1870	30.57	1897	32.55	1922	34.55	1948	36.55	1973	38.57	1998	40.61	2022	42.66

Performance shown is for installation type A - Free inlet, Free Outlet

Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

PL330

PERFORMANCE DATA

Wheel Diameter = 33 inches
Tip Speed = $8.63 \times \text{RPM}$
Maximum BHP = $9.03 (\text{RPM}/1000)^3$

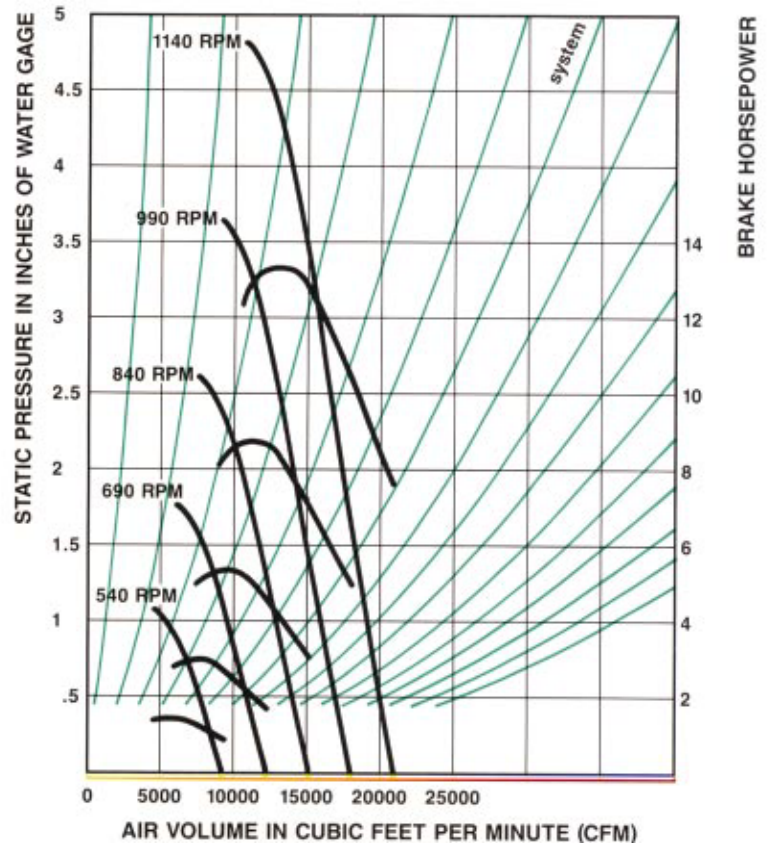
Pressure Class Limits

Class	Max. RPM
1	1189
2	1548
3	1955

Data in bold face indicates quietest and most efficient performance

	Class I
	Class II
	Class III

PEERLESS BLOWERS PLENUM FANS



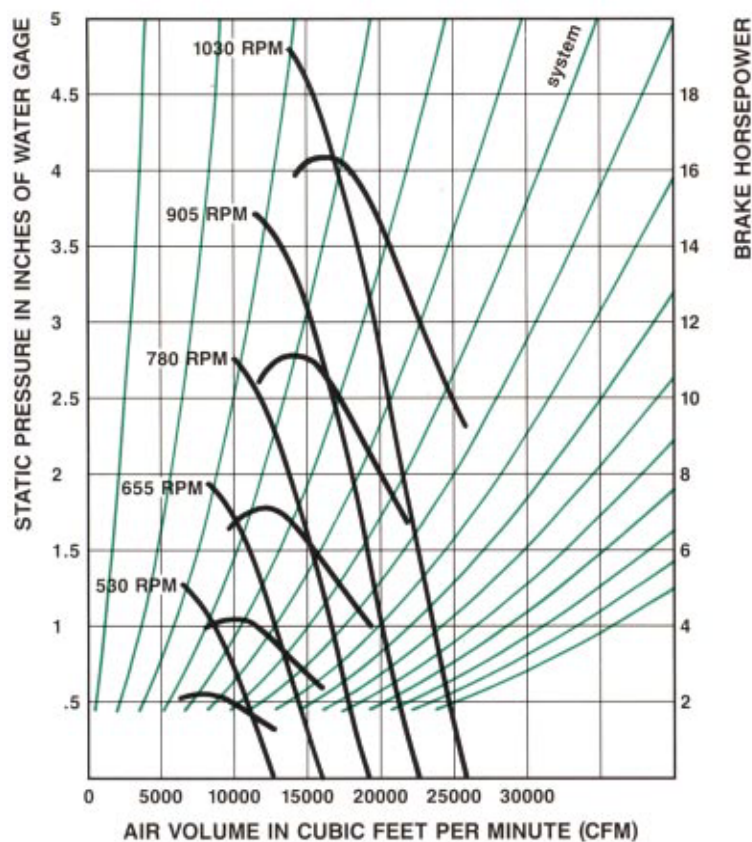
VOL CFM	.5 SP		.75 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP		2.5 SP		3 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5008	398	0.57	457	0.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6260	446	0.75	492	1.07	538	1.41	586	1.77	-	-	-	-	-	-	-	-	-	-	-	-
7512	501	0.99	540	1.34	578	1.72	616	2.12	655	2.53	695	2.97	736	3.42	-	-	-	-	-	-
8764	559	1.28	594	1.68	627	2.10	660	2.53	693	2.98	726	3.45	759	3.94	793	4.44	827	4.96	-	-
10016	618	1.64	651	2.09	681	2.55	711	3.02	739	3.51	768	4.02	796	4.54	825	5.07	854	5.63	913	6.77
11268	678	2.06	709	2.57	738	3.08	765	3.60	791	4.13	817	4.67	842	5.23	867	5.80	893	6.39	944	7.60
12520	739	2.57	768	3.12	796	3.69	821	4.26	846	4.84	869	5.42	893	6.02	916	6.63	938	7.25	984	8.53
13772	801	3.18	829	3.77	855	4.39	879	5.01	902	5.64	925	6.27	946	6.91	968	7.56	989	8.22	1030	9.58
15024	864	3.88	890	4.53	915	5.18	938	5.86	960	6.54	981	7.22	1002	7.91	1022	8.61	1042	9.31	1080	10.75
16276	927	4.70	952	5.39	975	6.09	998	6.81	1019	7.54	1039	8.28	1059	9.02	1078	9.77	1097	10.52	1133	12.04
17528	990	5.62	1015	6.38	1037	7.12	1058	7.89	1078	8.67	1098	9.46	1117	10.25	1135	11.05	1153	11.85	1188	13.47
18780	1054	6.66	1077	7.49	1099	8.29	1119	9.09	1138	9.92	1157	10.75	1176	11.60	1194	12.45	1211	13.30	1244	15.02
20032	1117	7.85	1140	8.73	1161	9.59	1180	10.44	1199	11.31	1217	12.19	1235	13.08	1252	13.99	1269	14.89	1302	16.71
VOL CFM	3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11268	996	8.87	1049	10.18	1104	11.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12520	1030	9.87	1076	11.25	1124	12.68	1172	14.15	1221	15.67	-	-	-	-	-	-	-	-	-	-
13772	1072	10.98	1113	12.44	1155	13.93	1198	15.48	1241	17.06	1285	18.68	1329	20.33	1375	22.03	-	-	-	-
15024	1118	12.23	1156	13.75	1194	15.31	1233	16.92	1271	18.57	1311	20.26	1350	21.98	1390	23.75	1431	25.54	1472	27.37
16276	1169	13.60	1204	15.20	1239	16.83	1274	18.51	1309	20.23	1345	21.98	1381	23.78	1417	25.60	1453	27.47	1490	29.36
17528	1222	15.11	1255	16.79	1288	18.50	1320	20.25	1353	22.03	1385	23.86	1418	25.72	1451	27.61	1484	29.55	1518	31.51
18780	1277	16.76	1308	18.52	1339	20.31	1369	22.14	1400	24.00	1430	25.89	1461	27.82	1491	29.79	1522	31.79	1553	33.82
20032	1333	18.55	1363	20.41	1392	22.28	1421	24.19	1450	26.13	1479	28.10	1507	30.10	1536	32.13	1564	34.20	1593	36.30
21284	1390	20.49	1419	22.44	1447	24.41	1475	26.41	1502	28.43	1529	30.47	1556	32.55	1583	34.66	1610	36.80	1637	38.97
22536	1447	22.58	1476	24.64	1503	26.71	1530	28.79	1556	30.90	1582	33.03	1608	35.19	1633	37.37	1659	39.59	1684	41.83
23788	1506	24.83	1533	26.99	1560	29.16	1586	31.35	1611	33.55	1636	35.77	1661	38.01	1685	40.28	1709	42.57	1734	44.89
25040	1565	27.25	1591	29.51	1617	31.79	1643	34.08	1667	36.38	1691	38.69	1715	41.02	1739	43.38	1762	45.75	1785	48.15
26292	1624	29.84	1650	32.21	1676	34.59	1700	36.99	1724	39.39	1748	41.80	1771	44.23	1793	46.67	1816	49.14	1838	51.62

Performance shown is for installation type A - Free inlet, Free Outlet

Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

PEERLESS BLOWERS PLENUM FANS



PL365

PERFORMANCE DATA

Wheel Diameter = 36½ inches

Tip Speed = 9.56 × RPM

Maximum BHP = 14.95 (RPM/1000)³

Pressure Class Limits

Class	Max. RPM
1	1098
2	1431
3	1767

Data in bold face indicates quietest and most efficient performance

Class I
Class II
Class III

Minimum horsepower required to start fan—1 HP

VOL	.5 SP		.75 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP		2.5 SP		3 SP	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6128	360	0.69	413	1.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7660	403	0.92	445	1.30	487	1.72	530	2.16	-	-	-	-	-	-	-	-	-	-	-	-
9192	453	1.21	488	1.64	523	2.10	557	2.59	592	3.10	628	3.63	666	4.19	-	-	-	-	-	-
10724	505	1.57	537	2.06	567	2.57	597	3.10	626	3.65	656	4.22	686	4.82	717	5.43	748	6.07	-	-
12256	558	2.00	588	2.56	616	3.12	642	3.70	668	4.30	694	4.91	720	5.55	746	6.21	772	6.88	826	8.29
13788	613	2.52	641	3.14	667	3.77	692	4.40	715	5.05	738	5.72	761	6.40	784	7.10	807	7.81	853	9.30
15320	668	3.15	695	3.82	719	4.51	743	5.21	765	5.92	786	6.63	807	7.36	828	8.11	848	8.87	890	10.44
16852	725	3.89	749	4.62	773	5.37	795	6.13	816	6.90	836	7.67	856	8.46	875	9.25	894	10.06	931	11.72
18384	781	4.75	805	5.54	827	6.34	848	7.17	868	8.00	887	8.84	906	9.68	924	10.53	942	11.39	977	13.15
19916	838	5.75	861	6.59	882	7.45	902	8.34	921	9.23	940	10.13	957	11.04	975	11.95	992	12.87	1025	14.73
21448	895	6.87	917	7.80	937	8.71	956	9.65	975	10.60	993	11.57	1010	12.54	1027	13.52	1043	14.50	1074	16.47
22980	953	8.15	974	9.16	993	10.14	1012	11.12	1029	12.13	1046	13.16	1063	14.19	1079	15.23	1095	16.28	1125	18.38
24512	1010	9.60	1031	10.68	1050	11.73	1067	12.77	1084	13.83	1101	14.91	1117	16.01	1132	17.11	1148	18.22	1177	20.45
VOL	3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13788	901	10.85	949	12.46	998	14.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15320	931	12.07	973	13.77	1016	15.52	1060	17.32	1104	19.17	-	-	-	-	-	-	-	-	-	-
16852	969	13.44	1006	15.22	1044	17.05	1083	18.93	1122	20.87	1162	22.85	1202	24.87	1243	26.95	-	-	-	-
18384	1011	14.96	1045	16.82	1080	18.74	1115	20.70	1150	22.72	1185	24.79	1221	26.90	1257	29.05	1294	31.25	1331	33.48
19916	1057	16.64	1089	18.59	1120	20.59	1152	22.64	1184	24.75	1216	26.89	1248	29.09	1281	31.32	1314	33.60	1347	35.92
21448	1105	18.49	1135	20.54	1164	22.63	1194	24.77	1223	26.95	1253	29.19	1282	31.46	1312	33.78	1342	36.15	1372	38.55
22980	1154	20.50	1183	22.66	1210	24.85	1238	27.08	1266	29.36	1293	31.68	1321	34.04	1348	36.44	1376	38.89	1404	41.37
24512	1205	22.70	1232	24.96	1259	27.26	1285	29.59	1311	31.96	1337	34.37	1363	36.82	1388	39.31	1414	41.84	1440	44.41
26044	1256	25.07	1283	27.46	1308	29.87	1333	32.31	1358	34.78	1383	37.28	1407	39.82	1431	42.40	1456	45.02	1480	47.67
27576	1309	27.62	1334	30.14	1359	32.67	1383	35.22	1407	37.80	1430	40.41	1453	43.05	1477	45.72	1500	48.43	1522	51.17
29108	1361	30.37	1386	33.02	1410	35.68	1434	38.35	1457	41.04	1479	43.76	1502	46.50	1524	49.27	1546	52.08	1567	54.91
30640	1415	33.33	1439	36.10	1462	38.89	1485	41.69	1507	44.50	1529	47.34	1551	50.19	1572	53.07	1593	55.97	1614	58.90
32172	1468	36.51	1492	39.41	1515	42.32	1537	45.25	1559	48.19	1580	51.14	1601	54.11	1622	57.10	1642	60.11	1662	63.15

Performance shown is for installation type A - Free inlet, Free Outlet

Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

PL402

PERFORMANCE DATA

Wheel Diameter = 40¼ inches
 Tip Speed = 10.54 × RPM
 Maximum BHP = 24.39 (RPM/1000)³

Pressure Class Limits

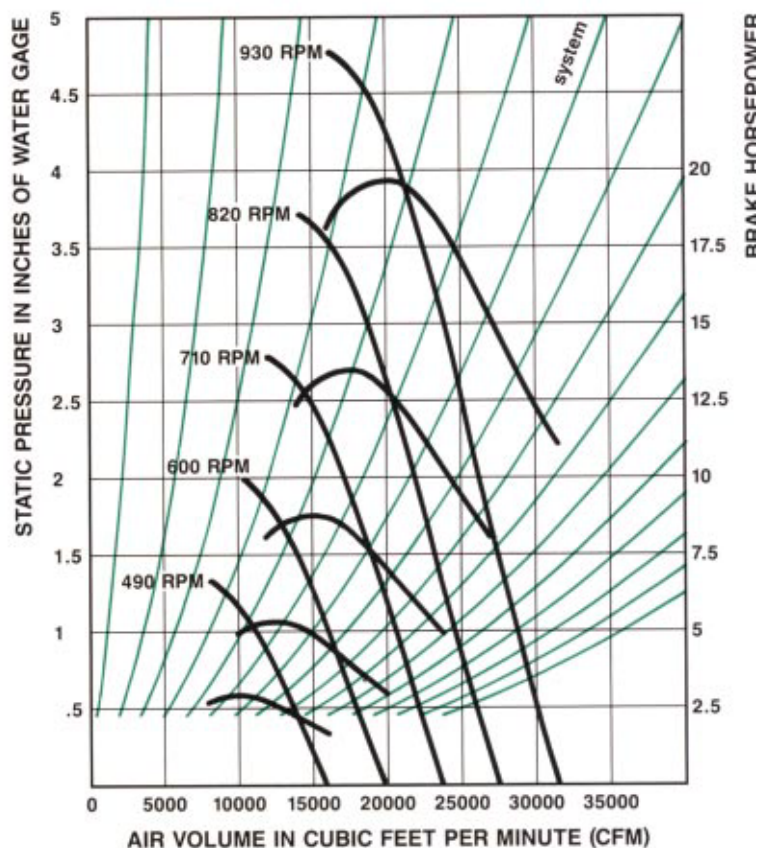
Class	Max. RPM
1	996
2	1297
3	1603

Data in bold face indicates quietest and most efficient performance

	Class I
	Class II
	Class III

Minimum horsepower required to start fan—1½ HP

PEERLESS BLOWERS PLENUM FANS



VOL	.5 SP		.75 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP		2.5 SP		3 SP	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7449	326	0.84	374	1.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9311	366	1.12	403	1.59	441	2.09	480	2.63	-	-	-	-	-	-	-	-	-	-	-	-
11173	411	1.47	443	2.00	474	2.56	505	3.15	537	3.77	570	4.42	604	5.09	-	-	-	-	-	-
13035	458	1.91	487	2.50	514	3.12	541	3.76	568	4.44	595	5.14	622	5.86	650	6.61	678	7.38	-	-
14898	506	2.43	534	3.11	559	3.79	583	4.5	606	5.22	629	5.98	653	6.75	676	7.55	700	8.37	749	10.08
16760	556	3.07	581	3.82	605	4.58	627	5.35	649	6.14	670	6.95	690	7.78	711	8.63	732	9.50	774	11.31
18622	606	3.83	630	4.65	652	5.49	673	6.34	693	7.20	713	8.07	732	8.95	751	9.86	769	10.78	807	12.69
20484	657	4.73	680	5.61	701	6.53	721	7.45	740	8.39	758	9.33	776	10.28	793	11.25	810	12.23	845	14.25
22346	708	5.78	730	6.73	750	7.71	769	8.71	787	9.73	805	10.75	822	11.77	838	12.81	854	13.85	886	15.99
24209	760	6.99	781	8.02	800	9.06	818	10.1	835	11.22	852	12.32	868	13.42	884	14.53	899	15.65	929	17.92
26071	812	8.36	832	9.49	850	10.60	867	11.7	884	12.89	900	14.07	916	15.25	931	16.44	946	17.63	974	20.03
27933	864	9.92	883	11.14	901	12.33	917	13.5	933	14.75	949	16.00	964	17.26	979	18.52	993	19.79	1020	22.35
29795	916	11.67	935	12.99	952	14.26	968	15.53	983	16.82	998	18.13	1013	19.47	1027	20.81	1041	22.15	1067	24.87
VOL	3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16760	817	13.19	860	15.15	905	17.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18622	844	14.68	883	16.74	921	18.87	961	21.06	1001	23.31	-	-	-	-	-	-	-	-	-	-
20484	879	16.34	913	18.50	947	20.73	982	23.02	1017	25.37	1053	27.78	1090	30.25	1127	32.77	-	-	-	-
22346	917	18.19	948	20.45	979	22.78	1011	25.18	1042	27.63	1075	30.14	1107	32.71	1140	35.32	1173	38.00	1207	40.72
24209	958	20.23	987	22.61	1016	25.04	1045	27.54	1074	30.09	1103	32.70	1132	35.37	1162	38.09	1191	40.86	1222	43.68
26071	1002	22.48	1029	24.97	1056	27.52	1082	30.12	1109	32.78	1136	35.49	1163	38.26	1190	41.08	1217	43.95	1244	46.88
27933	1047	24.93	1072	27.55	1098	30.22	1123	32.93	1148	35.70	1173	38.52	1198	41.39	1223	44.31	1248	47.29	1273	50.31
29795	1093	27.60	1117	30.36	1141	33.15	1165	35.99	1189	38.87	1212	41.80	1236	44.77	1259	47.80	1282	50.88	1306	54.00
31657	1139	30.48	1163	33.39	1186	36.32	1209	39.29	1232	42.29	1254	45.34	1276	48.42	1298	51.56	1320	54.74	1342	57.97
33520	1187	33.59	1210	36.65	1232	39.73	1254	42.83	1276	45.97	1297	49.14	1318	52.35	1339	55.60	1360	58.89	1381	62.23
35382	1235	36.94	1257	40.15	1279	43.38	1300	46.64	1321	49.91	1341	53.21	1362	56.55	1382	59.92	1402	63.33	1421	66.78
37244	1283	40.53	1305	43.90	1326	47.29	1347	50.70	1367	54.12	1387	57.56	1406	61.03	1426	64.53	1445	68.06	1464	71.63
39106	1332	44.39	1353	47.92	1374	51.46	1394	55.02	1414	58.60	1433	62.19	1452	65.80	1470	69.44	1489	73.10	1507	76.79

Performance shown is for fan without ducts.

BHP does not include drive losses.

PEERLESS BLOWERS PLENUM FANS

PL445

PERFORMANCE DATA

Wheel Diameter = 44½ inches
 Tip Speed = 11.65 × RPM
 Maximum BHP = 40.29 (RPM/1000)³

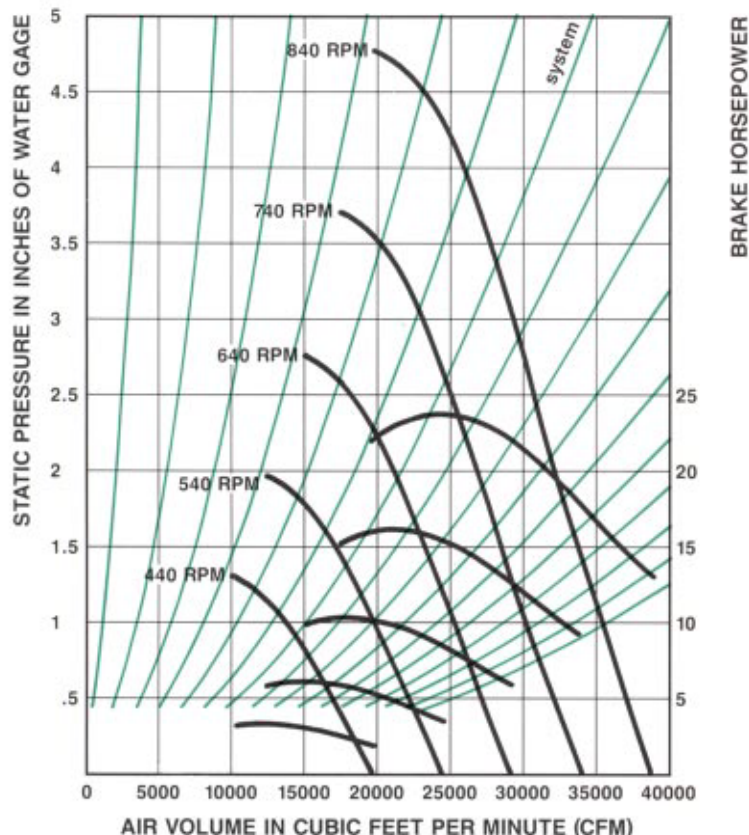
Pressure Class Limits

Class	Max. RPM
1	901
2	1173
3	1450

Data in bold face indicates quietest and most efficient performance

	Class I
	Class II
	Class III

Minimum horsepower required to start fan—2 HP



VOL CFM	.5 SP		.75 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP		2.5 SP		3 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9112	295	1.03	339	1.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11390	331	1.37	365	1.94	399	2.56	435	3.22	-	-	-	-	-	-	-	-	-	-	-	-
13668	372	1.80	401	2.44	429	3.13	457	3.85	486	4.61	515	5.40	546	6.22	-	-	-	-	-	-
15946	414	2.33	441	3.06	465	3.82	490	4.60	514	5.42	538	6.28	563	7.16	588	8.08	614	9.02	-	-
18224	458	2.97	483	3.80	505	4.64	527	5.50	548	6.39	569	7.30	591	8.25	612	9.23	633	10.23	677	12.32
20502	503	3.75	526	4.67	547	5.60	567	6.54	587	7.51	606	8.49	624	9.51	643	10.55	662	11.61	700	13.82
22780	548	4.68	570	5.68	590	6.71	609	7.75	627	8.79	645	9.86	662	10.94	679	12.05	696	13.18	730	15.52
25058	594	5.78	615	6.86	634	7.98	652	9.11	669	10.25	686	11.40	702	12.57	717	13.75	733	14.95	764	17.42
27336	641	7.06	660	8.23	678	9.43	696	10.65	712	11.89	728	13.13	743	14.39	758	15.65	772	16.93	801	19.55
29614	687	8.54	706	9.80	723	11.08	740	12.39	756	13.72	771	15.06	785	16.41	800	17.76	813	19.13	840	21.90
31892	734	10.22	752	11.59	769	12.95	784	14.34	800	15.76	814	17.20	828	18.64	842	20.09	855	21.55	881	24.49
34170	781	12.12	799	13.62	815	15.07	830	16.53	844	18.03	858	19.56	872	21.09	885	22.64	898	24.19	923	27.32
36448	829	14.27	846	15.87	861	17.43	875	18.98	889	20.56	903	22.17	916	23.79	929	25.43	941	27.08	965	30.39
VOL CFM	3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20502	739	16.13	778	18.52	819	21.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22780	764	17.95	798	20.46	833	23.06	869	25.74	906	28.49	-	-	-	-	-	-	-	-	-	-
25058	795	19.97	826	22.62	857	25.34	888	28.14	920	31.01	953	33.96	986	36.97	1020	40.06	-	-	-	-
27336	829	22.23	858	25.00	886	27.85	914	30.77	943	33.77	972	36.84	1001	39.98	1031	43.18	1061	46.44	1092	49.77
29614	867	24.73	893	27.63	919	30.61	945	33.66	971	36.78	997	39.97	1024	43.24	1051	46.56	1078	49.95	1105	53.40
31892	906	27.48	931	30.52	955	33.63	979	36.81	1003	40.06	1027	43.38	1052	46.77	1076	50.22	1101	53.73	1126	57.30
34170	947	30.48	970	33.68	993	36.94	1016	40.26	1038	43.64	1061	47.08	1083	50.59	1106	54.17	1129	57.80	1151	61.50
36448	988	33.73	1011	37.11	1032	40.52	1054	43.99	1075	47.51	1096	51.09	1118	54.73	1139	58.43	1160	62.19	1181	66.01
38726	1030	37.26	1052	40.81	1073	44.40	1094	48.02	1114	51.69	1134	55.41	1154	59.19	1174	63.02	1194	66.91	1214	70.86
41004	1073	41.06	1094	44.80	1115	48.56	1134	52.36	1154	56.19	1173	60.06	1192	63.99	1211	67.96	1230	71.98	1249	76.06
43282	1117	45.15	1137	49.08	1157	53.03	1176	57.00	1195	61.01	1213	65.04	1232	69.12	1250	73.24	1268	77.41	1286	81.62
45560	1160	49.54	1180	53.67	1199	57.81	1218	61.97	1236	66.15	1254	70.36	1272	74.60	1289	78.88	1307	83.20	1324	87.56
47838	1204	54.26	1224	58.57	1243	62.91	1261	67.26	1279	71.62	1296	76.01	1313	80.43	1330	84.87	1347	89.35	1363	93.87

Performance shown is for fan without ducts.

BHP does not include drive losses.

PL490

PERFORMANCE DATA

Wheel Diameter = 49 inches
 Tip Speed = 12.83 × RPM
 Maximum BHP = 65.22 (RPM/1000)³

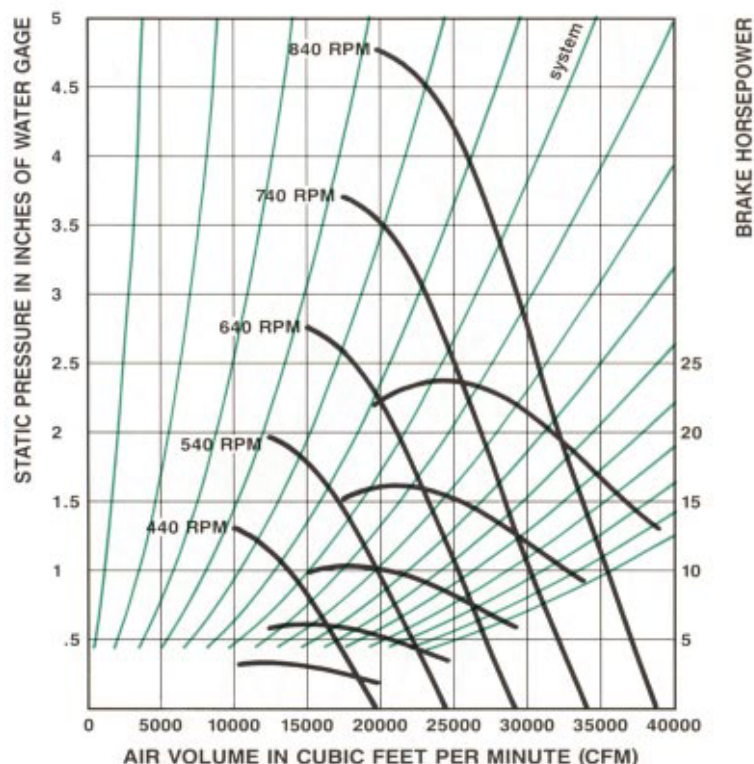
Pressure Class Limits

Class	Max. RPM
1	818
2	1066
3	1316

Data in bold face indicates quietest and most efficient performance

	Class I
	Class II
	Class III

PEERLESS BLOWERS PLENUM FANS

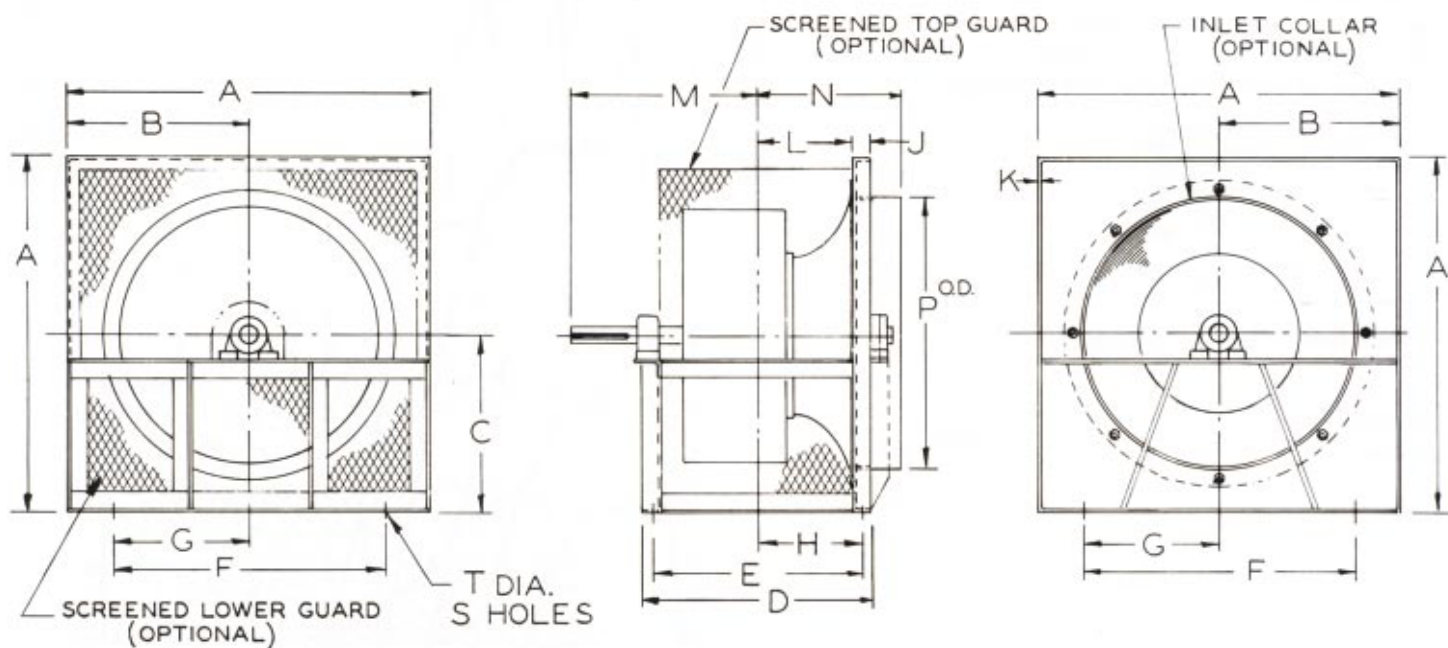


VOL CFM	.5 SP		.75 SP		1 SP		1.25 SP		1.50 SP		1.75 SP		2 SP		2.25 SP		2.5 SP		3 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11040	268	1.25	308	1.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13800	301	1.66	331	2.35	362	3.10	395	3.90	-	-	-	-	-	-	-	-	-	-	-	-
16560	337	2.18	364	2.96	389	3.79	415	4.66	441	5.58	468	6.54	496	7.54	-	-	-	-	-	-
19320	376	2.82	400	3.71	423	4.63	445	5.58	466	6.57	489	7.61	511	8.68	534	9.8	557	10.9	-	-
22080	416	3.61	438	4.61	459	5.62	479	6.67	498	7.74	517	8.86	536	10.00	556	11.2	575	12.4	615	14.9
24840	457	4.55	478	5.66	497	6.79	515	7.94	533	9.10	550	10.30	567	11.53	584	12.8	601	14.1	636	16.8
27600	498	5.67	518	6.89	536	8.13	553	9.39	570	10.66	585	11.95	601	13.27	617	14.6	632	16.0	663	18.8
30360	540	7.01	558	8.32	576	9.67	592	11.05	608	12.43	623	13.83	637	15.24	652	16.7	666	18.1	694	21.1
33120	582	8.57	599	9.98	616	11.43	632	12.92	647	14.42	661	15.93	675	17.45	688	19.0	702	20.5	728	23.7
35880	624	10.35	641	11.88	657	13.43	672	15.02	686	16.63	700	18.26	713	19.89	726	21.5	739	23.2	763	26.6
38640	667	12.39	683	14.06	698	15.70	712	17.39	726	19.11	739	20.85	752	22.60	765	24.4	777	26.1	800	29.7
41400	710	14.69	726	16.51	740	18.27	754	20.05	767	21.87	779	23.71	792	25.58	804	27.5	816	29.3	838	33.1
44160	752	17.30	768	19.25	782	21.14	795	23.02	808	24.93	820	26.88	832	28.85	843	30.8	855	32.8	877	36.8
VOL CFM	3.5 SP		4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24840	671	19.55	707	22.45	744	25.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27600	694	21.76	725	24.81	757	27.96	789	31.21	823	34.55	-	-	-	-	-	-	-	-	-	-
30360	722	24.22	750	27.42	778	30.72	807	34.12	836	37.60	865	41.18	895	44.83	926	48.6	-	-	-	-
33120	753	26.96	779	30.31	804	33.76	830	37.31	856	40.95	883	44.67	909	48.47	936	52.4	964	56.3	992	60.3
35880	787	29.99	811	33.50	835	37.11	858	40.81	882	44.60	906	48.47	930	52.42	954	56.5	979	60.6	1004	64.7
38640	823	33.31	845	37.01	867	40.78	889	44.64	911	48.58	933	52.60	955	56.70	977	60.9	1000	65.1	1022	69.5
41400	860	36.95	881	40.84	902	44.79	922	48.81	943	52.91	963	57.09	984	61.34	1004	65.7	1025	70.1	1046	74.6
44160	897	40.90	918	44.99	938	49.13	957	53.34	976	57.60	996	61.94	1015	66.36	1034	70.8	1053	75.4	1073	80.0
46920	936	45.17	955	49.48	975	53.83	993	58.22	1012	62.68	1030	67.19	1048	71.77	1066	76.4	1084	81.1	1102	85.9
49680	975	49.78	994	54.32	1012	58.88	1030	63.48	1048	68.13	1065	72.83	1083	77.58	1100	82.4	1117	87.3	1134	92.2
52440	1014	54.74	1033	59.51	1050	64.30	1068	69.12	1085	73.97	1102	78.86	1118	83.81	1135	88.8	1151	93.9	1168	99.0
55200	1054	60.07	1072	65.07	1089	70.09	1106	75.13	1123	80.20	1139	85.31	1155	90.45	1171	95.6	1187	100.9	1202	106.2
57960	1094	65.79	1111	71.02	1128	76.27	1145	81.55	1161	86.84	1177	92.17	1193	97.52	1208	102.9	1223	108.3	1238	113.8

Performance shown is for fan without ducts.

BHP does not include drive losses.

PEERLESS BLOWERS PLENUM FANS



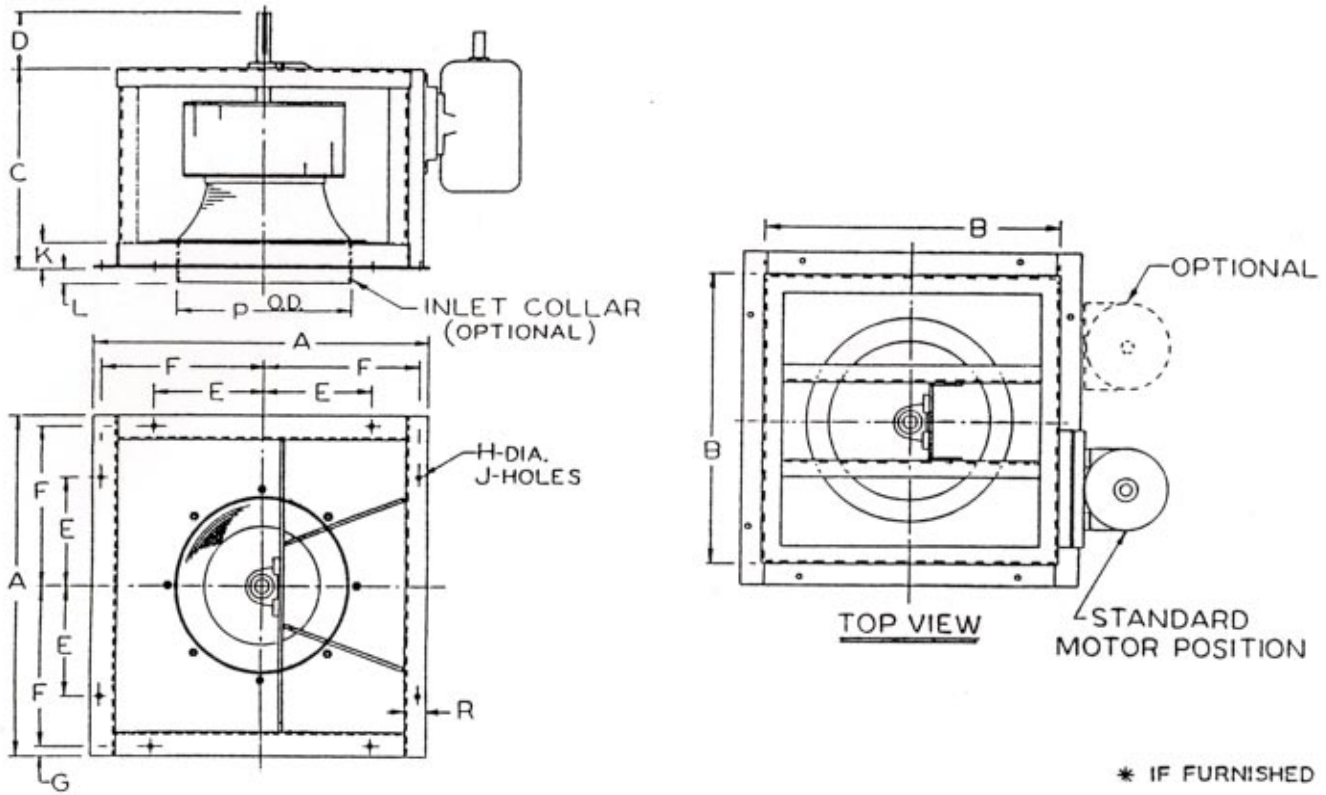
* IF FURNISHED

Plenum Fans

Size	Whl. Dia.	CL I		CL II		A	B	C	D	E	F	G	H	J	K	L	M		N*	P*	T	S
		Shaft Dia.	Keyway	Shaft Dia.	Keyway												CL I	CL II				
PL150	15	1	1/4 x 1/8 x 3-1/2	1-3/16	1/4 x 1/8 x 3-1/2	23	11-1/2	11-1/2	14-3/4	13-1/4	18	9	6-5/8	1-1/2	14GA	5-7/8	12-1/2	12-3/4	9-3/8	16-1/8	9/16	4
PL165	16-1/2	1	1/4 x 1/8 x 3-1/2	1-3/16	1/4 x 1/8 x 4	25-1/4	12-5/8	12-5/8	16	14-1/2	20-1/4	10-1/8	7-1/4	1-1/2	14GA	6-1/2	13-1/8	13-7/8	10	17-7/8	9/16	4
PL182	18-1/4	1-3/16	1/4 x 1/8 x 3-1/2	1-7/16	3/8 x 3/16 x 4	30	15	15	18-1/4	16-1/2	24	12	8-1/4	2	1/8	7-1/8	14	14-5/8	11-1/8	19-5/8	9/16	4
PL200	20	1-3/16	1/4 x 1/8 x 3-1/2	1-7/16	3/8 x 3/16 x 4	33	16-1/2	16-1/2	19-7/8	18-1/8	27	13-1/2	9-1/16	2	1/8	7-15/16	14-7/8	15-1/2	12	21-1/2	9/16	4
PL222	22-1/4	1-3/16	1/4 x 1/8 x 3-1/2	1-7/16	3/8 x 3/16 x 4	35	17-1/2	17-1/2	21-3/8	19-5/8	29	14-1/2	9-13/16	2	1/8	8-11/16	15-5/8	16-7/8	12-3/4	23-7/8	9/16	4
PL245	24-1/2	1-7/16	3/8 x 3/16 x 3-1/2	1-7/16	3/8 x 3/16 x 5	38-3/4	19-3/8	19-3/8	23-1/4	21-1/2	32	16	10-3/4	2	1/8	9-5/8	16-5/8	18-7/8	13-5/8	26-1/4	9/16	4
PL270	27	1-7/16	3/8 x 3/16 x 6	1-7/16	3/8 x 3/16 x 6	42	21	21	25-7/16	23-1/2	36	18	11-3/4	2-3/16	3/16	10-5/8	19-7/8	20-5/8	14-7/8	29	7/8	4
PL300	30	1-11/16	3/8 x 3/16 x 6	1-11/16	3/8 x 3/16 x 6	46-3/4	23-3/8	23-3/8	27-9/16	25-5/8	40-3/4	20-3/8	12-13/16	2-3/16	3/16	11-11/16	21-1/4	22	16-3/8	32-1/4	7/8	4
PL330	33	1-11/16	3/8 x 3/16 x 6	1-11/16	3/8 x 3/16 x 6	51-1/4	25-5/8	25-5/8	30-1/16	28-1/8	45-1/4	22-5/8	14-1/16	2-3/16	3/16	12-15/16	22-1/2	23-1/4	17-5/8	35-3/8	7/8	4
PL365	36-1/2	1-15/16	1/2 x 1/4 x 6	1-15/16	1/2 x 1/4 x 6	56-3/4	28-3/8	28-3/8	32-11/16	30-3/4	50-3/4	25-3/8	15-3/8	2-3/16	3/16	14-1/4	24-1/8	24-3/4	19-1/2	39	7/8	4

All dimensions are nominal and subject to change without notice unless approved via certified submittal by Madison Manufacturing Company.

PEERLESS BLOWERS PLENUM FANS



Plenum Fan-Vertical Mounted

Size	Wht. Dia.	CL I		CL II		A	B	C	D		E	F	G	H	J	K	L*	P*	R
		Shaft Dia.	Keyway	Shaft Dia.	Keyway				CL I	CL II									
PL150	15	1	1/4 x 1/8 x 3-1/2	1-3/16	1/4 x 1/8 x 3-1/2	27-5/8	23	15-13/16	5	5-1/2	9	14-9/16	1-1/8	9/16	8	2-9/16	1	16-1/8	2-1/2
PL165	16-1/2	1	1/4 x 1/8 x 3-1/2	1-3/16	1/4 x 1/8 x 4	29-7/8	25-1/4	17-1/16	5	5-1/2	10-1/8	16-1/16	1-1/8	9/16	8	2-9/16	1	17-7/8	2-1/2
PL182	18-1/4	1-3/16	1/4 x 1/8 x 3-1/2	1-7/16	3/8 x 3/16 x 4	34-5/8	30	18-7/8	5	5-1/2	12	18-7/16	1-1/8	9/16	8	2-5/8	1-3/8	19-5/8	2-1/2
PL200	20	1-3/16	1/4 x 1/8 x 3-1/2	1-7/16	3/8 x 3/16 x 4	37-5/8	33	20-1/2	5	5-1/2	13-1/2	19-15/16	1-1/8	9/16	8	2-5/8	1-3/8	21-1/2	2-1/2
PL222	22-1/4	1-3/16	1/4 x 1/8 x 3-1/2	1-7/16	3/8 x 3/16 x 4	39-5/8	35	22	5	6	14-1/2	20-15/16	1-1/8	9/16	8	2-5/8	1-3/8	23-7/8	2-1/2
PL245	24-1/2	1-7/16	3/8 x 3/16 x 3-1/2	1-7/16	3/8 x 3/16 x 5	43-3/8	38-3/4	24-1/8	5	7	16	22-13/16	1-1/8	9/16	8	2-5/8	1-3/8	26-1/4	2-1/2
PL270	27	1-7/16	3/8 x 3/16 x 6	1-7/16	3/8 x 3/16 x 6	46-5/8	42	25-15/16	7	8	18	24-7/16	1-1/8	7/8	8	2-11/16	1-1/2	29	2-1/2
PL300	30	1-11/16	3/8 x 3/16 x 6	1-11/16	3/8 x 3/16 x 6	51-3/8	46-3/4	28-1/16	7-1/2	8	20-3/8	26-13/16	1-1/8	7/8	8	2-11/16	2	32-1/2	2-1/2
PL330	33	1-11/16	3/8 x 3/16 x 6	1-11/16	3/8 x 3/16 x 6	55-7/8	51-1/4	30-9/16	7-1/2	8	22-5/8	29-1/16	1-1/8	7/8	8	2-11/16	2	35-3/8	2-1/2
PL365	36-1/2	1-15/16	1/2 x 1/4 x 6	1-15/16	1/2 x 1/4 x 6	62-3/8	56-3/4	33-11/16	7-1/2	8	25-3/8	32-7/16	1-1/4	7/8	8	3-3/16	2	39	3

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PEERLESS BLOWERS

One Madison Avenue, P.O. Box 187
Hot Springs, NC 28743-0187
828/622-7500 • 1-800/613-4766 • Fax: 828/622-3309

www.peerlessblowers.com

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