



CENTRIFAN

IN-LINE CENTRIFUGAL FANS



PEERLESS-WINSMITH, INC.
**VENTILATION
EQUIPMENT**

PEERLESS ELECTRIC

MADISON MANUFACTURING COMPANY

AFFILIATE OF PEERLESS-WINSMITH, INC.

CENTRIFAN® IN-LINE CENTRIFUGAL FAN

The Peerless Electric Centrifan® represents the latest development in the fan and blower industry. Incorporating the tried and proven, highly efficient “Peerless” wheel in a vane-equipped tube (except on size C1050), the Centrifan® thus offers the combination of superior performance comparable to scroll type centrifugal fans and minimum space requirements formerly associated only with axial fan types.

In addition to the obvious space saving advantages of the tubular design, the need for duct turns and transition pieces is eliminated, thus providing simpler and less costly installation. Inlet and outlet diameters are identical and floor, wall or ceiling installation for vertical or horizontal airflow can be made with equal ease.

Fourteen standard sizes with wheel diameter from 10-1/2” thru 36” are available. **AMCA** Standards defining wheel diameters are observed throughout. Capacities range to 37,520 CFM and 8-1/2 static pressure.

The consolidation of the centrifugal wheel in the multiple conversion vane equipped tube on sizes C1220 and larger has produced a highly efficient, unusually quiet, compact unit having stable pressure and non-overloading horsepower characteristics.

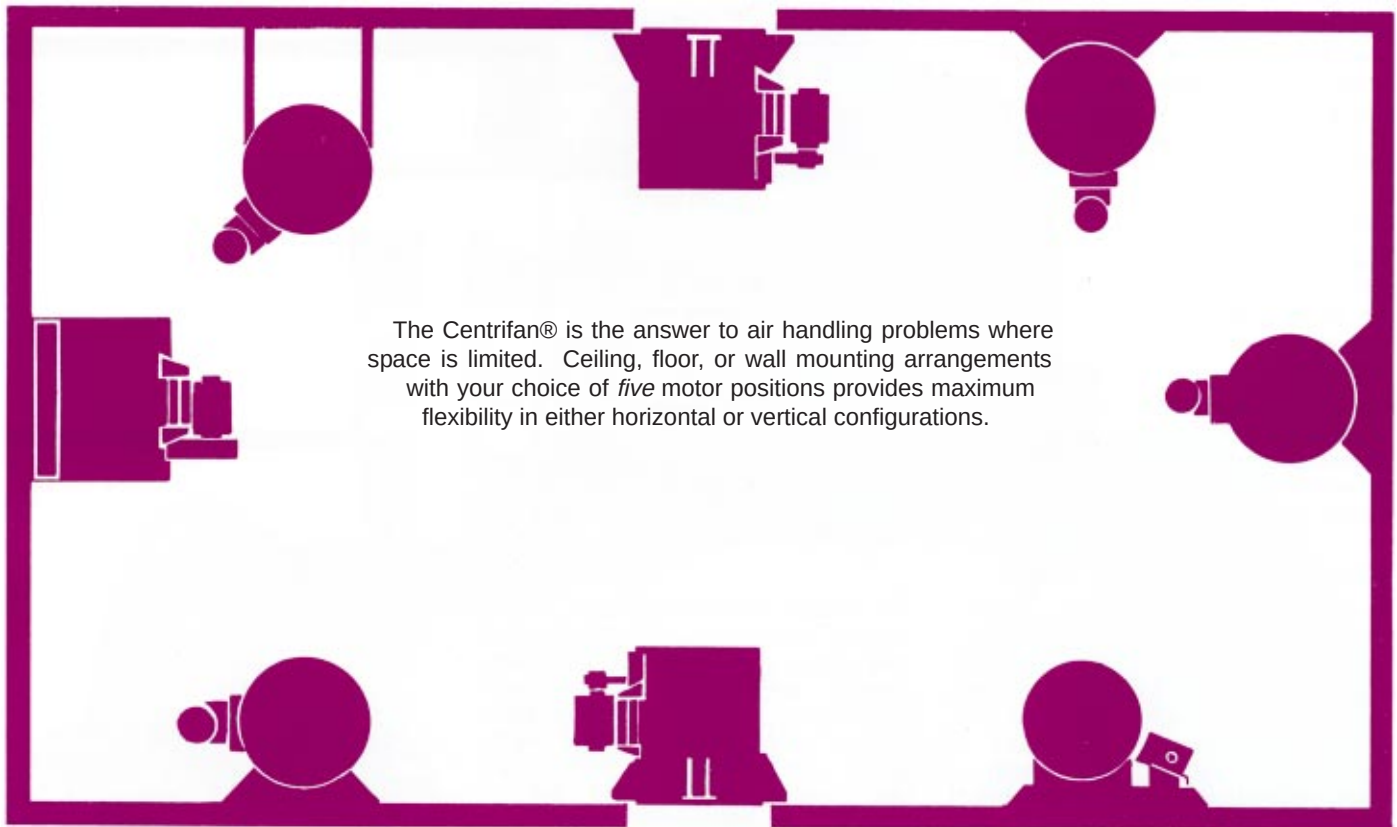


Arrangement 9
Fig. “1” Motor Pos. “A”



Arrangement 1
Fig. “1” Motor Pos. “Left”

CENTRIFAN® MOUNTING POSITIONS



Centrifan Motor Positions

Letters Designate Motor Positions. All Figures Show Discharge End.

Arrangement 9

Fig. 1
Floor Mounted

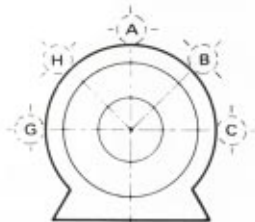


Fig. II
Ceiling Mounted

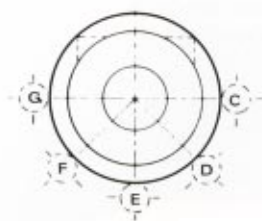


Fig. III
Left Wall Mounted

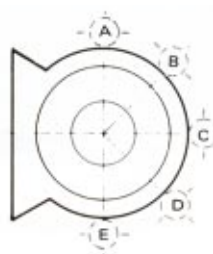
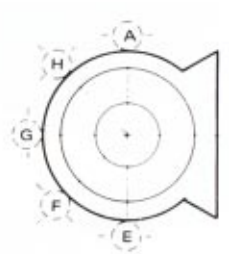


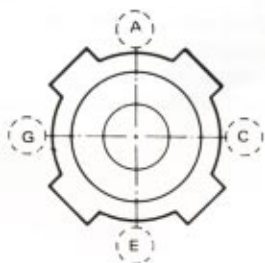
Fig. IV
Right Wall Mounted



View Facing Discharge

Arrangement 4 and 9

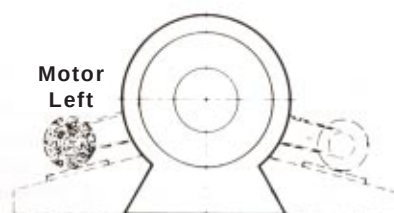
Fig. VI
Vertical Mounting



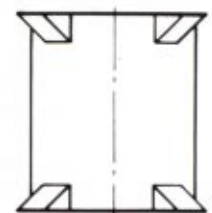
Arrangement 1

Floor Mounting

Ceiling Mounting Brackets



View Facing Discharge



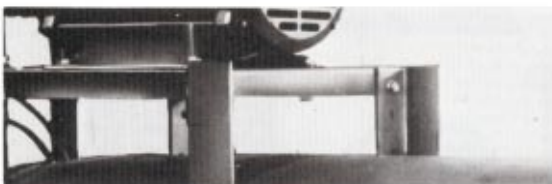
Floor Mounting Brackets

Fig. VI
Vertical Mounting

CENTRIFAN® CONSTRUCTION FEATURES

Adjustable Motor Base

The Arrangement 9 Centrifan® is equipped with a heavy-duty motor base designed to accept a standard NEMA frame motor. This base is pivoted at one end for easy, accurate belt adjustment.



Conversion Vanes

The aerodynamically designed conversion vane system not only straightens the airflow, but also assures turbulent free flow at the discharge which minimizes noise.

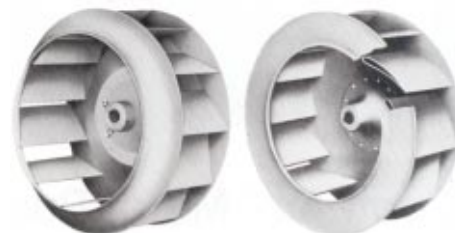


Note: Due to size limitations, conversion vanes are not included on size C1050. It is suggested that straightening vanes be added to duct immediately following discharge

Wheels

Centrifan® in-line centrifugal units utilize airfoil bladed wheels in all sizes 27" wheel diameter and above. The flat backward curve wheel is utilized in sizes 24-1/2" wheel diameter and below. The airfoil wheels have been designed to produce ultra high efficiency over a broad performance range with extremely low sound generation. Hollow heavy gauge airfoil blades, aerodynamically engineered, are die formed in one piece

and welded at the trailing edge. Blades are then welded in special jigs to a spun inlet section and a heavy-duty back-plate. Rugged cast iron hubs are used, with bore, keyways, and concentricity machined to close tolerances. The Peerless Electric airfoil bladed wheel represents the ultimate in centrifugal wheel construction and is designed for optimum trouble-free performance and longevity



Anti-Friction Bearings

Centrifan® in-line centrifugal units are equipped with self-aligning single row ball bearings, double row tapered or spherical roller bearings.

Bearings selected have effective seals to retain the lubricant and to prevent against contamination. All have extended lube lines with grease fittings for relubrication.

Computerized selections have been made on all bearings based on radial, thrust and combined loads to give 100,000 average life hours (AFBMA-L₅₀) at the maximum design of each blower class.

See table on page 7 for the type bearings used for each unit. Also listed are bearings available for 400,000 average life hours (AFBMA-L₅₀).

Madison Manufacturing Company reserves the right to change bearings of equal ratings



Housing

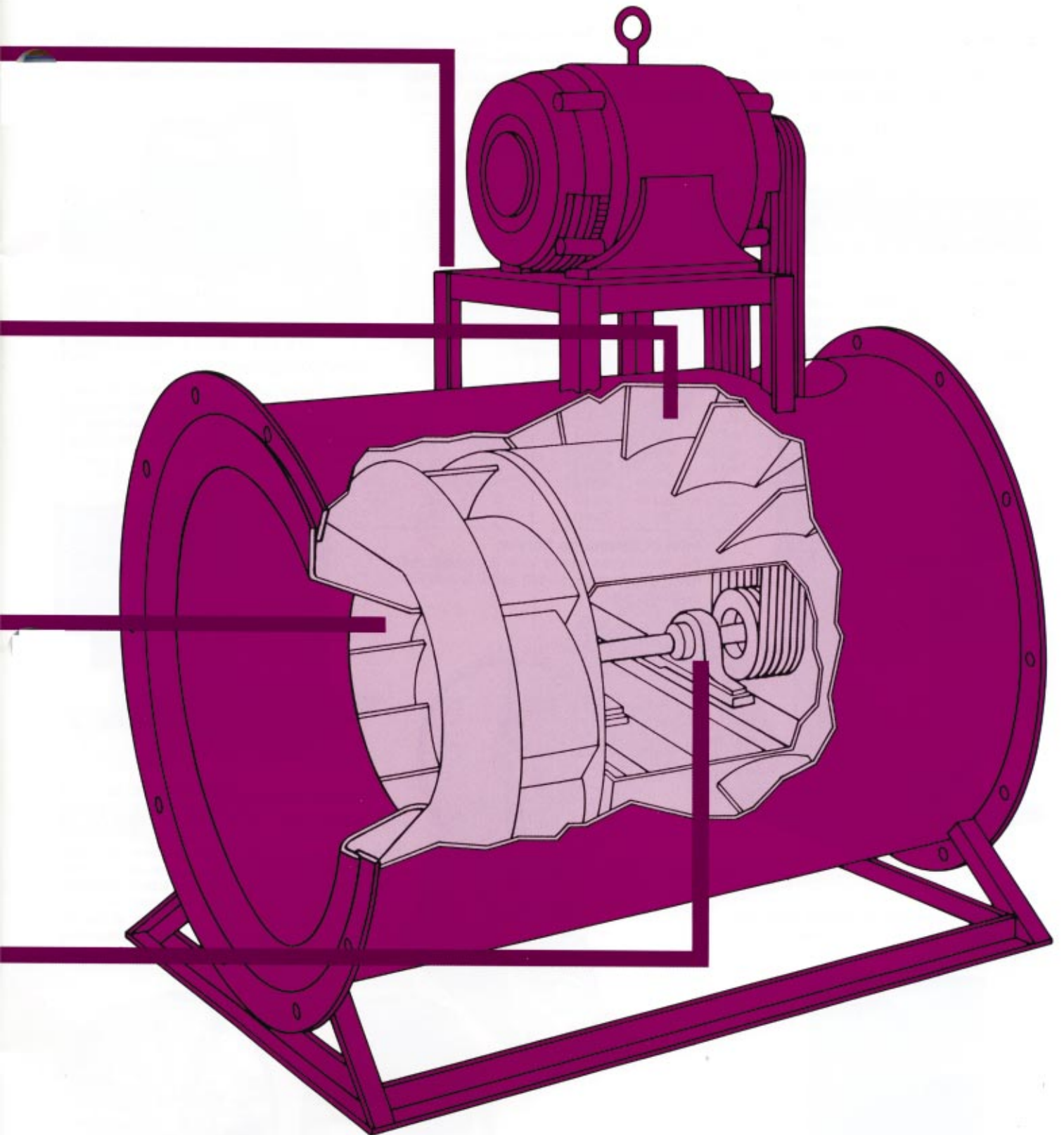
Rugged heavy gauge steel tubular housings containing curved conversion vanes are all welded. All sizes are furnished with flanged inlet and outlet. Inner cylinder and belt duct shield bearings and drive from the airstream. Standard units are furnished with an integral adjustable motor base in Arrangement No. 9. For still more versatility, Arrangement No. 1 is available, in which the motor is located adjacent to the fan housing on a separate adjustable base and the entire assembly mounted on a common base.

. Arrangement No. 4, direct drive, is also available in Size C3650 and smaller.

Static and Dynamic Balancing

Complete wheel assemblies of all sizes are statically and dynamically balanced on electronically controlled balancing machines. The necessary weights are

arc welded into place to insure permanent balance of the wheel. After complete blower assembly the unit is operated as part of the rigid final inspection. Balance is again checked with portable electronic balancing equipment and refinements are made if required. Balance is then certified with a "certified balance" sticker.



CENTRIFAN® ACCESSORIES

The Centrifan performance ratings in this catalog result from test of standard equipment without accessories in place. The combining of several of the accessory items in the air stream may result in variations in air delivery from that shown in the performance tables. Where application is critical and/or unusual, it is recommended that you contact your local Peerless representative for engineering assistance in selection of accessory equipment.

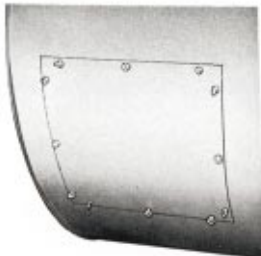
Roof Fan

Sizes C1220 through C4900 are available for roof mounting by using a curb cap and stack hood with built in butterfly damper is 3200 FPM.



Access Door

Bolted and quick opening access doors are available, if required, to facilitate impeller inspection



Weatherproof Drive Cover

Drive covers as shown can be furnished when required to completely shield motor and drives from effects of weather.



Inlet or Discharge Screen

For installation where inlet is non-ducted, heavy gauge metal screen guard is available as illustrated.



Belt Guard

Heavy gauge metal guards are furnished for personnel protection when required.



Ultra Swing Centrifan

Ultra Swing Centrifans are specifically constructed for readily accessible inspections. The side latches open to allow viewing of all inside parts. Fans are vertical mount upblast, Class 1, sizes C1820 to C4900.



Radial Inlet Vane

Radial inlet vanes are available for all Centrifan® sizes. Nested vanes are located in the inlet cone as illustrated below left, sizes C2700 and up. Duct type vanes, as illustrated below right, are standard on sizes C1050 thru C2450. Vanes can be operated manually or by automatic control devices. Vanes for manual operation are equipped with quadrant and locking device



CENTRIFAN® MATERIAL SPECIFICATION

The Centrifan® in-line centrifugal blowers are manufactured to AMCA standard wheel diameters in sizes C1050 through C4900, as shown below in the material

specification chart. Standard construction for the Centrifan® is: steel housing, bearing support, wheels and shaft. Special materials, such as aluminum,

stainless steel, high tensile steel or special coatings are also available. Contact the factory for pricing on special items or unusual requirements

CENTRIFANS - CLASS I

SIZE	HOUSING BAND	BEARING HOUSING	ANGLE FLANGE	SHAFT DIA.	BEARING	
					100,000 HOURS	400,000 HOURS
C 1050	12 GA.	16 GA.	1 X 12 GA.	1	A	C
C 1220	12 GA.	16 GA.	1 X 12 GA.	1	A	C
C 1350	12 GA.	16 GA.	1 X 12 GA.	1	A	C
C 1500	12 GA.	14 GA.	1 X 12 GA.	1	A	C
C 1650	12 GA.	14 GA.	1 X 12 GA.	1	A	C
C 1820	12 GA.	14 GA.	1 X 12 GA.	1-3/16	A	C
C 2000	10 GA.	12 GA.	1-1/4 X 10 GA.	1-3/16	A	C
C 2220	10 GA.	12 GA.	1-1/4 X 10 GA.	1-3/16	A	C
C 2450	10 GA.	12 GA.	1-1/4 X 10 GA.	1-7/16	A	C
C 2700	10 GA.	12 GA.	1-1/4 X 10 GA.	1-11/16	A	C
C 3000	10 GA.	12 GA.	1-1/4 X 10 GA.	1-11/16	A	C
C 3300	12 GA.	12 GA.	2 X 2 X 3/16	1-15/16	A	C
C 3650	12 GA.	12 GA.	2 X 2 X 3/16	2-3/16	B	C
C 4020	12 GA.	12 GA.	2-1/2 X 2-1/2 X 3/16	2-3/16	C	D
C 4450	12 GA.	12 GA.	2-1/2 X 2-1/2 X 3/16	2-3/16	C	D
C 4900	10 GA.	10 GA.	2-1/2 X 2-1/2 X 3/16	2-7/16	C	D

CENTRIFANS - CLASS II

SIZE	HOUSING BAND	BEARING HOUSING	ANGLE FLANGE	SHAFT DIA.	BEARING	
					100,000 HOURS	400,000 HOURS
C 1050	12 GA.	16 GA.	1 X 12 GA.	1	A	C
C 1220	12 GA.	16 GA.	1 X 12 GA.	1-3/16	A	C
C 1350	12 GA.	16 GA.	1 X 12 GA.	1-3/16	A	C
C 1500	12 GA.	14 GA.	1 X 12 GA.	1-3/16	A	C
C 1650	12 GA.	14 GA.	1 X 12 GA.	1-7/16	A	D
C 1820	12 GA.	14 GA.	1 X 12 GA.	1-7/16	A	D
C 2000	10 GA.	12 GA.	1-1/4 X 10 GA.	1-7/16	C	D
C 2220	10 GA.	12 GA.	1-1/4 X 10 GA.	1-11/16	B	D
C 2450	10 GA.	12 GA.	1-1/4 X 10 GA.	1-11/16	B	D
C 2700	10 GA.	12 GA.	1-1/4 X 10 GA.	1-15/16	C	D
C 3000	10 GA.	12 GA.	1-1/4 X 10 GA.	1-15/16	C	D
C 3300	12 GA.	12 GA.	2 X 2 X 3/16	2-3/16	C	D
C 3650	12 GA.	12 GA.	2 X 2 X 3/16	2-3/16	C	D
C 4020	12 GA.	12 GA.	2-1/2 X 2-1/2 X 3/16	2-7/16	C	D
C 4450	12 GA.	12 GA.	2-1/2 X 2-1/2 X 3/16	2-11/16	C	D
C 4900	10 GA.	10 GA.	2-1/2 X 2-1/2 X 3/16	2-15/16	C	D

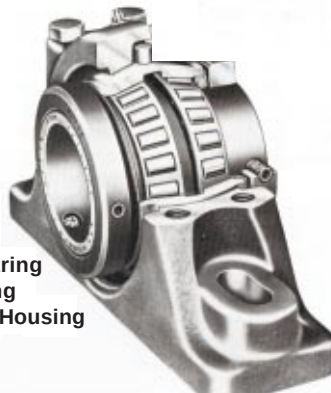
Contact factory for larger fan sizes



A-Normal Duty Self-Aligning Ball Bearing Pillow Block with Single Locking Collar



**B-Normal Duty
C-Medium Duty
Self-Aligning Ball Bearing Pillow Block with Double Locking Collars**



D-Heavy Duty Self-Aligning Tapered Roller Bearing with Double Locking Collars. Two Piece Housing

CENTRIFAN PERFORMANCE SPECIFICATIONS

C1050

WHEEL DIAMETER—10½"

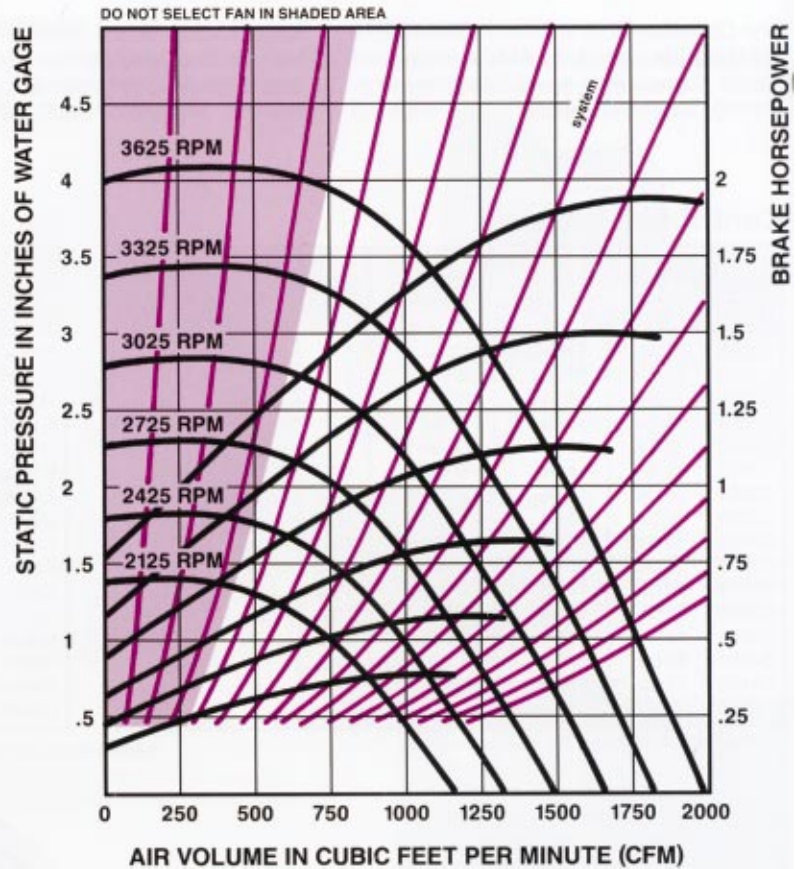
TIP SPEED = 2.749 × RPM

MAX. HP = .0408 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 14⅛"
Area = 1.087 Ft²

CLASS 1 = 4166 MAX. RPM

CLASS 2 = 4710 MAX. RPM



VOL CFM	VEL FPM	0.25 SP		0.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
435	400	1139	0.06	1403	0.10	1637	0.15	1851	0.20	-	-	-	-	-	-	-	-	-	-	-	-
544	500	1288	0.09	1522	0.14	1729	0.19	1922	0.25	2102	0.31	2273	0.38	-	-	-	-	-	-	-	-
652	600	1446	0.12	1661	0.18	1848	0.24	2022	0.31	2186	0.37	2343	0.45	2638	0.60	2912	0.78	-	-	-	-
761	700	1613	0.17	1811	0.24	1984	0.31	2143	0.38	2294	0.45	2438	0.53	2711	0.69	2968	0.87	3211	1.07	3442	1.28
870	800	1788	0.23	1968	0.31	2130	0.39	2279	0.46	2419	0.54	2553	0.63	2807	0.80	3046	0.99	3275	1.19	3493	1.40
978	900	1971	0.31	2130	0.39	2284	0.48	2424	0.57	2556	0.65	2681	0.74	2919	0.93	3144	1.13	3359	1.34	3565	1.56
1087	1000	2157	0.41	2298	0.49	2442	0.59	2576	0.69	2701	0.78	2820	0.88	3044	1.08	3256	1.29	3459	1.51	3654	1.74
1196	1100	2342	0.52	2473	0.62	2605	0.72	2733	0.82	2852	0.93	2966	1.04	3179	1.25	3380	1.48	3572	1.71	3757	1.95
1304	1200	2527	0.65	2653	0.76	2773	0.87	2893	0.98	3008	1.10	3117	1.21	3321	1.45	3513	1.68	3696	1.93	3873	2.18
1413	1300	2715	0.81	2838	0.93	2945	1.04	3057	1.16	3167	1.29	3272	1.41	3469	1.66	3653	1.92	3828	2.18	3997	2.44
1522	1400	2911	1.00	3024	1.12	3123	1.24	3226	1.37	3330	1.50	3431	1.63	3621	1.91	3799	2.18	3968	2.45	4129	2.73
1631	1500	3109	1.21	3209	1.34	3305	1.47	3399	1.60	3496	1.74	3593	1.88	3777	2.17	3949	2.46	4112	2.75	4268	3.05
1739	1600	3288	1.43	3394	1.59	3490	1.73	3576	1.86	3666	2.01	3758	2.15	3935	2.46	4102	2.77	4261	3.08	4412	3.40
1848	1700	3473	1.72	3579	1.86	3676	2.02	3758	2.16	3841	2.31	3926	2.46	4096	2.78	4259	3.11	4413	3.44	4560	3.77
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
870	800	3703	1.63	3905	1.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
978	900	3764	1.79	3956	2.03	4143	2.29	4324	2.56	4500	2.83	-	-	-	-	-	-	-	-	-	-
1087	1000	3843	1.98	4026	2.23	4204	2.49	4377	2.76	4546	3.04	-	-	-	-	-	-	-	-	-	-
1196	1100	3937	2.20	4111	2.46	4281	2.72	4447	3.00	4608	3.28	-	-	-	-	-	-	-	-	-	-
1304	1200	4044	2.44	4210	2.71	4372	2.99	4531	3.27	4686	3.56	-	-	-	-	-	-	-	-	-	-
1413	1300	4161	2.71	4320	2.99	4475	3.28	4627	3.58	-	-	-	-	-	-	-	-	-	-	-	-
1522	1400	4286	3.02	4439	3.31	4588	3.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1631	1500	4419	3.35	4566	3.65	4709	3.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1739	1600	4558	3.71	4699	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1848	1700	4701	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

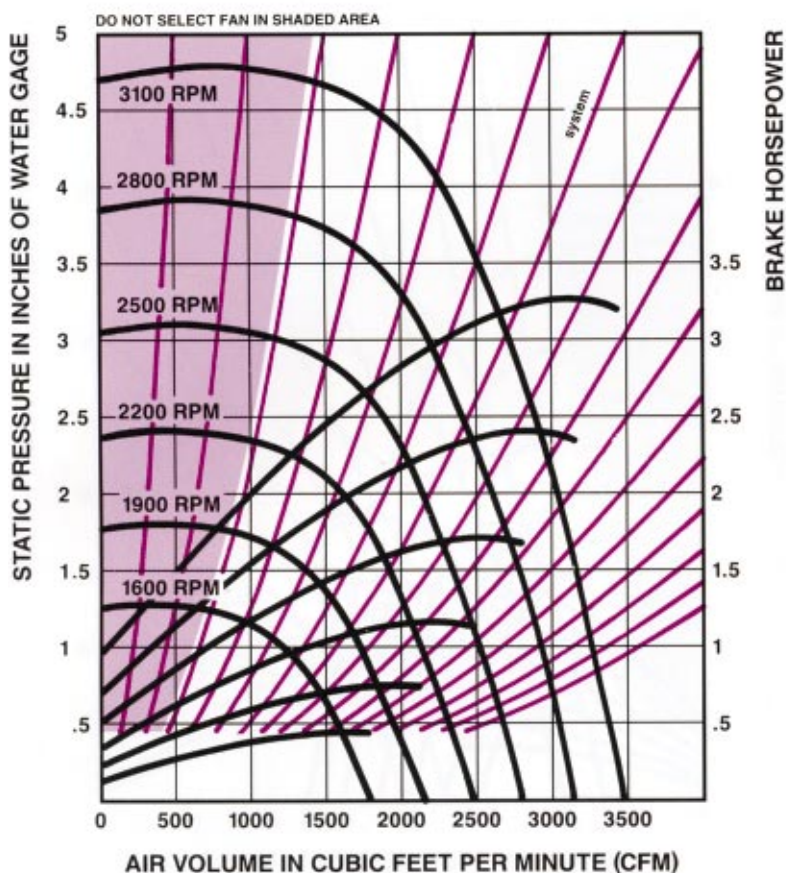
BHP DOES NOT INCLUDED DRIVE LOSSES.

PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET DUCT.

CLASS I BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS



C1220

WHEEL DIAMETER—12¼"

TIP SPEED = 3.207 × RPM

MAX. HP = .1099 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 16⁹/₁₆"
Area = 1.50 Ft²

CLASS 1 = 3273 MAX. RPM

CLASS 2 = 4072 MAX. RPM

VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	400	793	0.05	1036	0.10	1248	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
750	500	875	0.07	1080	0.12	1272	0.19	1448	0.26	1609	0.33	-	-	-	-	-	-	-	-	-	-
900	600	975	0.10	1147	0.16	1316	0.22	1477	0.30	1629	0.38	1771	0.46	-	-	-	-	-	-	-	-
1050	700	1086	0.14	1231	0.20	1379	0.27	1524	0.34	1663	0.43	1797	0.52	2046	0.72	2274	0.93	-	-	-	-
1200	800	1201	0.19	1329	0.25	1457	0.33	1587	0.41	1714	0.49	1837	0.59	2072	0.79	2292	1.02	2496	1.26	-	-
1350	900	1318	0.25	1435	0.32	1548	0.40	1663	0.48	1778	0.57	1891	0.67	2110	0.88	2319	1.11	2516	1.36	2702	1.63
1500	1000	1439	0.32	1547	0.40	1648	0.49	1751	0.57	1854	0.67	1958	0.77	2161	0.99	2357	1.23	2545	1.48	2724	1.75
1650	1100	1563	0.42	1662	0.50	1755	0.59	1847	0.68	1941	0.78	2035	0.88	2222	1.11	2406	1.35	2584	1.62	2755	1.90
1800	1200	1692	0.53	1778	0.62	1866	0.71	1951	0.81	2036	0.91	2121	1.02	2294	1.25	2465	1.50	2633	1.77	2796	2.06
1950	1300	1824	0.66	1897	0.75	1980	0.85	2059	0.95	2137	1.06	2216	1.17	2375	1.41	2534	1.67	2691	1.95	2846	2.24
2100	1400	1954	0.81	2017	0.90	2096	1.01	2171	1.12	2244	1.23	2316	1.35	2463	1.59	2611	1.86	2758	2.14	2904	2.44
2250	1500	2082	0.97	2141	1.07	2214	1.19	2285	1.31	2354	1.43	2421	1.55	2557	1.80	2695	2.07	2833	2.36	2971	2.67
2400	1600	2211	1.17	2267	1.27	2333	1.39	2401	1.52	2467	1.64	2530	1.77	2657	2.03	2786	2.31	2915	2.61	3044	2.92
2550	1700	2349	1.40	2397	1.49	2453	1.61	2518	1.75	2582	1.88	2642	2.02	2762	2.29	2882	2.58	3003	2.88	3125	3.20
2700	1800	2473	1.63	2528	1.75	2576	1.86	2637	2.00	2698	2.15	2756	2.29	2870	2.58	2982	2.87	3096	3.19	3211	3.51
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1000	2896	2.04	3060	2.34	3218	2.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1650	1100	2921	2.19	3081	2.50	3234	2.82	3382	3.15	3525	3.49	-	-	-	-	-	-	-	-	-	-
1800	1200	2955	2.36	3108	2.68	3257	3.00	3402	3.34	3542	3.69	3678	4.05	3809	4.42	3937	4.80	-	-	-	-
1950	1300	2997	2.55	3144	2.87	3288	3.21	3428	3.56	3564	3.92	3697	4.29	3826	4.67	3952	5.05	-	-	-	-
2100	1400	3048	2.76	3189	3.09	3327	3.43	3462	3.79	3594	4.16	3723	4.53	3849	4.92	3972	5.32	-	-	-	-
2250	1500	3107	2.99	3241	3.33	3373	3.68	3503	4.04	3630	4.42	3755	4.81	3878	5.20	3998	5.61	-	-	-	-
2400	1600	3173	3.25	3301	3.60	3427	3.96	3552	4.33	3674	4.71	3795	5.10	3913	5.50	4030	5.92	-	-	-	-
2550	1700	3247	3.54	3368	3.89	3488	4.26	3607	4.63	3725	5.02	3841	5.42	3955	5.83	4068	6.26	-	-	-	-
2700	1800	3326	3.86	3441	4.22	3556	4.59	3669	4.97	3782	5.37	3894	5.77	4004	6.19	-	-	-	-	-	-
2850	1900	3411	4.20	3520	4.57	3629	4.95	3738	5.34	3846	5.74	3953	6.15	4059	6.58	-	-	-	-	-	-
3000	2000	3501	4.58	3605	4.96	3708	5.34	3812	5.74	3915	6.15	4018	6.57	-	-	-	-	-	-	-	-
3300	2200	3694	5.45	3788	5.83	3881	6.23	3976	6.64	4070	7.06	-	-	-	-	-	-	-	-	-	-
3600	2400	3901	6.46	3986	6.86	4071	7.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BHP DOES NOT INCLUDED DRIVE LOSSES.

PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET DUCT.

CLASS I BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS

C1350

WHEEL DIAMETER—13½"

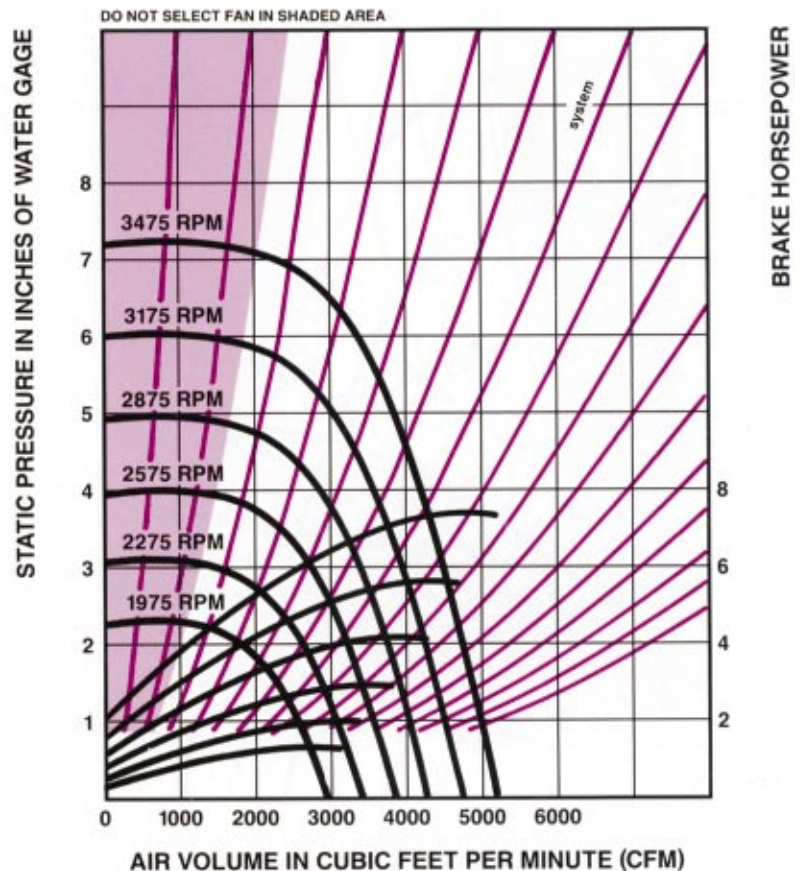
TIP SPEED = 3.534 × RPM

MAX. HP = .1787 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 18¾"
Area = 1.84 Ft²

CLASS 1 = 2871 MAX. RPM

CLASS 2 = 3693 MAX. RPM



VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
736	400	720	0.06	940	0.12	1132	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
920	500	794	0.09	980	0.15	1154	0.23	1314	0.31	1460	0.40	-	-	-	-	-	-	-	-	-	-
1104	600	885	0.12	1041	0.19	1195	0.27	1340	0.36	1478	0.46	1607	0.56	-	-	-	-	-	-	-	-
1288	700	985	0.17	1117	0.24	1251	0.33	1383	0.42	1509	0.52	1631	0.63	1857	0.87	2064	1.13	-	-	-	-
1472	800	1090	0.23	1206	0.31	1323	0.40	1440	0.49	1555	0.60	1667	0.71	1880	0.96	2079	1.23	2265	1.53	-	-
1656	900	1196	0.30	1302	0.39	1405	0.48	1509	0.59	1613	0.70	1716	0.81	1915	1.07	2104	1.35	2283	1.65	2452	1.97
1840	1000	1306	0.39	1403	0.49	1495	0.59	1589	0.70	1683	0.81	1776	0.93	1961	1.20	2139	1.49	2309	1.80	2472	2.13
2024	1100	1418	0.50	1508	0.61	1592	0.72	1676	0.83	1761	0.95	1847	1.07	2017	1.35	2183	1.64	2344	1.96	2500	2.30
2208	1200	1535	0.64	1614	0.75	1693	0.86	1770	0.98	1847	1.10	1925	1.23	2082	1.52	2237	1.82	2389	2.15	2537	2.50
2392	1300	1655	0.80	1721	0.91	1797	1.03	1868	1.16	1939	1.29	2010	1.42	2155	1.71	2299	2.03	2442	2.36	2582	2.72
2576	1400	1773	0.98	1831	1.09	1902	1.23	1970	1.36	2036	1.50	2102	1.64	2235	1.93	2369	2.26	2503	2.60	2635	2.97
2760	1500	1889	1.18	1942	1.30	2009	1.44	2074	1.59	2136	1.73	2197	1.88	2320	2.19	2445	2.52	2571	2.87	2696	3.24
2944	1600	2006	1.42	2057	1.54	2117	1.68	2179	1.84	2238	2.00	2296	2.15	2411	2.47	2528	2.81	2645	3.17	2763	3.55
3128	1700	2131	1.70	2175	1.82	2226	1.96	2285	2.12	2343	2.29	2398	2.45	2506	2.78	2615	3.13	2725	3.50	2835	3.89
3312	1800	2244	1.98	2294	2.13	2337	2.26	2393	2.43	2448	2.61	2501	2.78	2604	3.13	2706	3.49	2809	3.87	2914	4.27
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1840	1000	2628	2.48	2777	2.84	2920	3.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2024	1100	2651	2.66	2795	3.04	2935	3.42	3069	3.82	3199	4.24	3324	4.66	-	-	-	-	-	-	-	-
2208	1200	2681	2.87	2821	3.25	2956	3.65	3087	4.06	3214	4.49	3337	4.92	3457	5.37	3573	5.83	-	-	-	-
2392	1300	2719	3.10	2853	3.49	2984	3.90	3111	4.32	3234	4.76	3355	5.20	3472	5.67	3586	6.14	-	-	-	-
2576	1400	2766	3.35	2894	3.75	3019	4.17	3141	4.60	3261	5.05	3378	5.51	3493	5.98	3604	6.46	-	-	-	-
2760	1500	2819	3.64	2941	4.05	3061	4.47	3179	4.91	3294	5.37	3408	5.84	3519	6.32	3628	6.81	-	-	-	-
2944	1600	2880	3.95	2995	4.37	3110	4.80	3223	5.25	3334	5.72	3443	6.19	3551	6.69	3657	7.19	-	-	-	-
3128	1700	2946	4.30	3056	4.73	3165	5.17	3273	5.63	3380	6.10	3485	6.59	3589	7.08	3692	7.60	-	-	-	-
3312	1800	3018	4.68	3123	5.12	3226	5.57	3330	6.04	3432	6.52	3533	7.01	3633	7.52	-	-	-	-	-	-
3496	1900	3095	5.11	3194	5.55	3293	6.01	3392	6.48	3490	6.97	3587	7.47	3683	7.99	-	-	-	-	-	-
3680	2000	3177	5.57	3271	6.02	3365	6.48	3459	6.97	3553	7.46	3646	7.98	-	-	-	-	-	-	-	-
4048	2200	3352	6.62	3437	7.08	3522	7.57	3607	8.07	3693	8.58	-	-	-	-	-	-	-	-	-	-
4416	2400	3540	7.84	3617	8.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

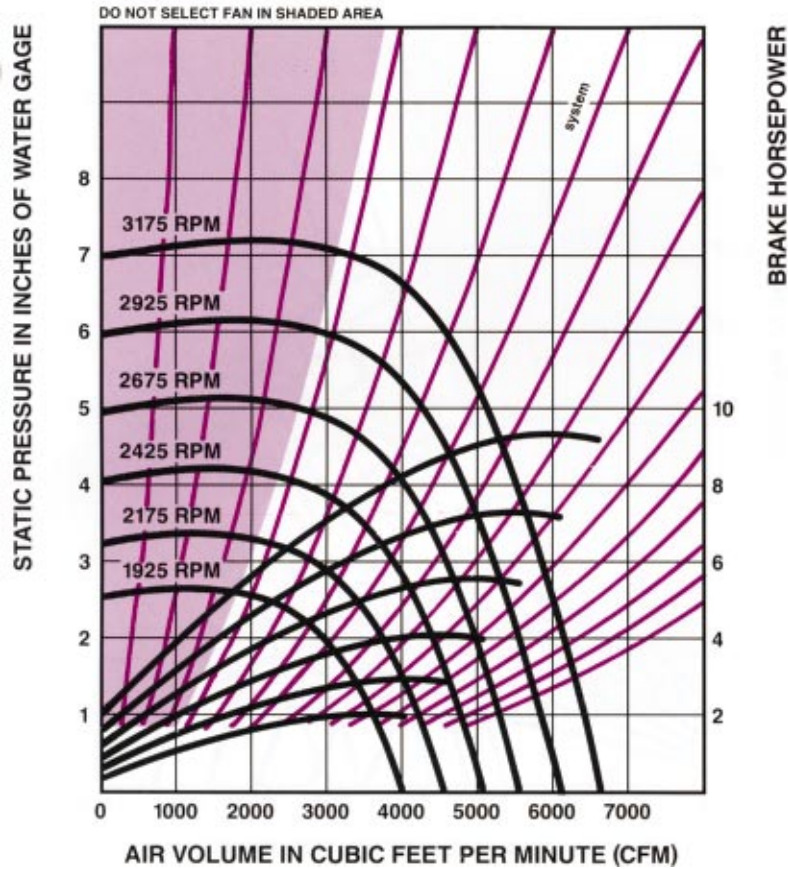
BHP DOES NOT INCLUDED DRIVE LOSSES.

PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET DUCT.

CLASS I BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS



C1500

WHEEL DIAMETER—15"

TIP SPEED = 3.927 × RPM

MAX. HP = .2937 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 20^{3/8}"
Area = 2.26 Ft²

CLASS 1 = 2458 MAX. RPM

CLASS 2 = 3241 MAX. RPM

CLASS 3 = 3699 MAX. RPM

VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1356	600	778	0.14	921	0.22	1067	0.32	1207	0.43	1339	0.55	-	-	-	-	-	-	-	-	-	-
1582	700	865	0.19	985	0.27	1110	0.37	1234	0.49	1355	0.62	1472	0.76	-	-	-	-	-	-	-	-
1808	800	958	0.26	1061	0.35	1168	0.45	1277	0.57	1386	0.70	1493	0.84	1698	1.16	-	-	-	-	-	-
2034	900	1054	0.34	1144	0.44	1238	0.54	1333	0.66	1431	0.80	1528	0.95	1718	1.27	1900	1.63	-	-	-	-
2260	1000	1153	0.45	1233	0.55	1316	0.66	1400	0.78	1487	0.92	1575	1.07	1749	1.40	1919	1.77	2083	2.17	2240	2.59
2486	1100	1255	0.58	1325	0.68	1400	0.80	1476	0.93	1553	1.07	1632	1.22	1791	1.55	1949	1.93	2103	2.33	2253	2.77
2712	1200	1358	0.73	1420	0.84	1488	0.96	1557	1.10	1627	1.24	1698	1.39	1843	1.73	1989	2.11	2133	2.52	2275	2.96
2938	1300	1459	0.90	1517	1.02	1579	1.15	1642	1.29	1706	1.44	1771	1.60	1903	1.94	2037	2.32	2172	2.74	2305	3.19
3164	1400	1560	1.10	1617	1.23	1672	1.37	1731	1.52	1790	1.67	1849	1.83	1970	2.18	2094	2.57	2219	2.99	2344	3.44
3390	1500	1660	1.32	1718	1.48	1768	1.62	1822	1.77	1877	1.93	1932	2.10	2044	2.45	2158	2.84	2274	3.27	2391	3.73
3616	1600	1763	1.58	1821	1.76	1866	1.90	1915	2.06	1966	2.22	2018	2.40	2122	2.76	2228	3.16	2336	3.59	2445	4.05
3842	1700	1869	1.89	1923	2.07	1965	2.22	2011	2.38	2058	2.55	2107	2.73	2204	3.11	2303	3.51	2403	3.95	2505	4.41
4068	1800	1976	2.23	2025	2.41	2067	2.57	2108	2.74	2152	2.92	2197	3.10	2289	3.49	2381	3.91	2475	4.35	2571	4.82
4294	1900	2081	2.60	2126	2.79	2169	2.97	2207	3.14	2247	3.32	2290	3.51	2376	3.92	2463	4.34	2552	4.79	2641	5.27
4520	2000	2184	3.00	2226	3.20	2271	3.41	2307	3.58	2344	3.77	2384	3.96	2466	4.38	2548	4.82	2631	5.28	2716	5.76
4972	2200	2408	4.02	2429	4.14	2475	4.41	2510	4.61	2543	4.80	2577	5.00	2650	5.44	2724	5.91	2799	6.39	2875	6.89
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2712	1200	2413	3.43	2548	3.92	2677	4.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2938	1300	2437	3.66	2565	4.16	2691	4.68	2813	5.22	2931	5.77	-	-	-	-	-	-	-	-	-	-
3164	1400	2468	3.92	2591	4.43	2711	4.96	2829	5.51	2944	6.08	3056	6.67	3166	7.26	-	-	-	-	-	-
3390	1500	2508	4.21	2623	4.73	2738	5.26	2851	5.83	2962	6.41	3071	7.00	3178	7.62	3282	8.25	3385	8.89	-	-
3616	1600	2554	4.54	2664	5.06	2772	5.60	2880	6.17	2987	6.76	3092	7.37	3195	7.99	3297	8.64	3397	9.29	3495	9.96
3842	1700	2608	4.91	2711	5.43	2814	5.98	2916	6.55	3018	7.14	3119	7.76	3218	8.40	3317	9.05	3414	9.72	3509	10.40
4068	1800	2667	5.32	2764	5.84	2861	6.39	2959	6.97	3056	7.57	3152	8.19	3247	8.84	3342	9.50	3436	10.18	3529	10.87
4294	1900	2732	5.77	2823	6.30	2915	6.86	3007	7.44	3099	8.04	3191	8.67	3283	9.31	3374	9.98	3464	10.67	3553	11.37
4520	2000	2801	6.27	2887	6.80	2974	7.36	3061	7.95	3149	8.56	3237	9.19	3324	9.84	3411	10.51	3498	11.20	3584	11.91
4972	2200	2951	7.41	3028	7.96	3106	8.53	3185	9.12	3264	9.74	3343	10.38	3423	11.04	3502	11.72	3582	12.42	3661	13.14
5424	2400	3113	8.76	3183	9.33	3253	9.91	3324	10.51	3395	11.14	3467	11.78	3540	12.45	3613	13.14	3685	13.85	-	-
5876	2600	3284	10.33	3348	10.91	3412	11.51	3476	12.13	3541	12.77	3607	13.42	3673	14.10	-	-	-	-	-	-
6328	2800	3462	12.12	3520	12.73	3579	13.35	3639	13.99	3698	14.64	-	-	-	-	-	-	-	-	-	-

BHP DOES NOT INCLUDE DRIVE LOSSES.

PERFORMANCE SHOWN IS FOR CENTRIFUGALS WITH OUTLET DUCT.

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS

C1650

WHEEL DIAMETER—16½"

TIP SPEED = 4.320 × RPM

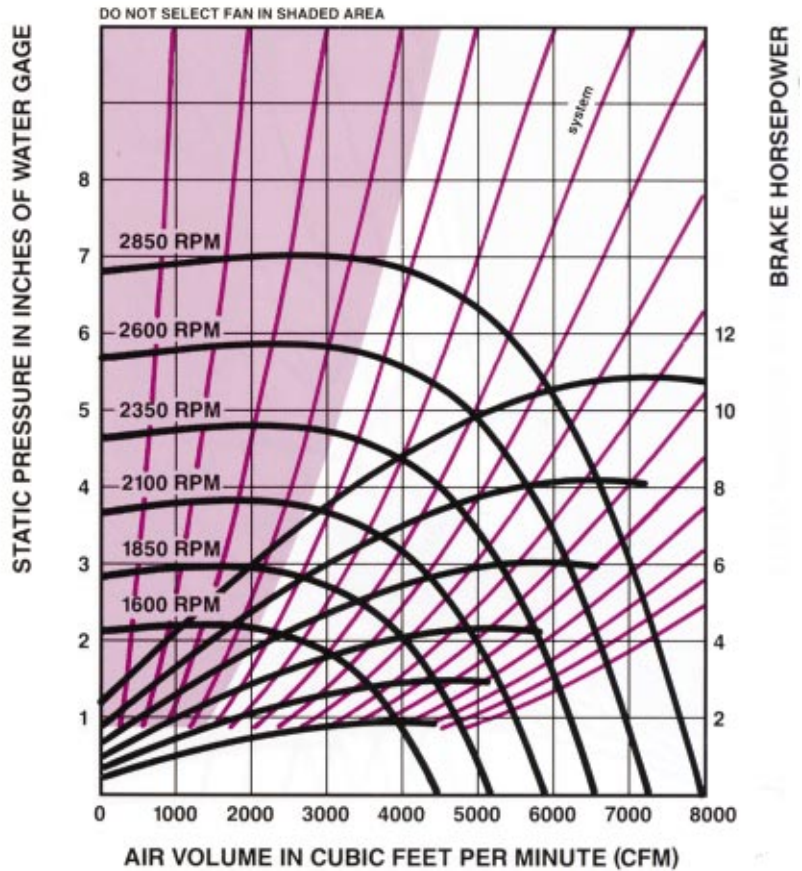
MAX. HP = .4730 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 22⅜"
Area = 2.73 Ft²

CLASS 1 = 2402 MAX. RPM

CLASS 2 = 3165 MAX. RPM

CLASS 3 = 3473 MAX. RPM



VOL	VEL	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1638	600	708	0.17	838	0.26	970	0.38	1097	0.52	1217	0.67	-	-	-	-	-	-	-	-	-	-
1911	700	787	0.23	896	0.33	1009	0.45	1122	0.59	1232	0.75	1338	0.92	-	-	-	-	-	-	-	-
2184	800	871	0.31	964	0.42	1062	0.54	1161	0.69	1260	0.85	1358	1.02	1544	1.41	-	-	-	-	-	-
2457	900	958	0.41	1040	0.53	1125	0.66	1212	0.80	1301	0.97	1389	1.15	1562	1.54	1727	1.97	-	-	-	-
2730	1000	1049	0.54	1121	0.66	1196	0.80	1273	0.95	1352	1.11	1431	1.29	1590	1.69	1745	2.14	1894	2.62	2036	3.13
3003	1100	1141	0.70	1204	0.82	1272	0.97	1341	1.12	1412	1.29	1483	1.47	1628	1.88	1772	2.33	1912	2.82	2048	3.35
3276	1200	1234	0.88	1291	1.01	1352	1.16	1415	1.33	1479	1.50	1543	1.68	1675	2.09	1808	2.55	1939	3.05	2068	3.59
3549	1300	1327	1.09	1379	1.23	1435	1.39	1493	1.56	1551	1.74	1610	1.93	1730	2.35	1852	2.81	1975	3.31	2096	3.86
3822	1400	1418	1.33	1470	1.49	1520	1.66	1573	1.83	1627	2.02	1681	2.21	1791	2.64	1904	3.10	2018	3.61	2131	4.16
4095	1500	1509	1.60	1562	1.79	1607	1.96	1656	2.14	1706	2.34	1756	2.54	1858	2.97	1962	3.44	2067	3.96	2174	4.51
4368	1600	1603	1.92	1655	2.13	1696	2.30	1741	2.49	1788	2.69	1834	2.90	1929	3.34	2025	3.82	2123	4.34	2223	4.90
4641	1700	1699	2.28	1748	2.50	1787	2.68	1828	2.88	1871	3.09	1915	3.31	2003	3.76	2093	4.25	2185	4.78	2277	5.34
4914	1800	1796	2.69	1841	2.92	1879	3.12	1916	3.31	1956	3.53	1998	3.75	2081	4.23	2165	4.73	2250	5.26	2337	5.83
5187	1900	1892	3.14	1932	3.37	1972	3.60	2006	3.80	2043	4.02	2082	4.25	2160	4.74	2239	5.25	2320	5.80	2401	6.37
5460	2000	1985	3.63	2023	3.87	2065	4.13	2097	4.33	2131	4.56	2167	4.80	2242	5.30	2317	5.83	2392	6.39	2469	6.97
6006	2200	2189	4.87	2208	5.01	2250	5.33	2282	5.58	2312	5.81	2343	6.05	2409	6.59	2477	7.15	2545	7.73	2613	8.34
VOL	VEL	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3276	1200	2194	4.15	2316	4.74	2434	5.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3549	1300	2215	4.43	2332	5.04	2446	5.67	2557	6.32	2665	6.99	-	-	-	-	-	-	-	-	-	-
3822	1400	2244	4.75	2355	5.36	2464	6.00	2571	6.67	2676	7.35	2778	8.07	2878	8.79	-	-	-	-	-	-
4095	1500	2280	5.10	2385	5.72	2489	6.37	2592	7.05	2693	7.75	2792	8.48	2889	9.22	2984	9.98	3077	10.75	-	-
4368	1600	2322	5.49	2421	6.12	2520	6.78	2618	7.47	2715	8.18	2811	8.91	2905	9.67	2997	10.45	3088	11.24	3177	12.06
4641	1700	2371	5.94	2464	6.57	2558	7.23	2651	7.93	2743	8.65	2835	9.39	2926	10.16	3015	10.95	3103	11.76	3190	12.59
4914	1800	2425	6.43	2513	7.07	2601	7.74	2690	8.43	2778	9.16	2865	9.91	2952	10.69	3038	11.49	3124	12.31	3208	13.15
5187	1900	2483	6.98	2566	7.62	2650	8.29	2734	9.00	2818	9.73	2901	10.49	2984	11.27	3067	12.08	3149	12.91	3230	13.76
5460	2000	2546	7.59	2625	8.23	2704	8.91	2783	9.62	2863	10.35	2942	11.12	3022	11.90	3101	12.72	3180	13.56	3258	14.42
6006	2200	2683	8.97	2753	9.63	2824	10.32	2895	11.04	2967	11.78	3039	12.55	3111	13.35	3184	14.18	3256	15.03	3328	15.90
6552	2400	2830	10.60	2893	11.28	2957	11.99	3022	12.72	3087	13.47	3152	14.26	3218	15.07	3284	15.90	3350	16.76	3417	17.64
7098	2600	2986	12.50	3043	13.20	3102	13.93	3160	14.68	3219	15.45	3279	16.24	3339	17.06	3399	17.91	3460	18.77	-	-
7644	2800	3147	14.67	3200	15.40	3254	16.15	3308	16.93	3362	17.72	3417	18.53	3472	19.36	-	-	-	-	-	-

BHP DOES NOT INCLUDED DRIVE LOSSES.

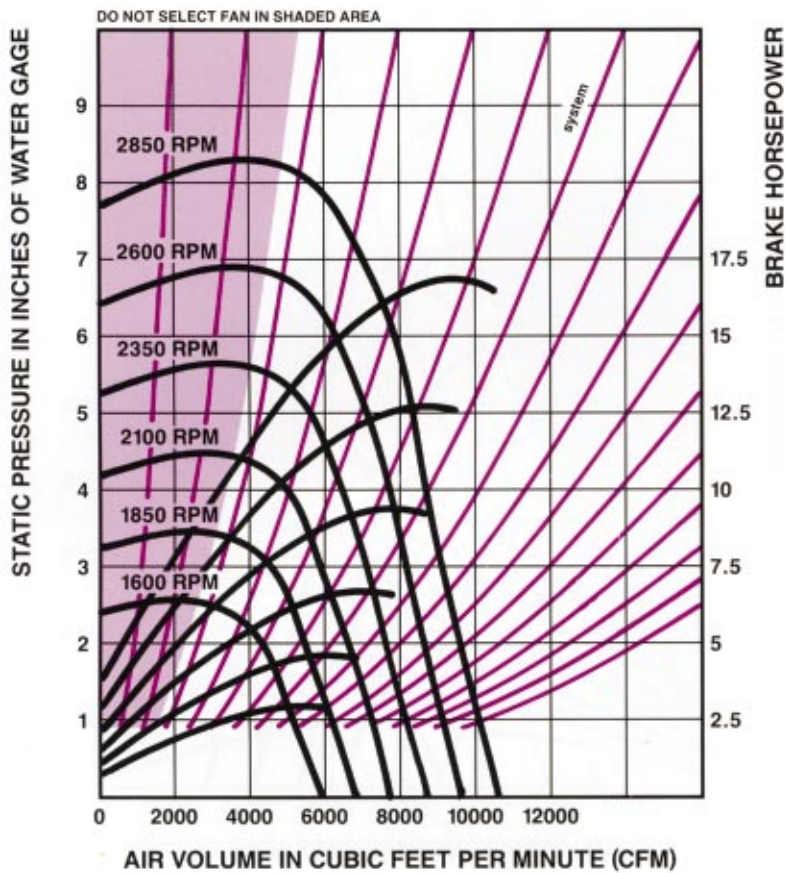
PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET DUCT.

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS



C1820

WHEEL DIAMETER—18¼"

TIP SPEED = 4.778 × RPM

MAX. HP = .7279 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 24¹¹/₁₆"
Area = 3.32 Ft²

CLASS 1 = 2069 MAX. RPM

CLASS 2 = 2741 MAX. RPM

CLASS 3 = 3221 MAX. RPM

VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1992	600	670	0.22	778	0.32	894	0.46	1009	0.62	1121	.080	-	-	-	-	-	-	-	-	-	-
2324	700	748	0.30	839	0.42	935	0.55	1034	0.71	1134	0.90	1231	1.10	-	-	-	-	-	-	-	-
2656	800	828	0.41	910	0.54	991	0.68	1075	0.84	1162	1.02	1250	1.22	1421	1.67	-	-	-	-	-	-
2988	900	909	0.54	987	0.69	1057	0.84	1130	1.00	1205	1.18	1282	1.38	1437	1.84	1589	2.35	1734	2.91	-	-
3320	100	992	0.70	1066	0.87	1130	1.03	1194	1.20	1259	1.38	1327	1.58	1466	2.04	1605	2.56	1742	3.12	1875	3.73
3652	1100	1076	0.90	1145	1.09	1207	1.26	1264	1.44	1322	1.63	1382	1.83	1506	2.29	1633	2.80	1760	3.37	1885	3.99
3984	1200	1162	1.13	1226	1.33	1285	1.53	1339	1.72	1392	1.91	1445	2.12	1556	2.58	1671	3.10	1787	3.67	1903	4.29
4316	1300	1248	1.40	1307	1.62	1365	1.84	1417	2.05	1466	2.25	1514	2.46	1614	2.92	1718	3.44	1824	4.01	1932	4.64
4648	1400	1336	1.72	1390	1.94	1445	2.18	1496	2.41	1542	2.63	1587	2.86	1678	3.33	1773	3.85	1870	4.42	1969	5.04
4980	1500	1425	2.08	1474	2.32	1526	2.57	1575	2.82	1621	3.07	1664	3.30	1748	3.79	1834	4.31	1923	4.88	2014	5.51
5312	1600	1515	2.50	1560	2.74	1608	3.01	1655	3.82	1700	3.54	1741	3.80	1821	4.31	1900	4.84	1982	5.42	2065	6.04
5644	1700	1603	2.96	1645	3.21	1691	3.49	1736	3.79	1780	4.07	1820	4.35	1896	4.88	1970	5.43	2046	6.02	2123	6.64
5976	1800	1687	3.45	1732	3.74	1774	4.04	1817	4.34	1860	4.65	1900	4.95	1974	5.52	2044	6.09	2114	6.69	2186	7.32
6308	1900	1772	3.99	1819	4.34	1859	4.64	1900	4.96	1940	5.29	1980	5.61	2052	6.22	2120	6.82	2186	7.43	2253	8.07
6640	2000	1876	4.75	1907	4.99	1945	5.31	1983	5.64	2022	5.98	2060	6.32	2131	6.98	2197	7.62	2260	8.25	2323	8.90
7304	2200	2045	6.17	2087	6.54	2117	6.84	2152	7.20	2187	7.57	2222	7.94	2291	8.69	2354	9.41	2414	10.10	2471	10.80
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3984	1200	2018	4.95	2131	5.65	2241	6.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4316	1300	2039	5.30	2146	6.01	2250	6.75	2353	7.53	2454	8.33	-	-	-	-	-	-	-	-	-	-
4648	1400	2068	5.71	2168	6.42	2267	7.17	2366	7.95	2462	8.77	2557	9.61	2651	10.48	-	-	-	-	-	-
4980	1500	2106	6.18	2199	6.89	2292	7.64	2385	8.43	2477	9.25	2568	10.10	2658	10.98	2747	11.89	2834	12.82	-	-
5312	1600	2151	6.71	2237	7.42	2325	8.17	2412	8.96	2499	9.79	2586	10.65	2672	11.54	2757	12.46	2841	13.40	2924	14.37
5644	1700	2202	7.31	2283	8.02	2364	8.78	2446	9.57	2528	10.40	2611	11.26	2693	12.15	2774	13.08	2855	14.03	2935	15.01
5976	1800	2259	7.99	2334	8.70	2410	9.45	2487	10.25	2564	11.07	2642	11.94	2720	12.83	2797	13.76	2874	14.72	2951	15.70
6308	1900	2321	8.75	2391	9.46	2462	10.21	2534	11.00	2606	11.83	2680	12.70	2753	13.59	2827	14.52	2900	15.48	2974	16.47
6640	2000	2387	9.58	2452	10.30	2519	11.05	2586	11.85	2654	12.67	2723	13.54	2793	14.43	2862	15.36	2932	16.33	3002	17.32
7304	2200	2528	11.50	2586	12.24	2645	13.00	2704	13.80	2764	14.63	2825	15.49	2887	16.39	2950	17.32	3012	18.28	3076	19.27
7968	2400	2678	13.76	2731	14.53	2784	15.31	2837	16.13	2890	16.96	2945	17.83	3000	18.73	3056	19.67	3112	20.63	3169	21.62
8632	2600	2834	16.36	2883	17.18	2931	18.00	2980	18.84	3028	19.70	3078	20.58	3127	21.49	3177	22.43	-	-	-	-
9296	2800	2991	19.31	3039	20.19	3085	21.07	3130	21.96	3175	22.85	3220	23.75	-	-	-	-	-	-	-	-

BHP DOES NOT INCLUDE DRIVE LOSSES.

PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET DUCT.

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS

C2000

WHEEL DIAMETER—20"

TIP SPEED = 5.236 × RPM

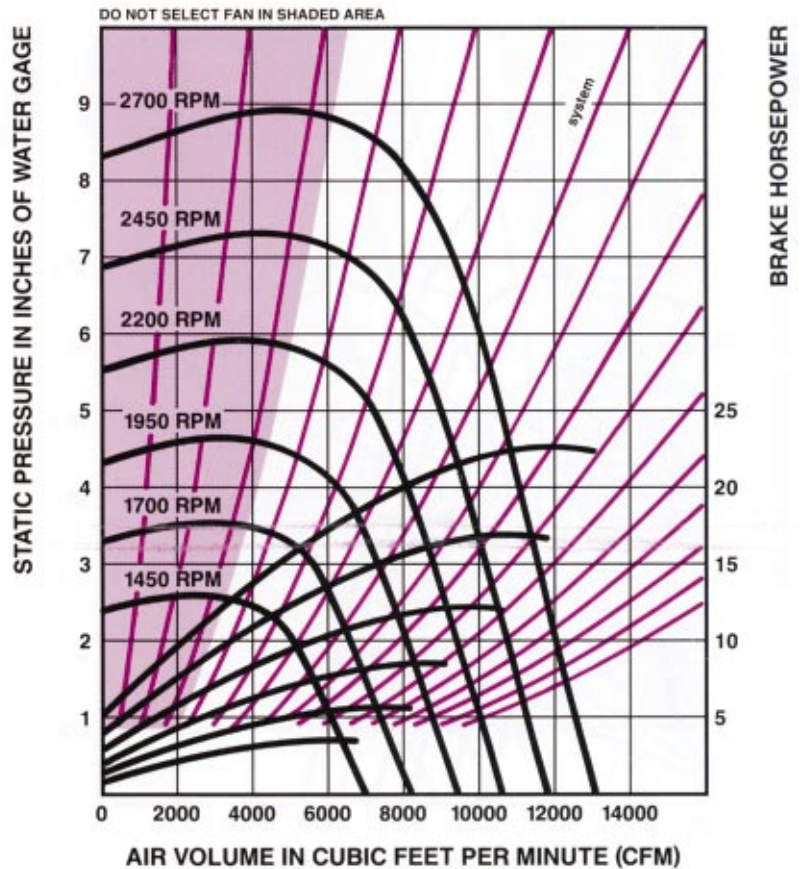
MAX. HP = $1.1533 \times \left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 27 $\frac{5}{16}$ "
Area = 4.07 Ft²

CLASS 1 = 2054 MAX. RPM

CLASS 2 = 2507 MAX. RPM

CLASS 3 = 2774 MAX. RPM



VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2442	600	611	0.26	710	0.39	815	0.55	921	0.74	1022	0.96	-	-	-	-	-	-	-	-	-	-
2849	700	682	0.36	766	0.50	853	0.66	944	0.86	1035	1.08	1123	1.32	-	-	-	-	-	-	-	-
3256	800	755	0.49	831	0.65	904	0.81	981	1.01	1061	1.23	1140	1.47	1296	2.01	-	-	-	-	-	-
3663	900	829	0.65	900	0.83	965	1.00	1031	1.20	1100	1.42	1170	1.66	1311	2.21	1450	2.82	1583	3.49	-	-
4070	1000	905	0.85	972	1.05	1031	1.24	1089	1.44	1149	1.66	1211	1.90	1338	2.45	1465	3.07	1590	3.75	1711	4.48
4477	1100	982	1.08	1045	1.30	1101	1.52	1154	1.73	1207	1.95	1261	2.20	1374	2.74	1490	3.37	1606	4.05	1720	4.79
4884	1200	1060	1.36	1119	1.60	1173	1.84	1222	2.07	1270	2.30	1319	2.55	1420	3.10	1525	3.72	1631	4.41	1737	5.15
5291	1300	1139	1.68	1193	1.94	1246	2.21	1293	2.46	1337	2.70	1382	2.96	1473	3.51	1568	4.13	1665	4.82	1763	5.57
5698	1400	1219	2.06	1269	2.33	1319	2.62	1365	2.90	1407	3.16	1449	3.43	1532	3.99	1617	4.62	1706	5.31	1796	6.05
6105	1500	1301	2.50	1345	2.78	1392	3.09	1437	3.39	1479	3.68	1518	3.96	1595	4.55	1673	5.18	1754	5.87	1837	6.61
6512	1600	1383	3.01	1423	3.29	1467	3.61	1511	3.94	1551	4.26	1589	4.56	1661	5.17	1734	5.81	1808	6.50	1885	7.25
6919	1700	1463	3.56	1501	3.86	1543	4.20	1584	4.55	1624	4.89	1661	5.22	1730	5.87	1798	6.52	1867	7.23	1937	7.98
7326	1800	1539	4.14	1580	4.50	1619	4.85	1658	5.22	1697	5.59	1733	5.95	1801	6.63	1865	7.32	1929	8.03	1995	8.79
7733	1900	1617	4.80	1660	5.21	1697	5.58	1734	5.96	1771	6.35	1806	6.74	1872	7.47	1934	8.19	1995	8.92	2056	9.69
8140	2000	1712	5.70	1740	6.00	1775	6.38	1809	6.77	1845	7.18	1880	7.60	1945	8.39	2005	9.15	2062	9.91	2120	10.69
8954	2200	1892	7.65	1904	7.85	1932	8.22	1964	8.65	1996	9.09	2028	9.54	2090	10.44	2148	11.30	2202	12.13	2255	12.97
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4884	1200	1842	5.95	1945	6.79	2045	7.67	2142	8.58	-	-	-	-	-	-	-	-	-	-	-	-
5291	1300	1861	6.37	1958	7.22	2054	8.11	2147	9.04	2239	10.01	2329	11.00	-	-	-	-	-	-	-	-
5698	1400	1887	6.86	1979	7.71	2069	8.61	2159	9.55	2247	10.53	2334	11.54	2419	12.59	2502	13.65	-	-	-	-
6105	1500	1922	7.42	2007	8.27	2092	9.17	2176	10.12	2260	11.11	2344	12.13	2426	13.19	2506	14.28	2586	15.40	2664	16.54
6512	1600	1963	8.06	2042	8.91	2121	9.82	2201	10.76	2281	11.76	2360	12.79	2438	13.86	2516	14.96	2593	16.09	2668	17.25
6919	1700	2010	8.78	2083	9.64	2157	10.54	2232	11.49	2307	12.48	2382	13.52	2457	14.59	2531	15.70	2605	16.85	2678	18.02
7326	1800	2062	9.60	2130	10.45	2199	11.35	2269	12.30	2340	13.30	2411	14.34	2482	15.41	2552	16.53	2623	17.68	2693	18.86
7733	1900	2118	10.50	2182	11.36	2246	12.27	2312	13.22	2378	14.21	2445	15.25	2512	16.32	2579	17.44	2646	18.59	2713	19.78
8140	2000	2178	11.51	2238	12.37	2298	13.28	2360	14.23	2422	15.22	2485	16.26	2548	17.34	2612	18.45	2676	19.61	2739	20.80
8954	2200	2307	13.82	2360	14.70	2413	15.62	2467	16.57	2522	17.57	2578	18.61	2635	19.68	2692	20.80	2749	21.96	-	-
9768	2400	2444	16.53	2492	17.45	2540	18.39	2588	19.37	2638	20.37	2687	21.42	2738	22.50	-	-	-	-	-	-
10582	2600	2586	19.65	2631	20.63	2675	21.62	2719	22.63	2763	23.66	-	-	-	-	-	-	-	-	-	-
11396	2800	2730	23.19	2773	24.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BHP DOES NOT INCLUDED DRIVE LOSSES.

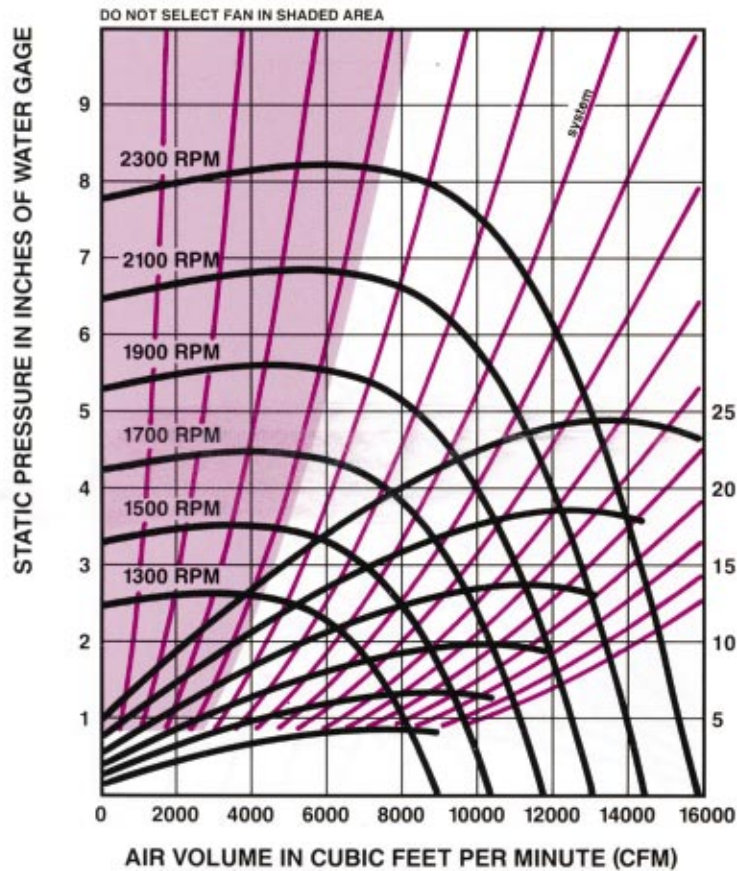
PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET DUC

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS



C2220

WHEEL DIAMETER—22¼"

TIP SPEED = 5.825 × RPM

MAX. HP = 2.0136 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 30⅝"
Area = 5.01 Ft²

CLASS 1 = 1706 MAX. RPM

CLASS 2 = 2315 MAX. RPM

CLASS 3 = 2459 MAX. RPM

VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3006	600	526	0.29	622	0.46	720	0.68	813	0.91	902	1.17	-	-	-	-	-	-	-	-	-	-
3507	700	585	0.40	665	0.58	749	0.80	833	1.05	914	1.32	992	1.62	-	-	-	-	-	-	-	-
4008	800	649	0.54	716	0.73	789	0.96	862	1.22	935	1.50	1007	1.81	1144	2.47	-	-	-	-	-	-
4509	900	714	0.72	773	0.92	836	1.16	900	1.42	966	1.72	1031	2.03	1158	2.72	1280	3.47	-	-	-	-
5010	1000	782	0.94	834	1.16	888	1.40	946	1.67	1004	1.97	1063	2.30	1180	3.01	1294	3.78	1404	4.61	-	-
5511	1100	850	1.21	897	1.44	946	1.69	996	1.97	1049	2.28	1102	2.61	1209	3.34	1315	4.13	1418	4.99	1518	5.89
6012	1200	919	1.52	962	1.77	1006	2.03	1051	2.32	1098	2.64	1146	2.97	1244	3.72	1342	4.53	1439	5.41	1534	6.34
6513	1300	989	1.89	1029	2.15	1069	2.43	1110	2.73	1152	3.05	1196	3.40	1285	4.15	1376	4.99	1466	5.88	1555	6.84
7014	1400	1058	2.32	1096	2.60	1133	2.89	1171	3.20	1209	3.53	1249	3.88	1330	4.66	1414	5.50	1498	6.42	1582	7.39
7515	1500	1128	2.80	1164	3.10	1199	3.42	1234	3.74	1269	4.08	1305	4.44	1380	5.22	1457	6.09	1535	7.02	1614	8.01
8016	1600	1197	3.34	1232	3.68	1265	4.01	1298	4.35	1331	4.70	1364	5.07	1433	5.87	1504	6.74	1577	7.69	1651	8.70
8517	1700	1267	3.95	1302	4.33	1332	4.67	1363	5.03	1394	5.39	1425	5.78	1489	6.59	1555	7.48	1622	8.44	1691	9.49
9018	1800	1336	4.63	1371	5.05	1400	5.41	1429	5.78	1458	6.17	1487	6.56	1547	7.39	1608	8.30	1671	9.27	1736	10.30
9519	1900	1407	5.39	1441	5.86	1468	6.23	1496	6.62	1523	7.02	1551	7.43	1607	8.28	1664	9.20	1723	10.19	1783	11.24
10020	2000	1478	6.25	1511	6.74	1537	7.14	1563	7.54	1589	7.96	1616	8.38	1668	9.27	1722	10.20	1777	11.20	1833	12.26
11022	2200	1621	8.23	1650	8.75	1676	9.23	1700	9.66	1723	10.11	1747	10.57	1795	11.51	1843	12.49	1892	13.52	1942	14.61
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6012	1200	1626	7.32	1716	8.34	1804	9.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6513	1300	1643	7.84	1729	8.88	1813	9.97	1895	11.10	-	-	-	-	-	-	-	-	-	-	-	-
7014	1400	1665	8.41	1747	9.48	1827	10.59	1906	11.75	1983	12.93	2059	14.16	-	-	-	-	-	-	-	-
7515	1500	1692	9.05	1770	10.14	1847	11.28	1922	12.45	1996	13.67	2069	14.92	2141	16.20	2212	17.51	-	-	-	-
8016	1600	1724	9.76	1798	10.87	1871	12.03	1943	13.22	2014	14.46	2084	15.74	2153	17.04	2221	18.39	2289	19.76	2355	21.16
8517	1700	1761	10.54	1830	11.67	1899	12.84	1968	14.06	2036	15.32	2103	16.62	2170	17.95	2236	19.32	2300	20.72	2365	22.15
9018	1800	1801	11.40	1866	12.55	1932	13.74	1997	14.98	2062	16.26	2126	17.58	2190	18.94	2254	20.33	2316	21.75	2378	23.20
9519	1900	1844	12.34	1906	13.51	1968	14.72	2030	15.98	2092	17.28	2154	18.62	2215	20.00	2276	21.41	2336	22.85	2396	24.33
10020	2000	1891	13.38	1949	14.56	2008	15.79	2067	17.06	2126	18.38	2185	19.74	2244	21.14	2302	22.57	2360	24.04	2418	25.54
11022	2200	1993	15.76	2044	19.96	2097	18.22	2150	19.53	2203	20.88	2257	22.27	2311	23.71	2364	25.18	2418	26.69	-	-
12024	2400	2103	18.57	2149	19.80	2196	21.08	2244	22.42	2292	23.79	2341	25.22	2390	26.69	2439	28.19	-	-	-	-
13026	2600	2220	21.85	2262	23.11	2304	24.42	2347	25.78	2391	27.18	2435	28.63	-	-	-	-	-	-	-	-
14028	2800	2342	25.63	2380	26.92	2418	28.26	2458	29.65	-	-	-	-	-	-	-	-	-	-	-	-

BHP DOES NOT INCLUDED DRIVE LOSSES.

PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET DUCT.

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS

C2450

WHEEL DIAMETER—24½"

TIP SPEED = 6.414 × RPM

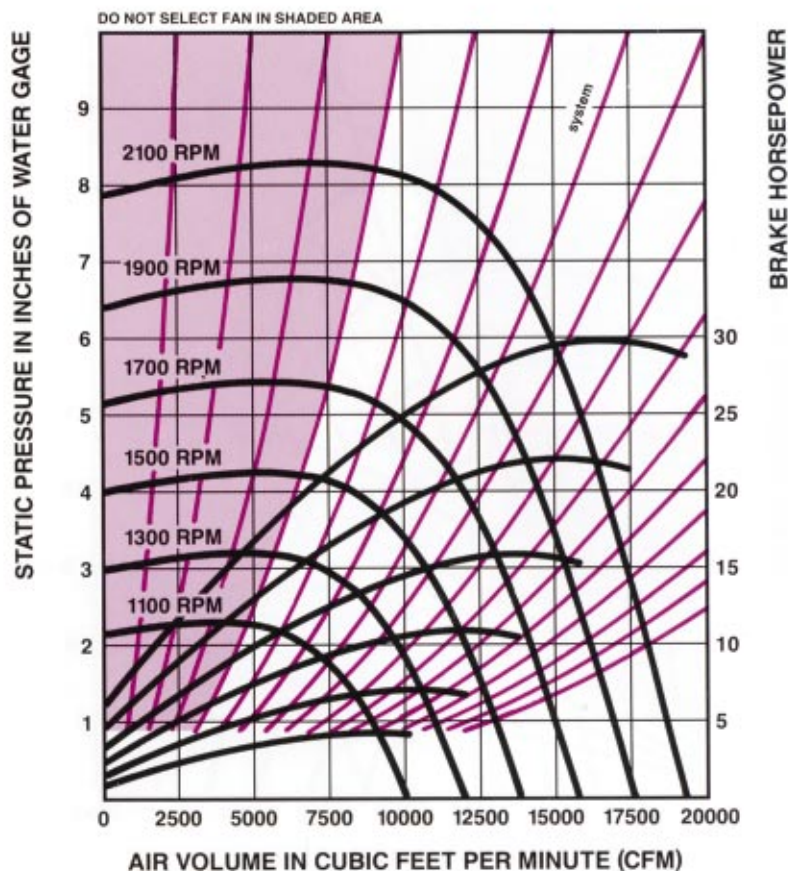
MAX. HP = 3.2502 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 33¼"
Area = 6.03 Ft²

CLASS 1 = 1563 MAX. RPM

CLASS 2 = 2097 MAX. RPM

CLASS 3 = 2269 MAX. RPM



VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3618	600	477	0.35	565	0.56	653	0.82	739	1.11	819	1.42	-	-	-	-	-	-	-	-	-	-
4221	700	532	0.49	604	0.71	680	0.97	756	1.28	830	1.61	901	1.96	-	-	-	-	-	-	-	-
4824	800	589	0.66	651	0.89	716	1.17	783	1.48	849	1.82	914	2.19	1039	2.99	-	-	-	-	-	-
5427	900	649	0.88	702	1.12	759	1.40	818	1.73	877	2.08	936	2.46	1052	3.30	1162	4.20	-	-	-	-
6030	1000	710	1.14	758	1.40	807	1.70	859	2.03	912	2.39	965	2.79	1072	3.64	1175	4.58	1275	5.59	1371	6.65
6633	1100	772	1.46	815	1.74	859	2.05	905	2.39	952	2.76	1001	3.16	1098	4.04	1194	5.01	1288	6.04	1379	7.14
7236	1200	835	1.85	874	2.15	914	2.47	955	2.81	997	3.20	1041	3.61	1130	4.51	1219	5.50	1307	6.56	1393	7.68
7839	1300	898	2.29	934	2.61	971	2.95	1008	3.31	1046	3.70	1086	4.12	1167	5.04	1249	6.05	1331	7.13	1412	8.29
8442	1400	961	2.81	995	3.15	1029	3.51	1063	3.88	1098	4.28	1134	4.71	1208	5.64	1284	6.67	1361	7.78	1437	8.96
9045	1500	1024	3.39	1057	3.76	1089	4.14	1120	4.54	1152	4.95	1185	5.38	1253	6.33	1323	7.38	1394	8.51	1466	9.71
9648	1600	1087	4.05	1119	4.46	1149	4.86	1179	5.27	1208	5.70	1239	6.15	1301	7.11	1366	8.17	1432	9.32	1499	10.54
10251	1700	1150	4.79	1182	5.25	1210	5.66	1238	6.09	1266	6.56	1294	7.00	1352	7.99	1412	9.07	1473	10.23	1536	11.47
10854	1800	1214	5.62	1245	6.13	1271	6.56	1298	7.01	1324	7.48	1351	7.95	1405	8.96	1460	10.06	1518	11.24	1576	12.49
11457	1900	1277	6.54	1309	7.10	1333	7.55	1358	8.02	1383	8.51	1409	9.01	1459	10.04	1511	11.16	1565	12.35	1619	13.62
12060	2000	1342	7.58	1372	8.17	1396	8.66	1420	9.14	1443	9.65	1467	10.16	1515	11.23	1564	12.37	1614	13.58	1665	14.87
13266	2200	1472	9.98	1498	10.61	1522	11.19	1543	11.72	1565	12.25	1587	12.81	1630	13.96	1674	15.15	1718	16.40	1763	17.72
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7236	1200	1477	8.87	1559	10.11	1638	11.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7839	1300	1492	9.50	1570	10.77	1647	12.09	1721	13.45	1794	14.86	-	-	-	-	-	-	-	-	-	-
8442	1400	1512	10.20	1586	11.50	1659	12.85	1731	14.25	1801	15.68	1870	17.17	1937	18.69	-	-	-	-	-	-
9045	1500	1537	10.98	1607	12.30	1677	13.67	1745	15.10	1813	16.57	1879	18.09	1944	19.64	2009	21.24	2071	22.87	-	-
9648	1600	1566	11.83	1633	13.18	1699	14.58	1764	16.03	1829	17.53	1893	19.08	1956	20.67	2017	22.29	2078	23.96	2138	25.66
10251	1700	1599	12.78	1662	14.15	1725	15.57	1787	17.05	1849	18.58	1910	20.15	1970	21.77	2030	23.43	2089	25.12	2147	26.86
10854	1800	1635	13.82	1695	15.21	1754	16.66	1814	18.16	1873	19.72	1931	21.32	1989	22.96	2047	24.64	2104	26.37	2160	28.13
11457	1900	1675	14.97	1731	16.38	1787	17.85	1844	19.37	1900	20.95	1956	22.57	2012	24.24	2067	25.96	2122	27.71	2176	29.50
12060	2000	1717	16.23	1770	17.65	1824	19.14	1877	20.69	1931	22.29	1984	23.94	2037	25.63	2090	27.37	2143	29.15	2195	30.97
13266	2200	1810	19.11	1857	20.57	1904	22.09	1953	23.67	2001	25.31	2050	27.00	2098	28.74	2147	30.53	2196	32.36	2244	34.23
14472	2400	1910	22.52	1952	24.01	1995	25.56	2038	27.18	2082	28.85	2126	30.58	2171	32.36	2215	34.18	2260	36.06	-	-
15678	2600	2016	26.49	2054	28.02	2092	29.61	2132	31.25	2171	32.96	2212	34.71	2252	36.53	-	-	-	-	-	-
16884	2800	2127	31.07	2161	32.64	2196	34.27	2232	35.95	2268	37.68	-	-	-	-	-	-	-	-	-	-

BHP DOES NOT INCLUDED DRIVE LOSSES.

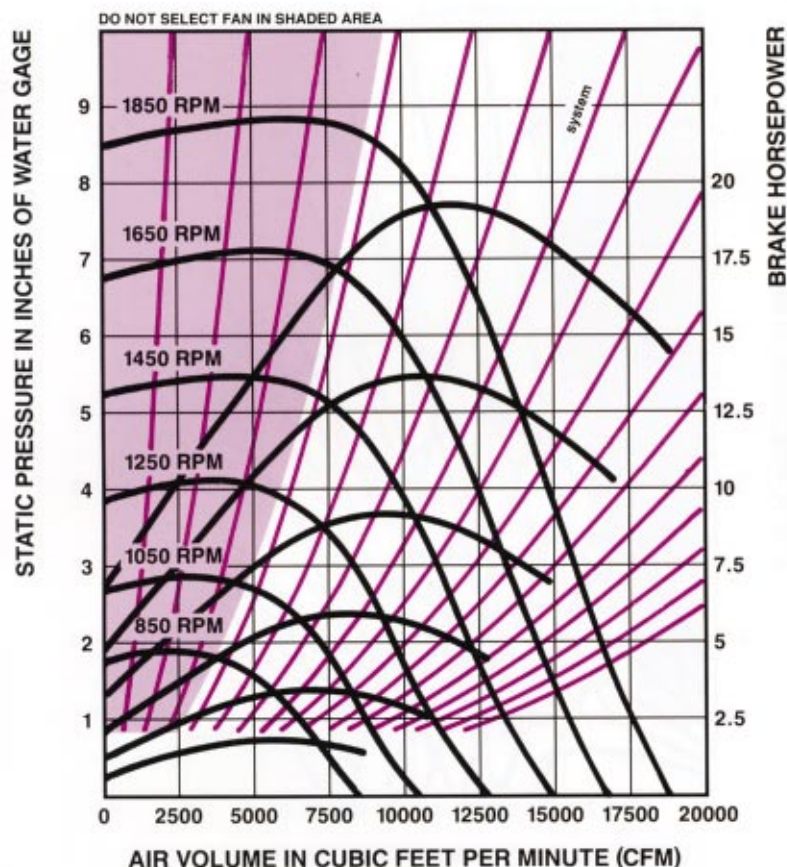
PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET DUCT.

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS



C2700

WHEEL DIAMETER—27"

TIP SPEED = 7.069 × RPM

MAX. HP = 3.057 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 36 $\frac{5}{8}$ "
Area = 7.316 Ft²

CLASS 1 = 1579 MAX. RPM

CLASS 2 = 2077 MAX. RPM

CLASS 3 = 2509 MAX. RPM

VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3658	500	456	0.27	526	0.44	591	0.63	652	0.84	712	1.07	-	-	-	-	-	-	-	-	-	-
4390	600	519	0.39	581	0.57	638	0.78	692	1.01	744	1.26	795	1.52	893	2.09	-	-	-	-	-	-
5121	700	585	0.54	640	0.75	691	0.97	740	1.22	787	1.48	833	1.76	920	2.36	1005	3.01	-	-	-	-
5853	800	652	0.73	703	0.97	749	1.21	794	1.48	836	1.76	878	2.05	958	2.69	1035	3.37	1109	4.09	1182	4.86
6584	900	719	0.97	768	1.24	810	1.51	851	1.79	890	2.08	929	2.40	1002	3.06	1073	3.78	1142	4.54	1209	5.33
7316	1000	786	1.25	834	1.57	874	1.85	911	2.16	948	2.47	983	2.80	1052	3.50	1118	4.25	1182	5.04	1244	5.87
8048	1100	853	1.57	901	1.95	939	2.27	974	2.59	1008	2.92	1041	3.27	1105	4.00	1167	4.79	1227	5.61	1285	6.48
8779	1200	920	1.94	969	2.39	1005	2.75	1038	3.09	1070	3.45	1101	3.81	1161	4.58	1219	5.40	1276	6.26	1331	7.16
9511	1300	988	2.38	1036	2.88	1072	3.29	1104	3.67	1134	4.05	1163	4.43	1220	5.24	1274	6.09	1328	6.99	1380	7.92
10242	1400	1057	2.89	1103	3.44	1139	3.91	1170	4.33	1199	4.73	1227	5.14	1280	5.98	1332	6.87	1383	7.80	1432	8.77
10974	1500	1127	3.49	1169	4.06	1207	4.60	1237	5.06	1265	5.50	1291	5.93	1342	6.82	1391	7.74	1440	8.70	1487	9.70
11706	1600	1198	4.17	1236	4.76	1274	5.36	1305	5.88	1332	6.35	1357	6.82	1406	7.75	1453	8.71	1498	9.71	1543	10.74
12437	1700	1268	4.93	1303	5.52	1341	6.20	1372	6.78	1399	7.30	1424	7.80	1470	8.78	1515	9.78	1559	10.82	1602	11.89
13169	1800	1338	5.76	1371	6.38	1407	7.11	1439	7.76	1466	8.34	1491	8.88	1536	9.92	1579	10.97	1621	12.04	1662	13.15
13900	1900	1407	6.66	1439	7.34	1474	8.10	1506	8.82	1533	9.46	1558	10.05	1602	11.16	1643	12.26	1684	13.38	1723	14.53
14632	2000	1476	7.65	1509	8.41	1541	9.19	1573	9.98	1600	10.68	1625	11.33	1669	12.52	1709	13.68	1748	14.84	1785	16.03
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7316	1000	1305	6.74	1365	7.65	1424	8.59	1482	9.56	-	-	-	-	-	-	-	-	-	-	-	-
8048	1100	1342	7.38	1398	8.32	1453	9.29	1507	10.29	1561	11.32	1614	12.39	1666	13.49	-	-	-	-	-	-
8779	1200	1384	8.09	1437	9.06	1489	10.06	1540	11.10	1590	12.16	1640	13.26	1689	14.38	1737	15.53	1786	16.71	1834	17.92
9511	1300	1431	8.89	1481	9.89	1530	10.93	1578	11.99	1625	13.09	1672	14.21	1719	15.37	1764	16.55	1810	17.75	1855	18.99
10242	1400	1480	9.77	1528	10.81	1574	11.88	1620	12.98	1665	14.11	1710	15.26	1754	16.45	1797	17.66	1841	18.89	1883	20.16
10974	1500	1533	10.74	1578	11.82	1622	12.92	1666	14.05	1709	15.22	1752	16.41	1794	17.62	1835	18.87	1876	20.14	1917	21.43
11706	1600	1587	11.82	1630	12.92	1673	14.06	1715	15.23	1756	16.43	1797	17.65	1837	18.90	1877	20.18	1916	21.48	1955	22.81
12437	1700	1644	13.00	1685	14.14	1726	15.31	1766	16.51	1806	17.74	1845	19.00	1883	20.29	1921	21.60	1959	22.94	1996	24.30
13169	1800	1702	14.29	1742	15.46	1781	16.67	1819	17.91	1857	19.17	1895	20.47	1932	21.79	1969	23.13	2005	25.51	2041	25.90
13900	1900	1762	15.70	1800	16.91	1837	18.15	1874	19.42	1911	20.72	1947	22.05	1983	23.41	2018	24.79	2053	26.19	2088	27.62
14632	2000	1823	17.24	1859	18.49	1896	19.76	1931	21.07	1967	22.40	2001	23.76	2036	25.15	2070	26.57	2104	28.01	2137	29.47
16095	2200	1948	20.71	1982	22.03	2016	23.38	2049	24.76	2082	26.16	2114	27.59	2147	29.05	2178	30.53	2210	32.04	2241	33.57
17558	2400	2077	24.75	2109	26.15	2140	27.58	2171	29.03	2202	30.50	2232	32.00	2263	33.53	2293	35.08	2322	36.66	2352	38.26
19022	2600	2208	29.37	2238	30.87	2268	32.39	2297	33.92	2326	35.47	2355	37.05	2383	38.65	2411	40.27	2439	41.91	2467	43.58
20485	2800	2341	34.62	2370	36.24	2398	37.85	2426	39.48	2453	41.11	2480	42.77	2507	44.45	-	-	-	-	-	-

BHP DOES NOT INCLUDED DRIVE LOSSES.

PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET DUCT.

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS

C3000

WHEEL DIAMETER—30"

TIP SPEED = 7.854 × RPM

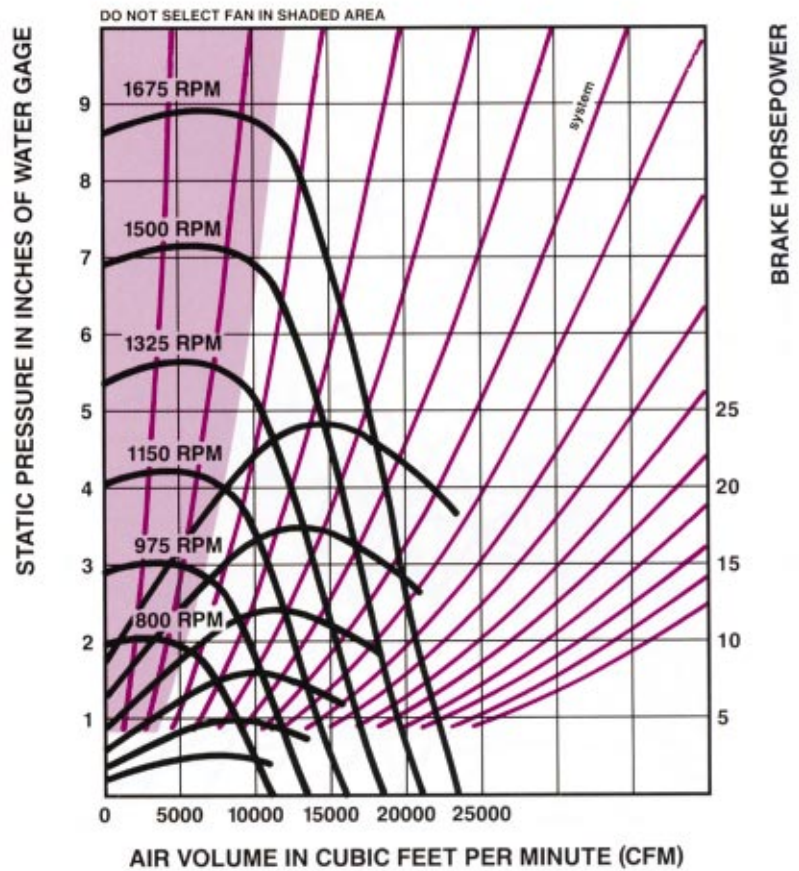
MAX. HP = 5.177 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 40^{11/16}"
Area = 9.029 Ft²

CLASS 1 = 1421 MAX. RPM

CLASS 2 = 1869 MAX. RPM

CLASS 3 = 2258 MAX. RPM



VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4515	500	410	0.33	473	0.54	532	0.78	587	1.04	641	1.32	-	-	-	-	-	-	-	-	-	-
5417	600	467	0.48	523	0.71	574	0.97	623	1.25	670	1.55	715	1.88	804	2.58	-	-	-	-	-	-
6320	700	527	0.67	576	0.92	622	1.20	666	1.51	708	1.83	749	2.18	828	2.92	904	3.72	-	-	-	-
7223	800	587	0.91	633	1.20	674	1.50	714	1.82	753	2.17	790	2.54	862	3.32	931	4.16	998	5.05	1064	6.00
8126	900	648	1.20	691	1.53	729	1.86	766	2.21	801	2.57	836	2.96	902	3.78	966	4.66	1028	5.60	1088	6.59
9029	1000	708	1.54	751	1.93	786	2.29	820	2.66	853	3.05	885	3.46	947	4.32	1006	5.25	1064	6.22	1120	7.25
9932	1100	768	1.94	811	2.40	845	2.80	877	3.20	907	3.61	937	4.04	995	4.94	1050	5.91	1104	6.93	1157	8.00
10835	1200	828	2.40	872	2.95	905	3.39	934	3.82	963	4.26	991	4.71	1045	5.66	1097	6.67	1148	7.73	1198	8.84
11738	1300	889	2.94	932	3.56	965	4.07	994	4.53	1020	5.00	1047	5.47	1098	6.47	1147	7.52	1195	8.62	1242	9.78
12641	1400	951	3.57	992	4.25	1026	4.83	1053	5.34	1079	5.84	1104	6.34	1152	7.39	1199	8.48	1244	9.63	1289	10.82
13544	1500	1014	4.31	1053	5.02	1086	5.68	1114	6.25	1139	6.79	1162	7.32	1208	8.42	1252	9.56	1296	10.74	1338	11.98
14446	1600	1078	5.15	1112	5.87	1146	6.62	1174	7.26	1199	7.85	1221	8.42	1265	9.57	1307	10.75	1349	11.98	1389	13.26
15349	1700	1142	6.09	1173	6.82	1207	7.65	1235	8.37	1259	9.01	1281	9.63	1323	10.84	1364	12.08	1403	13.36	1442	14.68
16252	1800	1204	7.11	1234	7.88	1267	8.77	1295	9.58	1319	10.29	1341	10.96	1382	12.24	1421	13.54	1459	14.87	1495	16.23
17155	1900	1267	8.23	1295	9.06	1327	10.00	1355	10.89	1380	11.68	1402	12.41	1442	13.78	1479	15.14	1515	16.52	1551	17.93
18058	2000	1329	9.45	1358	10.39	1387	11.34	1415	12.31	1440	13.19	1462	13.98	1502	15.46	1538	16.88	1573	18.32	1607	19.78
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9029	1000	1174	8.32	1228	9.44	1281	10.60	1334	11.80	-	-	-	-	-	-	-	-	-	-	-	-
9932	1100	1208	9.11	1258	10.27	1308	11.46	1356	12.70	1404	13.98	1452	15.29	1499	16.65	-	-	-	-	-	-
10835	1200	1246	9.99	1293	11.19	1340	12.43	1386	13.70	1431	15.01	1476	16.37	1520	17.75	1564	19.17	1607	20.63	1650	22.12
11738	1300	1288	10.97	1332	12.21	1377	13.49	1420	14.81	1463	16.16	1505	17.55	1547	18.97	1588	20.43	1629	21.92	1670	23.44
12641	1400	1332	12.06	1375	13.34	1417	14.66	1458	16.02	1499	17.41	1539	18.84	1578	20.30	1618	21.80	1656	23.33	1695	24.89
13544	1500	1379	13.26	1420	14.59	1460	15.95	1499	17.35	1538	18.79	1576	20.26	1614	21.76	1652	23.29	1689	24.86	1725	26.46
14446	1600	1428	14.59	1467	15.95	1506	17.36	1543	18.80	1580	20.28	1617	21.79	1653	23.34	1689	24.91	1724	26.52	1759	28.16
15349	1700	1479	16.05	1517	17.45	1553	18.90	1589	20.39	1625	21.91	1660	23.46	1695	25.05	1729	26.67	1763	28.32	1797	30.00
16252	1800	1532	17.64	1568	19.09	1603	20.58	1637	22.11	1672	23.67	1705	25.27	1739	26.90	1772	28.56	1804	30.25	1837	31.97
17155	1900	1586	19.39	1620	20.88	1654	22.41	1687	23.98	1720	25.59	1753	27.23	1785	28.90	1817	30.60	1848	32.34	1879	34.10
18058	2000	1640	21.28	1673	22.82	1706	24.40	1738	26.01	1770	27.66	1801	29.34	1832	31.05	1863	32.80	1893	34.58	1923	36.38
19864	2200	1753	25.57	1784	27.20	1814	28.87	1844	30.56	1874	32.30	1903	34.06	1932	35.86	1961	37.69	1989	39.55	2017	41.44
21670	2400	1869	30.55	1898	32.28	1926	34.05	1954	35.84	1982	37.66	2009	39.51	2036	41.40	2063	43.31	2090	45.26	2116	47.23
23475	2600	1987	36.26	2014	38.12	2041	39.99	2067	41.88	2093	43.79	2119	45.74	2145	47.71	2170	49.72	2195	51.75	2220	53.81
25281	2800	2107	42.74	2133	44.74	2158	46.73	2183	48.74	2208	50.76	2232	52.80	2256	54.87	-	-	-	-	-	-

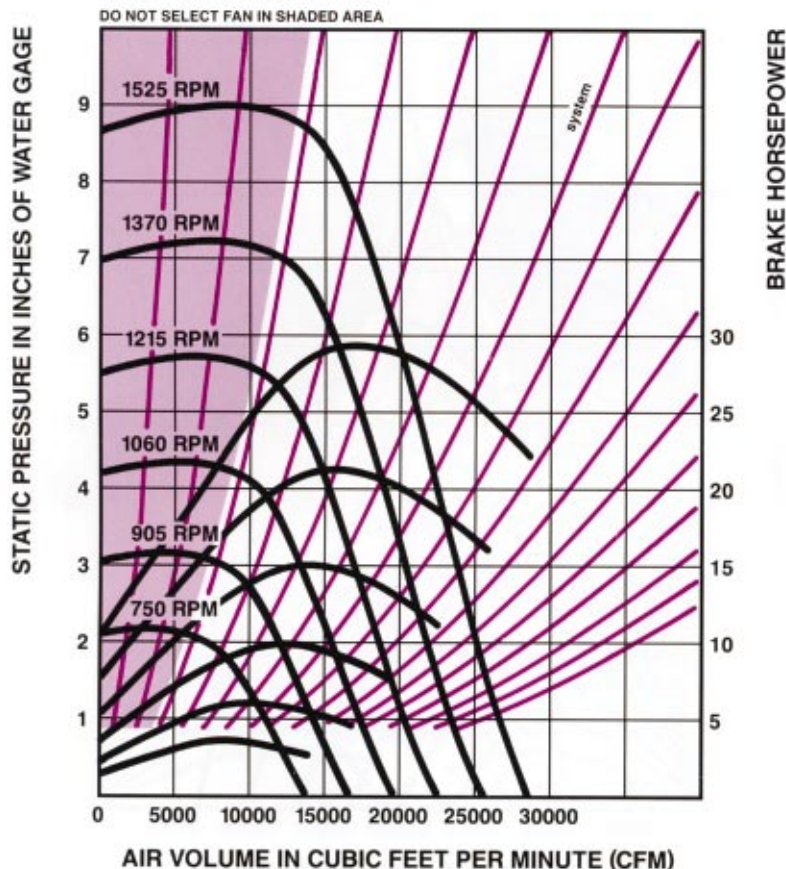
BHP DOES NOT INCLUDED DRIVE LOSSES.
PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUT

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS



C3300

WHEEL DIAMETER—33"

TIP SPEED = 8.639 × RPM

MAX. HP = 8.337 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 44 $\frac{3}{4}$ "
Area = 10.922 Ft²

CLASS 1 = 1292 MAX. RPM

CLASS 2 = 1699 MAX. RPM

CLASS 3 = 2053 MAX. RPM

VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5461	500	373	0.40	430	0.65	483	0.94	534	1.26	582	1.60	-	-	-	-	-	-	-	-	-	-
6553	600	425	0.58	475	0.86	522	1.17	566	1.51	609	1.88	650	2.27	731	3.12	-	-	-	-	-	-
7645	700	479	0.81	524	1.12	566	1.46	606	1.82	644	2.22	681	2.63	753	3.53	822	4.50	-	-	-	-
8738	800	534	1.10	575	1.45	613	1.81	649	2.21	684	2.63	718	3.07	784	4.01	847	5.03	908	6.11	967	7.26
9830	900	589	1.45	628	1.85	663	2.25	696	2.67	728	3.11	760	3.58	820	4.58	878	5.64	934	6.77	989	7.97
10922	1000	643	1.86	683	2.34	715	2.77	746	3.22	775	3.69	804	4.18	861	5.23	915	6.35	967	7.53	1018	8.77
12014	1100	698	2.34	737	2.91	768	3.39	797	3.87	825	4.37	852	4.88	904	5.98	955	7.15	1004	8.39	1051	9.68
13106	1200	753	2.91	793	3.56	822	4.10	850	4.62	875	5.15	901	5.70	950	6.84	998	8.07	1044	9.35	1089	10.69
14199	1300	808	3.56	847	4.31	877	4.92	903	5.48	928	6.05	952	6.62	998	7.83	1043	9.10	1086	10.43	1129	11.83
15291	1400	865	4.32	902	5.14	932	5.84	958	6.46	981	7.07	1004	7.68	1047	8.94	1090	10.26	1131	11.65	1172	13.09
16383	1500	922	5.21	957	6.07	987	6.87	1012	7.56	1035	8.21	1057	8.86	1098	10.18	1138	11.56	1178	13.00	1216	14.50
17475	1600	980	6.23	1011	7.10	1042	8.01	1067	8.78	1090	9.49	1110	10.18	1150	11.57	1188	13.01	1226	14.50	1263	16.05
18567	1700	1038	7.36	1066	8.25	1097	9.25	1122	10.12	1144	10.90	1165	11.65	1203	13.12	1240	14.61	1275	16.16	1310	17.76
19660	1800	1095	8.61	1121	9.54	1151	10.62	1177	11.59	1199	12.45	1220	13.26	1257	14.82	1292	16.38	1326	17.99	1360	19.64
20752	1900	1152	9.95	1178	10.97	1206	12.10	1232	13.18	1255	14.14	1274	15.02	1311	16.68	1345	18.32	1378	19.99	1410	21.70
21844	2000	1208	11.43	1234	12.57	1261	13.72	1287	14.90	1309	15.96	1329	16.92	1365	18.70	1398	20.43	1430	22.17	1461	23.94
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10922	1000	1068	10.07	1117	11.42	1165	12.83	1212	14.28	-	-	-	-	-	-	-	-	-	-	-	-
12014	1100	1098	11.02	1144	12.42	1189	13.87	1233	15.37	1277	16.91	1320	18.51	1363	20.15	-	-	-	-	-	-
13106	1200	1133	12.09	1176	13.54	1218	15.04	1260	16.58	1301	18.17	1341	19.80	1382	21.48	1422	23.20	1461	24.96	1500	26.77
14199	1300	1171	13.28	1211	14.78	1251	16.32	1291	17.92	1330	19.55	1368	21.23	1406	22.95	1444	24.72	1481	26.52	1518	28.36
15291	1400	1211	14.59	1250	16.14	1288	17.74	1326	19.38	1362	21.07	1399	22.80	1435	24.57	1471	26.38	1506	28.23	1541	30.11
16383	1500	1254	16.05	1291	17.65	1327	19.30	1363	20.99	1398	22.73	1433	24.51	1467	26.33	1501	28.19	1535	30.08	1568	32.01
17475	1600	1299	17.65	1334	19.30	1369	21.01	1403	22.75	1437	24.54	1470	26.37	1503	28.24	1535	30.15	1568	32.09	1599	34.07
18567	1700	1345	19.41	1379	21.12	1412	22.87	1445	24.67	1477	26.51	1509	28.39	1541	30.31	1572	32.27	1603	34.26	1633	36.30
19660	1800	1393	21.35	1425	23.10	1457	24.90	1489	26.75	1520	28.64	1550	30.58	1581	32.55	1611	34.56	1640	36.61	1670	38.69
20752	1900	1441	23.46	1473	25.26	1503	27.12	1534	29.02	1564	30.96	1593	32.94	1622	34.97	1651	37.03	1680	39.13	1708	41.26
21844	2000	1491	25.75	1521	27.61	1551	29.52	1580	31.47	1609	33.46	1638	35.50	1666	37.57	1694	39.69	1721	41.84	1749	44.02
24028	2200	1594	30.94	1622	32.91	1649	34.93	1676	36.98	1703	39.08	1730	41.22	1756	43.39	1782	45.61	1808	47.86	1834	50.15
26213	2400	1699	36.97	1725	39.06	1751	41.20	1776	43.36	1802	45.57	1827	47.81	1851	50.09	1876	52.41	1900	54.76	1924	57.15
28397	2600	1806	43.88	1831	46.12	1855	48.38	1879	50.67	1903	52.99	1927	55.34	1950	57.73	1973	60.16	1996	62.61	2018	65.11
30582	2800	1915	51.71	1939	54.13	1962	56.54	1985	58.97	2007	61.42	2029	63.89	2051	66.39	-	-	-	-	-	-

BHP DOES NOT INCLUDED DRIVE LOSSES.

PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET DUCT.

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS

C3650

WHEEL DIAMETER—36½"

TIP SPEED = 9.556 × RPM

MAX. HP = 12.54 × $\left(\frac{\text{RPM}}{1000}\right)^3$

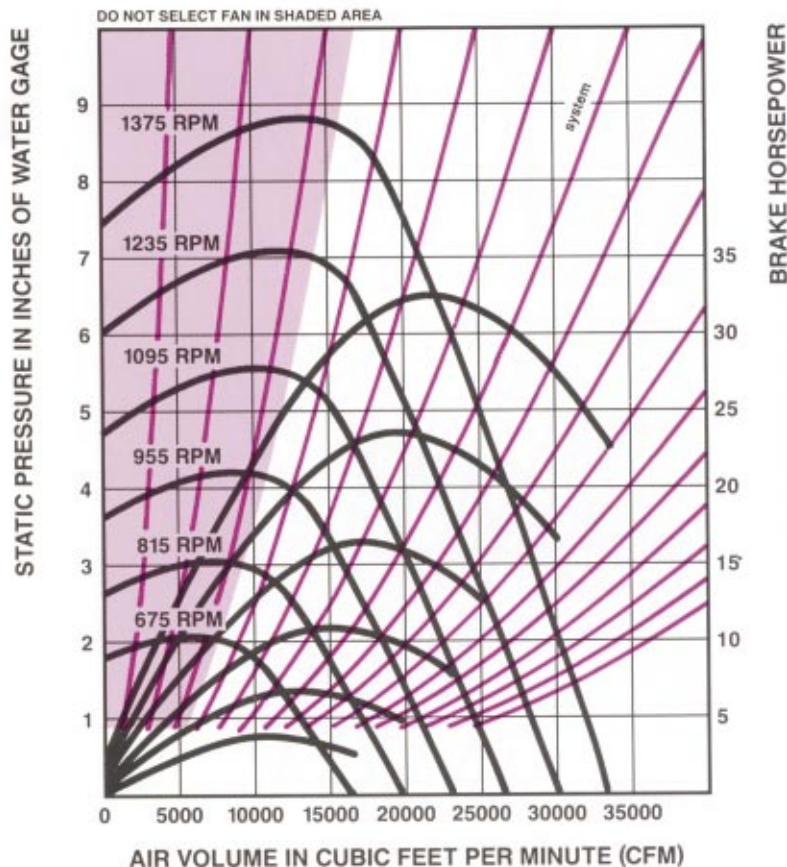
INLET & OUTLET { Diameter = 49½"
Area = 13.4 Ft²

CLASS 1 = 1195 MAX. RPM

CLASS 2 = 1572 MAX. RPM

CLASS 3 = 1852 MAX. RPM

1½ HORSEPOWER MINIMUM IS
REQUIRED TO START THIS FAN.



VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6700	500	344	.047	395	0.76	443	1.08	489	1.43	532	1.79	574	2.17	-	-	-	-	-	-	-	-
8040	600	393	0.67	437	1.00	479	1.36	519	1.74	558	2.15	595	2.57	667	3.45	-	-	-	-	-	-
9380	700	443	0.93	483	1.31	520	1.70	555	2.12	590	2.57	624	3.03	689	3.99	751	5.01	811	6.08	-	-
10720	800	493	1.24	532	1.69	565	2.12	597	2.58	628	3.06	659	3.56	718	4.61	775	5.71	830	6.86	883	8.05
12060	900	544	1.62	582	2.15	612	2.63	641	3.12	669	3.64	697	4.17	752	5.30	805	6.48	856	7.71	905	8.99
13400	1000	596	2.07	632	2.68	661	3.23	688	3.77	714	4.32	739	4.89	790	6.09	838	7.35	886	8.66	932	10.02
14740	1100	648	2.62	682	3.29	711	3.93	737	5.42	761	5.11	784	5.72	830	6.99	876	8.32	920	9.71	963	11.15
16080	1200	701	3.27	733	4.00	761	4.72	786	5.38	809	6.03	831	6.67	874	8.01	916	9.41	957	10.87	998	12.39
17420	1300	754	4.02	783	4.80	812	5.60	836	6.35	858	7.06	879	7.75	919	9.17	959	10.64	997	12.17	1035	13.76
18760	1400	806	4.86	835	5.72	862	6.59	886	7.42	908	8.21	928	8.96	966	10.47	1003	12.01	1040	13.61	1075	15.27
20100	1500	859	5.81	887	6.77	913	7.69	936	8.61	958	9.48	978	10.31	1015	11.92	1050	13.54	1084	15.22	1118	16.94
21440	1600	912	6.91	940	7.97	964	8.92	987	9.91	1008	10.87	1028	11.78	1064	13.52	1097	15.24	1130	16.99	1162	18.78
22780	1700	967	8.20	993	9.30	1015	10.29	1037	11.34	1059	12.39	1078	13.39	1113	15.28	1146	17.10	1177	18.93	1207	20.80
24120	1800	1023	9.69	1046	10.77	1067	11.83	1088	12.92	1109	14.04	1128	15.13	1163	17.18	1195	19.13	1225	21.06	1254	23.01
25460	1900	1078	11.32	1099	12.38	1120	13.54	1140	14.66	1160	15.84	1179	17.01	1213	19.24	1244	21.33	1273	23.37	1301	25.41
26800	2000	1130	12.93	1151	14.12	1173	15.42	1191	16.58	1210	17.80	1229	19.05	1263	21.45	1294	23.70	1323	25.87	1350	28.02
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12060	900	953	10.30	1000	11.65	1046	13.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13400	1000	977	11.41	1022	12.85	1065	14.32	1107	15.82	1148	17.35	-	-	-	-	-	-	-	-	-	-
14740	1100	1006	12.62	1047	14.14	1088	15.69	1128	17.27	1167	18.89	1206	20.54	1244	22.21	1281	23.92	-	-	-	-
16080	1200	1038	13.95	1077	15.54	1116	17.18	1154	18.84	1191	20.54	1227	22.27	1263	24.03	1299	25.81	1334	27.62	1368	29.46
17420	1300	1073	15.39	1110	17.07	1147	18.78	1183	20.53	1218	22.31	1253	24.12	1287	25.96	1321	27.83	1354	29.72	1387	31.64
18760	1400	1111	16.98	1146	18.73	1181	20.52	1215	22.35	1248	24.21	1282	26.10	1314	28.03	1347	29.98	1379	31.95	1410	33.96
20100	1500	1151	18.72	1184	20.54	1217	22.41	1250	24.31	1282	26.25	1313	28.23	1345	30.23	1375	32.26	1406	34.32	1436	36.41
21440	1600	1193	20.63	1225	22.52	1256	24.46	1287	26.44	1317	28.46	1347	30.51	1377	32.59	1407	34.70	1436	36.84	1465	39.01
22780	1700	1237	22.72	1267	24.68	1296	26.69	1326	28.74	1355	30.83	1384	32.95	1412	35.11	1441	37.31	1469	39.53	1497	41.77
24120	1800	1282	25.00	1311	27.03	1339	29.11	1367	31.23	1395	33.39	1422	35.59	1450	37.82	1477	40.09	1504	42.39	1530	44.71
25460	1900	1329	27.48	1356	29.58	1383	31.73	1410	33.92	1436	36.15	1462	38.42	1489	40.72	1515	43.06	1540	45.44	1566	47.84
26800	2000	1376	30.17	1402	32.35	1428	34.57	1454	36.82	1479	39.12	1504	41.46	1529	43.84	1554	46.25	1579	48.69	1604	51.17
29480	2200	1473	36.18	1498	38.54	1522	40.92	1545	43.32	1568	45.76	1592	48.24	1615	50.75	1638	53.30	1661	55.89	1684	58.50
32160	2400	1572	43.05	1596	45.63	1618	48.20	1640	50.78	1662	53.38	1684	56.00	1705	58.66	1726	61.35	1748	64.07	1769	66.83
34840	2600	1672	50.78	1695	53.64	1717	56.45	1738	59.24	1758	62.02	1779	54.82	1799	67.63	1819	70.47	1839	73.33	-	-
37520	2800	1772	59.37	1795	62.56	1816	65.66	1837	68.70	-	-	-	-	-	-	-	-	-	-	-	-

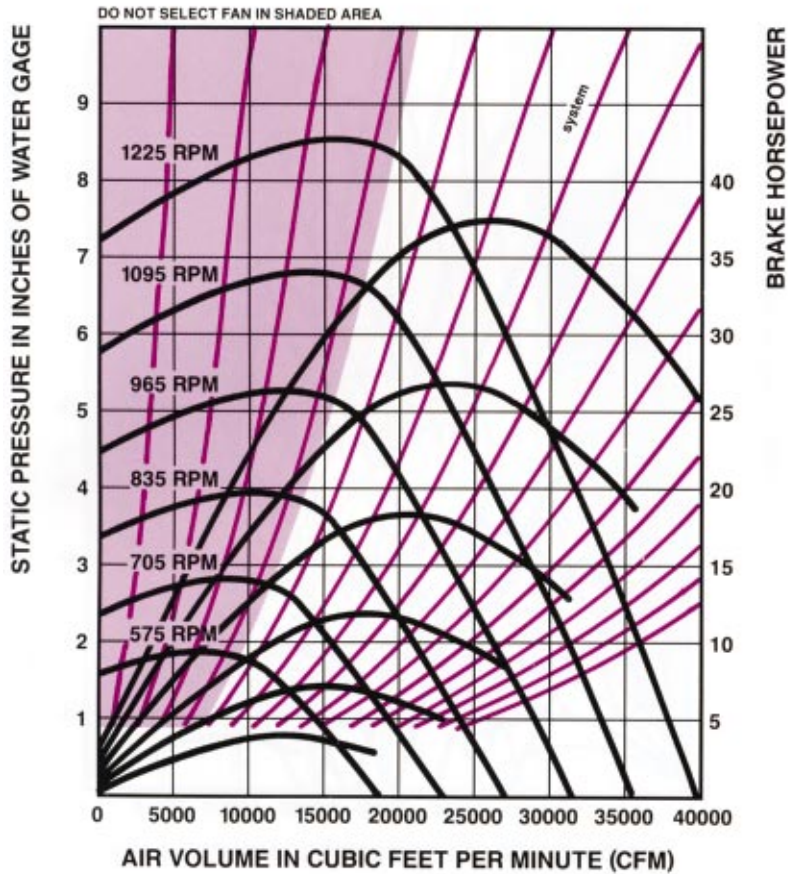
BHP DOES NOT INCLUDED DRIVE LOSSES.
PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS



C4020

WHEEL DIAMETER—40 1/4"

TIP SPEED = 10.54 × RPM

MAX. HP = 20.45 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 54 7/16"
Area = 16.163 Ft²

CLASS 1 = 1083 MAX. RPM

CLASS 2 = 1426 MAX. RPM

CLASS 3 = 1679 MAX. RPM

1 1/2 HORSEPOWER MINIMUM IS
REQUIRED TO START THIS FAN.

VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8082	500	312	0.57	358	0.93	402	1.32	443	1.73	483	2.18	521	2.64	-	-	-	-	-	-	-	-
9698	600	356	0.82	396	1.22	434	1.65	471	2.12	506	2.61	540	3.12	605	4.20	-	-	-	-	-	-
11314	700	402	1.13	438	1.59	471	2.07	504	2.58	535	3.12	566	3.68	625	4.86	681	6.10	735	7.40	-	-
12930	800	447	1.51	482	2.06	512	2.58	541	3.14	569	3.72	597	4.33	651	5.60	703	6.94	753	8.34	801	9.79
14547	900	493	1.96	527	2.61	555	3.20	581	3.80	607	4.42	632	5.08	682	6.44	730	7.88	776	9.38	821	10.93
16163	1000	540	2.52	573	3.26	600	3.93	624	4.59	647	5.25	671	5.95	716	7.40	760	8.93	803	10.53	845	12.18
17779	1100	588	3.19	618	4.01	645	4.78	668	5.50	690	6.22	711	6.96	753	8.49	794	10.12	834	11.81	874	13.55
19396	1200	636	3.98	664	4.86	690	5.73	713	6.54	734	7.33	754	8.11	792	9.74	831	11.44	868	13.22	905	15.06
21012	1300	684	4.89	710	5.83	736	6.81	758	7.72	778	8.58	797	9.43	834	11.15	869	12.94	904	14.80	939	16.73
22628	1400	731	5.91	757	6.95	782	8.01	804	9.03	823	9.98	842	10.90	876	12.73	910	14.61	943	16.56	975	18.57
24245	1500	779	7.07	805	8.24	828	9.35	849	10.47	869	11.53	887	12.53	920	14.49	952	16.47	983	18.50	1013	20.60
25861	1600	827	8.40	853	9.69	874	10.84	895	12.05	914	13.22	932	14.33	965	16.44	995	18.53	1024	20.65	1053	22.84
27477	1700	877	9.97	901	11.31	921	12.52	941	13.80	960	15.07	978	16.28	1010	18.58	1039	20.79	1067	23.02	1095	25.29
29093	1800	927	11.79	949	13.10	968	14.38	987	15.71	1006	17.08	1023	18.40	1055	20.89	1083	23.26	1111	25.61	1137	27.98
30710	1900	977	13.76	996	15.05	1016	16.46	1033	17.83	1052	19.26	1069	20.69	1100	23.39	1128	25.94	1155	28.42	1180	30.90
32326	2000	1024	15.72	1044	17.17	1064	18.75	1080	20.16	1098	21.65	1115	23.16	1146	26.08	1174	28.82	1199	31.46	1224	34.07
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14547	900	865	12.53	907	14.17	949	15.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16163	1000	886	13.88	926	15.62	965	17.41	1004	19.23	1041	21.10	-	-	-	-	-	-	-	-	-	-
17779	1100	912	15.35	950	17.19	987	19.08	1023	21.01	1058	22.97	1093	24.97	1128	27.01	1161	29.08	-	-	-	-
19396	1200	941	16.96	977	18.90	1012	20.89	1046	22.91	1080	24.98	1113	27.08	1146	29.22	1178	31.39	1209	33.59	1241	35.83
21012	1300	973	18.72	1007	20.76	1040	22.84	1072	24.97	1104	27.13	1136	29.33	1167	31.57	1198	33.84	1228	36.14	1258	38.48
22628	1400	1007	20.65	1039	22.78	1071	24.96	1102	27.18	1132	29.44	1162	31.74	1192	34.08	1221	36.45	1250	38.86	1279	41.29
24245	1500	1044	22.76	1074	24.98	1104	27.25	1133	29.57	1162	31.93	1191	34.33	1219	36.76	1247	39.23	1275	41.74	1302	44.27
25861	1600	1082	25.08	1111	27.39	1139	29.74	1167	32.15	1194	34.60	1222	37.10	1249	39.63	1276	42.20	1302	44.80	1329	47.44
27477	1700	1122	27.62	1149	30.01	1176	32.45	1202	34.95	1229	37.49	1255	40.07	1281	42.70	1307	45.36	1332	48.06	1357	50.80
29093	1800	1163	30.40	1189	32.87	1214	35.39	1240	37.97	1265	40.60	1290	43.27	1315	45.99	1339	48.75	1364	51.54	1388	54.37
30710	1900	1205	33.42	1230	35.97	1254	38.58	1278	41.24	1302	43.96	1326	46.72	1350	49.52	1374	52.37	1397	55.25	1420	58.17
32326	2000	1248	36.68	1272	39.34	1295	42.03	1318	44.78	1341	47.57	1364	50.42	1387	53.31	1409	56.24	1432	59.21	1454	62.23
35559	2200	1336	44.00	1358	46.87	1380	49.76	1401	52.68	1422	55.65	1443	58.66	1464	61.71	1485	64.81	1506	67.96	1527	71.14
38791	2400	1426	52.35	1447	55.49	1467	58.62	1487	61.75	1507	64.91	1527	68.10	1546	71.33	1566	74.60	1585	77.91	1604	81.26
42024	2600	1516	61.75	1537	65.23	1557	68.65	1576	72.04	1594	75.42	1613	78.82	1631	82.24	1649	85.69	1667	89.18	-	-
45256	2800	1607	72.20	1628	76.07	1647	79.84	1665	83.54	-	-	-	-	-	-	-	-	-	-	-	-

BHP DOES NOT INCLUDED DRIVE LOSSES.

PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET DUCT.

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS

C4450

WHEEL DIAMETER—44½"

TIP SPEED = 11.65 × RPM

MAX. HP = 33.78 × $\left(\frac{\text{RPM}}{1000}\right)^3$

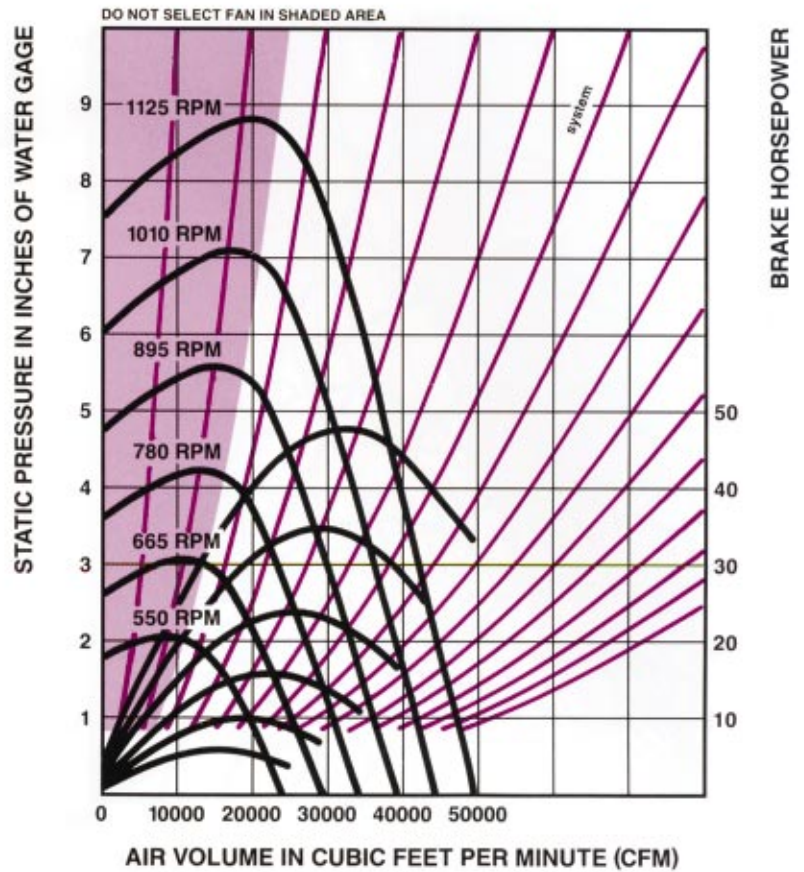
INLET & OUTLET { Diameter = 60½"
Area = 19.963 Ft²

CLASS 1 = 980 MAX. RPM

CLASS 2 = 1290 MAX. RPM

CLASS 3 = 1519 MAX. RPM

1½ HORSEPOWER MINIMUM IS
REQUIRED TO START THIS FAN.



VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9982	500	282	0.70	324	1.13	363	1.61	401	2.12	437	2.66	471	3.22	-	-	-	-	-	-	-	-
11978	600	322	1.00	358	1.49	393	2.02	426	2.59	458	3.19	488	3.82	547	5.13	-	-	-	-	-	-
13974	700	363	1.38	396	1.95	426	2.53	456	3.15	484	3.81	512	4.50	565	5.94	616	7.45	665	9.04	-	-
15970	800	405	1.84	436	2.51	463	3.16	489	3.83	515	4.54	540	5.29	589	6.85	636	8.48	681	10.19	725	11.97
17967	900	446	2.40	477	3.19	502	3.91	526	4.64	549	5.41	572	6.20	617	7.88	660	9.63	702	11.47	743	13.36
19963	1000	489	3.08	518	3.99	542	4.81	564	5.61	586	6.42	607	7.27	648	9.05	688	10.92	727	12.87	765	14.89
21959	1100	532	3.90	559	4.90	583	5.84	604	6.72	624	7.60	643	8.50	681	10.38	718	12.37	755	14.43	790	16.57
23956	1200	575	4.87	601	5.94	624	7.01	645	8.00	664	8.96	682	9.92	717	11.90	751	13.99	785	16.16	819	18.41
25952	1300	618	5.98	643	7.13	666	8.32	686	9.44	704	10.49	721	11.52	754	13.63	786	15.81	818	18.09	849	20.45
####	1400	661	7.23	685	8.50	707	9.79	727	11.03	745	12.20	761	13.32	793	15.56	823	17.86	853	20.24	882	22.70
29944	1500	704	8.64	728	10.07	748	11.42	768	12.79	786	14.09	802	15.32	832	17.72	861	20.13	889	22.62	917	25.18
31941	1600	748	10.27	771	11.84	790	13.25	809	14.73	827	16.16	843	17.51	872	20.10	900	22.65	926	25.25	953	27.92
33937	1700	793	12.19	815	13.82	833	15.30	851	16.86	868	18.41	884	19.90	913	22.70	940	25.42	965	28.14	990	30.92
35933	1800	839	14.41	858	16.01	875	17.58	893	19.21	910	20.87	925	22.49	954	25.54	980	28.44	1004	31.30	1028	34.20
37930	1900	884	16.82	901	18.39	919	20.12	935	21.79	951	23.55	967	25.29	995	28.60	1021	31.71	1044	34.74	1067	37.77
39926	2000	926	19.21	944	20.98	962	22.91	977	24.64	993	26.46	1008	28.31	1036	31.88	1062	35.23	1085	38.46	1107	41.64
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17967	900	782	15.31	820	17.32	858	19.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19963	1000	802	16.96	838	19.10	873	21.28	908	23.51	942	25.79	-	-	-	-	-	-	-	-	-	-
21959	1100	825	18.76	859	21.02	893	23.32	925	25.68	957	28.08	989	30.53	1020	33.02	1051	35.55	-	-	-	-
23956	1200	851	20.73	884	23.10	915	25.53	946	28.01	977	30.53	1007	33.10	1036	35.71	1065	38.37	1094	41.06	1122	43.80
25952	1300	880	22.88	911	25.37	941	27.92	970	30.52	999	33.16	1028	35.85	1056	38.59	1083	41.36	1111	44.18	1138	47.04
####	1400	911	25.24	940	27.84	968	30.50	996	33.22	1024	35.99	1051	38.80	1078	41.66	1105	44.56	1131	47.50	1157	50.47
29944	1500	944	27.82	971	30.53	998	33.31	1025	36.14	1051	39.03	1077	41.96	1103	44.94	1128	47.96	1153	51.02	1178	54.12
31941	1600	979	30.66	1004	33.48	1030	36.36	1055	39.30	1080	42.30	1105	45.34	1130	48.44	1154	51.58	1178	54.76	1202	57.98
33937	1700	1015	33.76	1039	36.68	1063	39.67	1087	42.72	1111	45.82	1135	48.98	1159	52.19	1182	55.45	1205	58.75	1228	62.09
35933	1800	1052	37.16	1075	40.18	1098	43.26	1121	46.42	1144	49.63	1167	52.90	1189	56.22	1211	59.59	1233	63.00	1255	66.46
37930	1900	1090	40.84	1112	43.97	1134	47.16	1156	50.41	1178	53.73	1200	57.10	1221	60.53	1242	64.01	1264	67.54	1285	71.11
39926	2000	1129	44.84	1150	48.08	1171	51.38	1192	54.73	1213	58.15	1234	61.63	1254	65.16	1275	68.74	1295	72.38	1315	76.06
43919	2200	1208	53.78	1228	57.29	1248	60.82	1267	64.39	1286	68.02	1306	71.70	1325	75.43	1343	79.23	1362	83.07	1381	86.96
47911	2400	1290	63.99	1309	67.83	1327	71.65	1345	75.48	1363	79.34	1381	83.24	1399	87.19	1416	91.18	1433	95.23	1451	99.33
51904	2600	1372	75.48	1390	79.73	1408	83.91	1425	88.05	1442	92.19	1459	96.34	1475	100.53	1492	104.74	1508	109.00	-	-
55896	2800	1454	88.25	1472	92.98	1490	97.59	1506	102.12	-	-	-	-	-	-	-	-	-	-	-	-

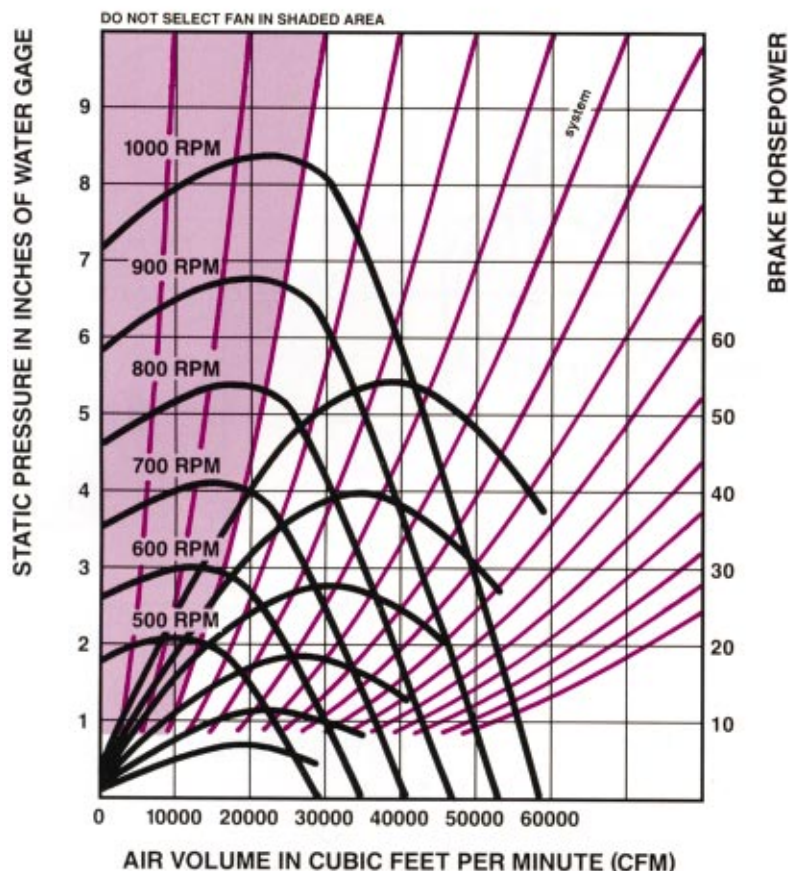
BHP DOES NOT INCLUDED DRIVE LOSSES.
PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

CENTRIFAN PERFORMANCE SPECIFICATIONS



C4900

WHEEL DIAMETER—49"

TIP SPEED = 12.83 × RPM

MAX. HP = 54.68 × $\left(\frac{\text{RPM}}{1000}\right)^3$

INLET & OUTLET { Diameter = 66 $\frac{7}{16}$ "
Area = 24.074 Ft²

CLASS 1 = 890 MAX. RPM

CLASS 2 = 1171 MAX. RPM

CLASS 3 = 1380 MAX. RPM

5 HORSEPOWER MINIMUM IS
REQUIRED TO START THIS FAN.

VOL CFM	VEL FPM	.25 SP		.5 SP		.75 SP		1 SP		1.25 SP		1.5 SP		2 SP		2.5 SP		3 SP		3.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12037	500	256	0.85	294	1.37	330	1.95	364	2.57	397	3.22	428	3.91	-	-	-	-	-	-	-	-
14444	600	293	1.21	325	1.80	357	2.45	387	3.14	416	3.87	443	4.63	497	6.22	513	7.20	560	9.04	604	10.96
16852	700	330	1.67	360	2.36	387	3.07	414	3.82	440	4.62	465	5.45	513	7.20	560	9.04	604	10.96	-	-
19259	800	368	2.23	396	3.05	421	3.83	444	4.65	468	5.51	491	6.41	535	8.30	577	10.29	618	12.36	658	14.51
21667	900	405	2.91	433	3.87	456	4.74	478	5.63	499	6.56	519	7.52	560	9.55	599	11.68	637	13.90	674	16.20
24074	1000	444	3.73	471	4.83	493	5.83	513	6.80	532	7.79	551	8.81	588	10.97	624	13.24	660	15.61	694	18.05
26481	1100	483	4.73	508	5.94	530	7.08	549	8.15	567	9.22	584	10.31	619	12.59	652	14.99	685	17.50	718	20.09
28889	1200	522	5.90	546	7.20	567	8.50	586	9.70	603	10.86	619	12.02	651	14.43	682	16.96	713	19.60	743	22.33
31296	1300	562	7.25	584	8.65	604	10.09	623	11.44	639	12.72	655	13.97	685	16.52	714	19.17	743	21.93	771	24.79
33704	1400	601	8.76	622	10.31	642	11.87	660	13.38	676	14.79	691	16.16	720	18.87	747	21.65	774	24.54	801	27.52
36111	1500	640	10.48	661	12.21	680	13.85	698	15.51	714	17.08	728	18.58	756	21.48	782	24.41	807	27.42	833	30.53
38518	1600	679	12.46	700	14.36	718	16.07	735	17.86	751	19.59	766	21.23	792	24.37	817	27.46	841	30.61	865	33.85
40926	1700	720	14.78	740	16.76	756	18.55	773	20.44	789	22.33	803	24.13	829	27.53	853	30.82	876	34.12	899	37.49
43333	1800	762	17.47	779	19.41	795	21.32	811	23.29	826	25.31	840	27.27	866	30.96	890	34.48	912	37.96	934	41.47
45741	1900	803	20.40	818	22.30	834	24.39	849	26.42	864	28.55	878	30.66	904	34.67	927	38.45	949	42.12	969	45.80
48148	2000	841	23.29	857	25.44	874	27.78	888	29.87	902	32.08	916	34.33	941	38.66	964	42.72	985	46.63	1006	50.49
VOL CFM	VEL FPM	4 SP		4.5 SP		5 SP		5.5 SP		6 SP		6.5 SP		7 SP		7.5 SP		8 SP		8.5 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
21667	900	710	18.57	745	21.00	779	23.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24074	1000	728	20.57	761	23.15	793	25.80	824	28.51	855	31.27	-	-	-	-	-	-	-	-	-	-
26481	1100	749	22.75	780	25.48	811	28.28	840	31.13	869	34.04	898	37.01	926	40.03	954	43.10	-	-	-	-
28889	1200	773	25.13	802	28.01	831	30.96	859	33.96	887	37.02	914	40.13	941	43.30	967	46.52	994	49.78	1019	53.10
31296	1300	799	27.74	827	30.76	854	33.85	881	37.00	907	40.21	933	43.47	959	46.79	984	50.15	1009	53.57	1033	57.03
33704	1400	828	30.60	854	33.76	879	36.98	905	40.28	930	43.63	955	47.04	979	50.51	1003	54.02	1027	57.59	1050	61.20
36111	1500	857	33.73	882	37.02	907	40.39	931	43.82	955	47.32	978	50.87	1002	54.48	1025	58.15	1047	61.86	1070	65.62
38518	1600	889	37.17	912	40.59	935	44.08	958	47.65	981	51.28	1004	54.98	1026	58.73	1048	62.54	1070	66.40	1091	70.30
40926	1700	921	40.94	944	44.48	966	48.10	988	51.79	1009	55.56	1031	59.39	1052	63.28	1073	67.23	1094	71.23	1115	75.28
43333	1800	955	45.05	976	48.71	997	52.46	1018	56.28	1039	60.17	1059	64.13	1080	68.16	1100	72.25	1120	76.39	1140	80.58
45741	1900	990	49.52	1010	53.31	1030	57.18	1050	61.13	1070	65.15	1089	69.24	1109	73.39	1128	77.61	1148	81.89	1167	86.22
48148	2000	1025	54.37	1045	58.30	1064	62.29	1083	66.36	1102	70.51	1120	74.72	1139	79.00	1158	83.35	1176	87.76	1195	92.22
52963	2200	1098	65.21	1116	69.46	1133	73.74	1151	78.07	1168	82.47	1186	86.93	1203	91.46	1220	96.06	1237	100.72	1254	105.44
57778	2400	1171	77.59	1188	82.24	1205	86.88	1222	91.52	1238	96.20	1254	100.93	1270	105.71	1286	110.56	1302	115.47	1318	120.43
62592	2600	1246	91.52	1262	96.67	1279	101.74	1294	106.76	1310	111.78	1325	116.82	1340	121.89	1355	127.00	-	-	-	-
67407	2800	1320	107.01	1337	112.74	1353	118.33	1368	123.82	-	-	-	-	-	-	-	-	-	-	-	-

BHP DOES NOT INCLUDE DRIVE LOSSES.

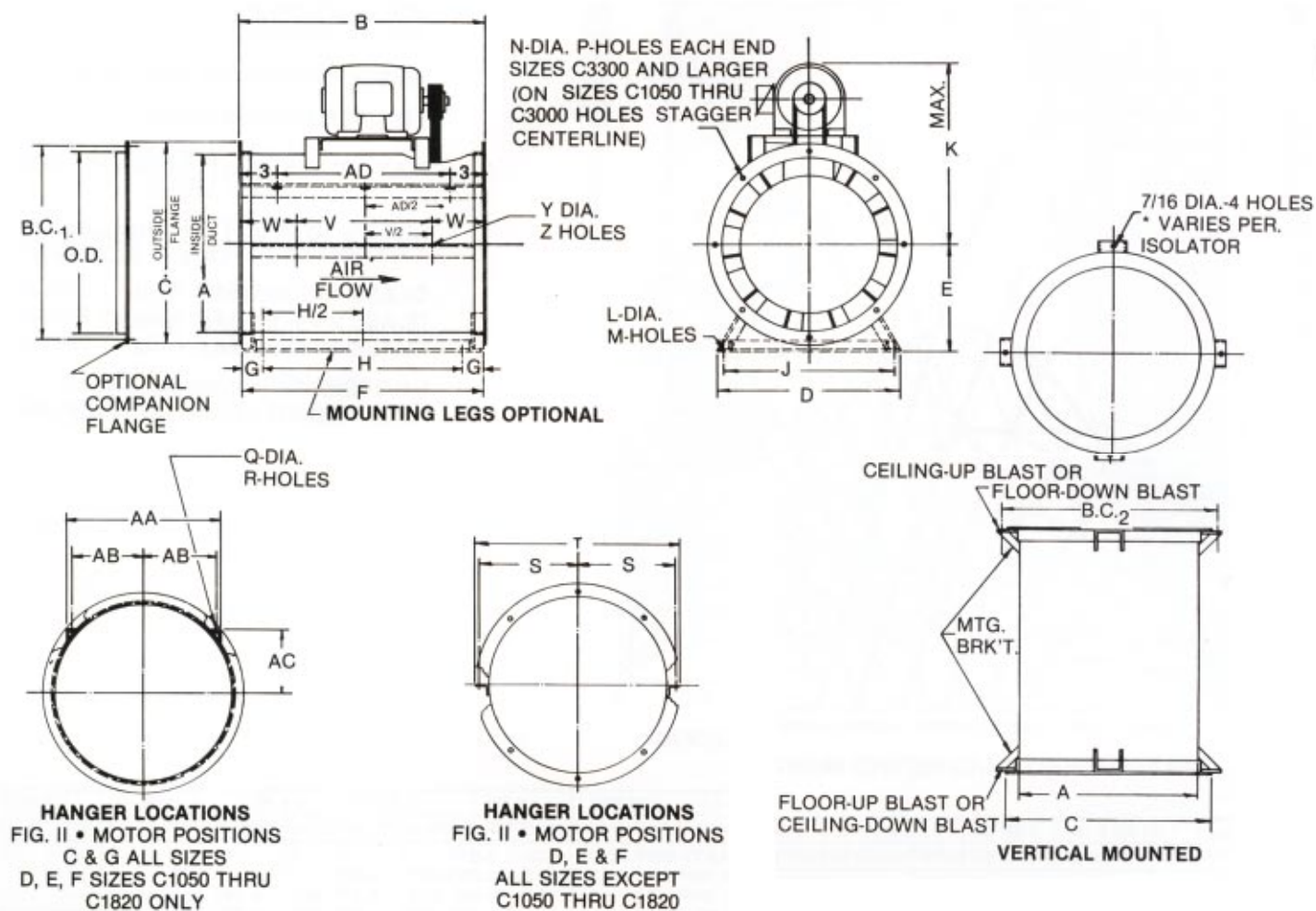
PERFORMANCE SHOWN IS FOR CENTRIFANS WITH OUTLET DUCT.

CLASS I BLOWER

CLASS II BLOWER

CLASS II BLOWER

Centrifan Arrangement 4 and 9

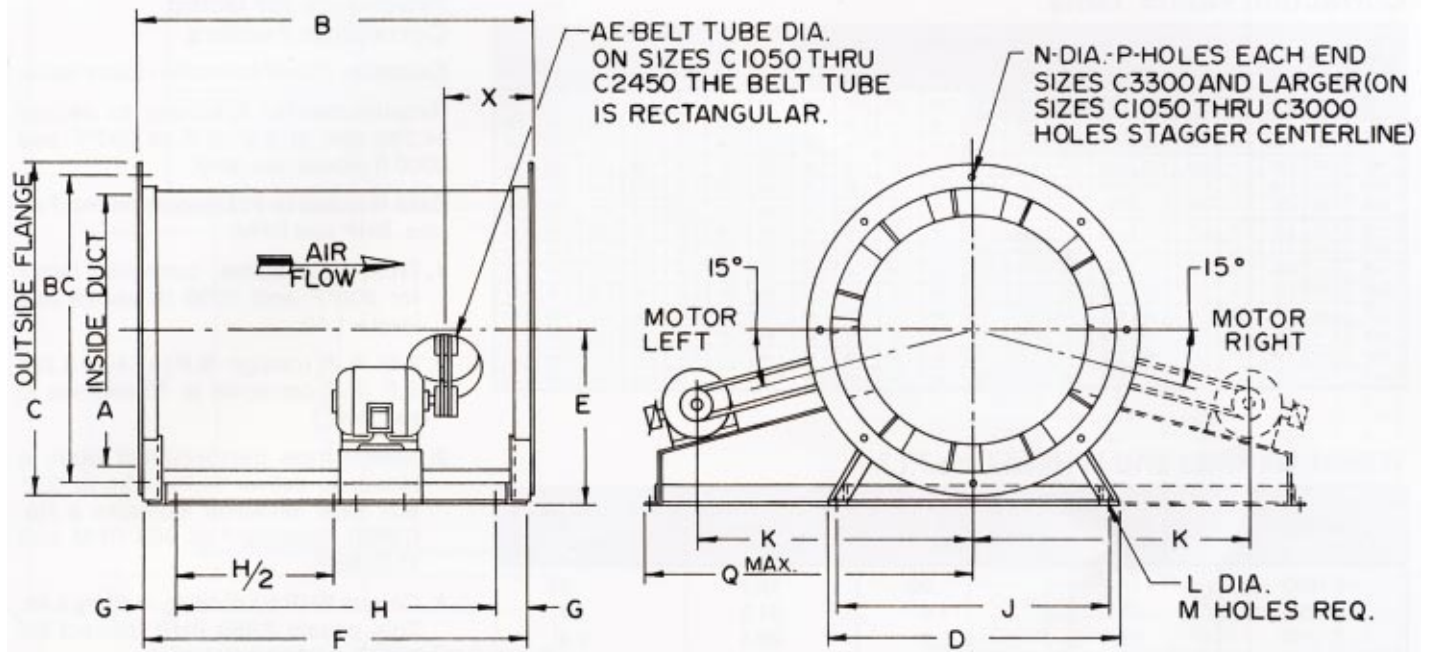


Dimensions in inches

Certified dimension prints available upon re-

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	W	Y	Z	AA	AB	AC	AD	BC1	BC2	CL I	CL II	O.D.
																													SHAFT DIA.		
C1050	14-1/8	18-1/2	16-1/8	14	9-3/4	18-1/4	2-5/8	13	12-1/4	19-3/4	9/16	4	5/16	8	1/2-13	4	7-15/16	17-3/8	9-1/2	4-1/2	9/16	4	11-5/8	5	6-1/2	12-1/2	15-1/8	20-3/8	1	1	14-3/8
C1220	16-9/16	21-5/8	18-9/16	17	11-1/8	21-3/8	2-5/8	16-1/8	15-1/4	22-5/8	9/16	4	5/16	8	1/2-13	4	9-1/8	19-3/4	12-5/8	4-1/2	9/16	4	12	4-3/4	8	15-5/8	17-9/16	22-11/16	1	1-3/16	16-13/16
C1350	18-3/8	24	20-3/8	18	12	23-3/4	2-5/8	18-1/2	16-1/4	23-1/2	9/16	4	5/16	8	1/2-13	4	10-1/16	21-5/8	15	4-1/2	9/16	4	14-1/4	5-7/8	8	18	19-3/8	24-7/16	1	1-3/16	18-5/8
C1500	20-5/16	26-5/8	22-5/16	20	12-3/4	26-3/8	2-5/8	21-1/8	18-1/4	24-1/2	9/16	4	5/16	8	1/2-13	4	11	23-1/2	17-5/8	4-1/2	9/16	4	17	7-1/4	8-1/2	20-5/8	21-5/16	26-1/2	1	1-3/16	20-9/16
C1650	22-5/16	29-3/8	24-5/16	22	14	29-1/8	2-5/8	23-7/8	20-1/4	27-1/2	9/16	4	5/16	12	1-2/13	4	12	25-1/2	20-5/8	4-1/2	9/16	4	18-1/2	8	9-1/4	23-3/8	23-5/16	28-9/16	1	1-7/16	22-9/16
C1820	24-11/16	32-3/8	26-11/16	25	15-1/8	32-1/8	2-5/8	26-7/8	23-1/4	29-1/2	9/16	4	5/16	12	1-2/13	4	13-3/16	27-7/8	23-3/8	4-1/2	9/16	4	20	8-7/8	10	26-3/8	25-11/16	31	1-3/16	1-7/16	24-15/16
C2000	27-5/16	35-5/8	29-13/16	27	16-1/4	35-3/8	2-5/8	30-1/8	25-1/4	30-1/4	9/16	4	5/16	12	1-2/13	4	14-9/16	30-5/8	26-5/8	4-1/2	9/16	4	22	9-3/4	10-7/8	29-5/8	28-9/16	33-3/8	1-3/16	1-7/16	27-9/16
C2220	30-5/16	39-1/2	32-13/16	30	18-1/8	39-1/8	3-1/4	32-5/8	28-1/4	31-1/4	9/16	6	5/16	12	1-2/13	4	16-1/16	33-5/8	30-1/2	4-1/2	9/16	4	24-1/4	10-7/8	12-1/8	33-1/2	31-9/16	37-9/16	1-3/16	1-11/16	30-9/16
C2450	33-1/4	43-5/8	35-3/4	33	19-3/4	43-1/4	3-3/4	35-3/4	31-1/4	32-7/8	7/8	6	3/8	16	1/2-13	4	17-3/4	37-1/2	33-5/8	5	11/16	4	26-1/2	11-3/4	13-1/4	37-5/8	34-1/2	40-1/2	1-7/16	1-11/16	33-1/2
C2700	36-5/8	48	39-1/8	37	21-1/2	47-5/8	3-3/4	40-1/8	35-1/4	34-1/2	7/8	6	3/8	16	1/2-13	4	19-7/16	40-7/8	38	5	11/16	4	29-1/2	13-1/4	14-3/4	42	37-7/8	43-7/8	1-11/16	1-15/16	36-7/8
C3000	40-11/16	53-3/8	43-3/16	41	23-1/2	53	3-3/4	45-1/2	39-1/4	38	7/8	6	3/8	16	1-2/13	6	21-1/2	45	43-3/8	5	11/16	6	32	14-1/2	16	47-3/8	41-15/16	47-15/16	1-11/16	1-15/16	40-15/16
C3300	44-3/4	58-3/8	49	45	26	58-1/4	3-3/4	50-3/4	43-1/4	44	7/8	6	7/16	8	1/2-13	6	23-3/4	50	48-5/8	5	11/16	6	34-3/4	15-7/8	17-3/8	52-5/8	47-1/4	52	1-15/16	2-3/16	45-3/8
C3650	49-1/2	64-7/8	53-3/4	50	28-3/8	64-1/2	3-3/4	57	48-1/4	46-3/8	7/8	4	7/16	8	1/2-13	4	26-1/8	54-3/4	54-7/8	5	11/16	4	38-1/4	17-5/8	19-1/8	58-7/8	52	56-1/2	2-3/16	2-3/16	50-1/8
C4020	54-7/16	71-1/2	59-3/4	55	31	71	4-1/4	62-1/2	52-1/2	49	7/8	4	7/16	8	5/8-11	4	28-5/8	59-3/4	60-1/2	5-1/2	7/8	4	42	19-1/2	21	65-1/2	57-1/2	62-1/4	2-3/16	2-7/16	55-1/8
C4450	60-1/2	79-1/8	65-3/4	61	33-7/8	78-5/8	4-1/4	70-1/8	58-1/2	51-7/8	7/8	4	9/16	16	5/8-11	4	31-5/8	65-3/4	68-1/8	5-1/2	7/8	4	45-3/4	21-1/2	22-7/8	73-1/8	63-1/2	70-1/2	2-3/16	2-11/16	61-1/8
C4900	66-7/16	87-1/8	71-3/16	67	37	86-5/8	4-1/4	78-1/8	64-1/2	54	7/8	4	9/16	16	5/8-11	4	34-11/16	71-7/8	76-1/8	5-1/2	7/8	6	50	23-5/8	25	81-1/8	69-9/16	*	2-7/16	2-15/16	67-3/16

Centrifan® Arrangement 1



MOTOR POSITIONS SHOWN ARE VIEWED FROM DISCHARGE END

SIZE	A	B	C	D	E	F	G	H	J	L	M	N	P	MAX. Q*	X	AE	B.C.	CL I	CL II	FRAMEK		FRAMEK	
																		SHAFT DIA.		MIN. MOTOR		MAX. MOTOR	
C1050	14-1/8	18-1/2	16-1/8	14	9-3/4	18-1/4	2-5/8	13	12-1/4	9/16	4	5/16	8	27	3	3-7/8X6	15-1/8	1	1	48	15-3/8	184T	17-1/2
C1220	16-9/16	21-5/8	18-9/16	17	11-1/8	21-3/8	2-5/8	16-1/8	15-1/4	9/16	4	5/16	8	31	3	3-7/8X6	17-9/16	1	1-3/16	48	16-3/4	215T	20-1/2
C1350	18-3/8	24	20-3/8	18	12	23-3/4	2-5/8	18-1/2	16-1/4	9/16	4	5/16	8	32	3	3-7/8X6	19-3/8	1	1-3/16	48	17-1/2	215T	21-1/2
C1500	20-5/16	26-5/8	22-5/16	20	12-3/4	26-3/8	2-5/8	21-1/8	18-1/4	9/16	4	5/16	8	35-1/2	3	3-7/8X6-5/8	21-5/16	1	1-3/16	48	18-1/2	256T	23-1/2
C1650	22-5/16	29-3/8	24-5/16	22	14	29-1/8	2-5/8	23-7/8	20-1/4	9/16	4	5/16	12	36-1/2	3-1/2	4-7/8X8	23-5/16	1	1-7/16	48	19-1/2	256T	24-1/2
C1820	24-11/16	32-3/8	26-11/16	25	15-1/8	32-1/8	2-5/8	26-7/8	23-1/4	9/16	4	5/16	12	40-1/2	3-1/2	4-7/8X9	25-11/16	1-3/16	1-7/16	48	20-5/8	286T	27-1/2
C2000	27-5/16	35-5/8	29-13/16	27	16-1/4	35-3/8	2-5/8	30-1/8	25-1/4	9/16	6	5/16	12	41-3/4	3-1/2	4-7/8X9	28-9/16	1-3/16	1-7/16	48	22	286T	28-3/4
C2220	30-5/16	39-1/2	32-13/16	30	18-1/8	39-1/8	3-1/4	32-5/8	28-1/4	9/16	6	5/16	12	43	3-1/2	4-7/8X10	31-9/16	1-3/16	1-11/16	48	23-3/8	286T	30
C2450	33-1/4	43-5/8	35-3/4	33	19-3/4	43-1/4	3-3/4	35-3/4	31-1/4	7/8	6	3/8	16	47	3-1/2	4-7/8X11	34-1/2	1-7/16	1-11/16	48	24-3/4	326T	32-1/2
C2700	36-5/8	48	39-1/8	37	21-1/2	47-5/8	3-3/4	40-1/8	35-1/4	7/8	6	3/8	16	48-1/2	10-1/2	12	37-7/8	1-11/16	1-15/16	56	27	326T	34
C3000	40-11/16	53-3/8	43-3/16	41	23-1/2	53	3-3/4	45-1/2	39-1/4	7/8	6	3/8	16	55-1/2	11-1/2	13	41-15/16	1-11/16	1-15/16	182T	30-1/2	365T	39-1/2
C3300	44-3/4	58-3/8	49	45	26	58-1/4	3-3/4	50-3/4	43-1/4	7/8	6	7/16	8	57-1/2	12-1/2	14	47-1/4	1-15/16	2-3/16	182T	32-1/2	365T	41-1/2
C3650	49-1/2	64-7/8	53-3/4	50	28-3/8	64-1/2	3-3/4	57	48-1/4	7/8	4	7/16	8	62-1/2	14	16	52	2-3/16	2-3/16	182T	34-3/4	405T	45
C4020	54-7/16	71-1/2	59-3/4	55	31	71	4-1/4	62-1/2	52-1/2	7/8	4	7/16	8	66	15	17	57-1/2	2-3/16	2-7/16	213T	39	405T	47-1/2
C4450	60-1/2	79-1/8	65-3/4	61	33-7/8	78-5/8	4-1/4	70-1/8	58-1/2	7/8	4	9/16	16	69	16-1/2	19	63-1/2	2-3/16	2-11/16	213T	42	405T	50-1/2
C4900	66-7/16	87-1/8	71-3/16	67	37	86-7/8	4-1/4	78-1/8	64-1/2	7/8	4	9/16	16	76-1/2	18	21	69-9/16	2-7/16	2-15/16	213T	44-3/4	445T	56-1/2

TEMPERATURE AND ALTITUDE CORRECTION DATA

CORRECTION FACTOR TABLE

AIR TEMP DEG. F.	ALTITUDE IN FEET ABOVE SEA LEVEL															
	0	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500
0°	0.87	0.89	0.91	0.92	0.94	0.96	0.98	0.99	1.01	1.03	1.05	1.06	1.09	1.1	1.13	1.15
40°	0.94	0.96	0.98	1	1.02	1.04	1.06	1.08	1.1	1.12	1.14	1.16	1.19	1.2	1.23	1.26
70°	1	1.02	1.04	1.06	1.08	1.1	1.12	1.14	1.16	1.18	1.2	1.22	1.25	1.27	1.3	1.32
80°	1.02	1.04	1.06	1.08	1.1	1.12	1.14	1.16	1.19	1.21	1.23	1.26	1.28	1.3	1.33	1.36
100°	1.06	1.08	1.1	1.12	1.14	1.16	1.19	1.21	1.23	1.25	1.28	1.3	1.33	1.35	1.38	1.41
120°	1.09	1.12	1.14	1.16	1.18	1.2	1.23	1.25	1.28	1.3	1.32	1.35	1.38	1.4	1.43	1.46
140°	1.13	1.15	1.18	1.2	1.22	1.25	1.27	1.29	1.32	1.34	1.37	1.4	1.42	1.45	1.48	1.51
160°	1.17	1.19	1.22	1.24	1.26	1.29	1.31	1.34	1.36	1.39	1.42	1.44	1.47	1.5	1.53	1.56
180°	1.21	1.23	1.26	1.28	1.3	1.33	1.36	1.38	1.41	1.43	1.46	1.49	1.52	1.55	1.58	1.61
200°	1.25	1.27	1.29	1.32	1.34	1.37	1.4	1.42	1.45	1.48	1.51	1.54	1.57	1.6	1.63	1.66
250°	1.34	1.36	1.39	1.42	1.45	1.47	1.5	1.53	1.56	1.59	1.62	1.65	1.68	1.71	1.74	1.78
300°	1.43	1.46	1.49	1.52	1.55	1.58	1.61	1.64	1.67	1.7	1.74	1.77	1.8	1.84	1.87	1.91
350°	1.53	1.56	1.59	1.62	1.65	1.68	1.72	1.75	1.78	1.81	1.85	1.88	1.92	1.96	2	2.04
400°	1.62	1.65	1.69	1.72	1.75	1.79	1.82	1.85	1.89	1.93	1.96	2	2.04	2.08	2.12	2.16

WHEEL WEIGHTS AND WR² IN LBS. FT.²

FAN SIZE	CLASS I		CLASS II	
	WEIGHT	WR ²	WEIGHT	WR ²
C1050	12.7	0.92	15.1	0.93
C1220	20.2	1.9	24.3	2.7
C1350	23.4	2.9	28.4	3.9
C1500	27.5	4.3	33.6	5.7
C1650	35	6.9	42.3	8.3
C1820	41	10.5	49.6	12.6
C2000	56.5	17	56.4	17.4
C2220	67.5	22.9	60.3	23
C2450	80.5	38.4	77.6	34.2
C2700	93	49	92	49
C3000	111	76	111	76
C3300	132	111	132	111
C3650	198	209	198	209
C4020	247	322	280	327
C4450	298	481	332	487
C4900	430	795	430	795
C5420	533	1228	533	1228
C6000	630	1818	718	1923
C6600	815	2688	846	2805
C7300	1169	4919	1303	5146
C8070	1847	9355	1886	9812
C8900	2226	14423	2279	14800

Procedure for Using Correction Factors

Example: Use of correction factor table.

Requirements: A blower to deliver 14,740 cfm at 2.5" S.P. at 200°F and 3000 ft. above sea level.

Data Needed to Fill Requirement: Fan size, BHP and RPM.

1. From table above, correction factor for 200°F and 3000 ft. above sea level = 1.40.
2. 2.5" S.P. (design S.P.) x 1.40 = 3.5" S.P. (S.P. corrected to 70 degrees at sea level).
3. Select from performance table a blower to deliver 14,740 cfm at 3.5" S.P. Best selection indicates a No. C3650 Centrifan® at 963 RPM and 11.15 BHP.
4. Correct BHP by dividing 11.15 by 1.40. This equals 7.964 BHP (correct for 200°F at 3000 ft. altitude).

Recommended Selection: "Centrifan"® size C3650: capacity 14,740 cfm, S.P. 2.5", temperature 200°F, altitude 3000 ft., 963 RPM, 7.964 BHP.

Temperature Operating Limits

Arrangement Steel Construction	Arrangement 1 and 9	Arrangement 4
Class I, II and III	-20°F to 150°F	-20°F to 100°F

Note: Contact Factory for Special Hi-Temperature Units

STANDARDS ADOPTED FOR SPARK-RESISTANT FANS AMCA STANDARD 99-0401-86

Spark Resistant – Type A: AMCA standards require that all parts of the fan in contact with the air or gas being handled shall be made of non-ferrous material.

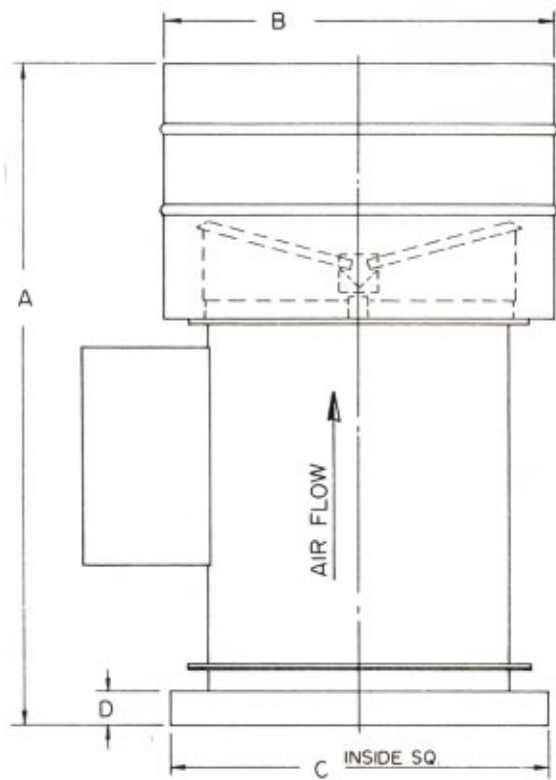
Spark Resistant – Type B: AMCA standards require the fan to have the wheel and ring about the opening through which the shaft passes of non-ferrous material. Ferrous hubs, shafts and hardware are permitted. Fans for this condition are furnished with a non-ferrous wheel (except hub and hardware) and a non-ferrous rubbing plate or non-ferrous shaft seal around the shaft opening.

Spark Resistant – Type C: AMCA standards require the fan to be so constructed that a shift of the wheel or shaft will not permit two ferrous parts of the fan to rub or strike. Fans for this condition will be furnished with a non-ferrous inlet cone and rubbing plate around the shaft opening.

Note: For all type spark resistant fans, the user shall electrically ground all fan parts. Either A or B construction conforms to requirements of National Board of Fire Underwriters Pamphlet No. 91 for Fans handling flammable vapors. Bearings

Bearings shall not be placed in the air or gas stream. A non-ferrous material shall be any material with less than 5% iron or any other material with demonstrated ability to be spark resistant.

The use of these constructions in no way implies a guarantee of safety for any level of spark resistance. Spark resistant construction does not protect against ignition of explosive gases caused by catastrophic failure or from any airstream material that may be present in a system.



UPBLAST CLASS I

SIZE	A	B	C	D
C1050	34-5/8	19-3/8	22	3
C1220	39-3/4	24-1/4	25	3
C1350	43-1/8	26-1/4	26	3
C1500	46-3/4	28-3/8	28	3
C1650	50-1/2	30	30	3
C1820	55-1/2	32-3/8	31	4
C2000	61	35-1/2	36	4
C2220	66-7/8	38-3/8	40	4
C2450	73	41-3/8	42	4
C2700	80	45	46-1/2	4
C3000	87	49	50-1/2	4
C3300	94-5/8	53	54-1/2	4
C3650	103-7/8	58	58	4
C4020	113-1/2	63	63	4
C4450	124-1/8	69	69	4
C4900	134-5/8	78	75	4

CENTRIFAN®
TYPICAL SPECIFICATIONS

Furnish and install where shown on the plans Peerless Electric “Centrifan®” inline centrifugal fans having wheel diameters, outlet velocities, speeds and horsepower not to exceed that shown on the equipment schedule. Cataloged performance shall be based on tests made in accordance with AMCA Standard 210.

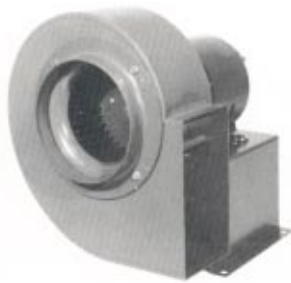
Fan housings shall be all welded cylindrical selections with flanged inlet and outlet

connections. Inlet and outlet areas shall be identical to accommodate a single duct size. Housing shall contain multiple conversion vanes to minimize noise generation. Inner cylindrical section, entirely concentric with housing, thus removing the bearings and drive from the airstream. All units shall be statically and dynamically balanced and shall carry the “Peerless” certified balance label.

All vertical fans shall be Arrangement No. 9 with motor mounted on an adjustable base welded to the housing. All horizontal fans shall be Arrangement

No. 9, as above, or Arrangement No.1 with the motor mounted on the fan base. Arrangement No. 4 fans may be used as indicated on the schedule.

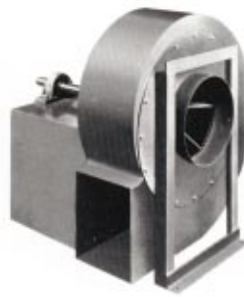
Fan wheels 27” diameter and larger shall have die formed hollow airfoil section blades. Fan wheels 24-1/2” and smaller in diameter shall have single plate backward inclined blades.



DIRECT DRIVE
BLOWERS



PRESSURE
BLOWERS



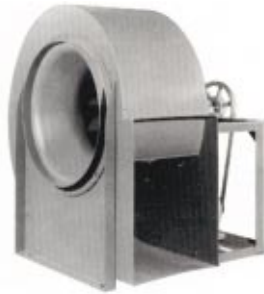
INDUSTRIAL
FANS



DIRECT DRIVE
EXHAUST FANS



IN-LINE
CENTRIFUGALS



BACKWARD INCLINED
BELT DRIVE BLOWERS



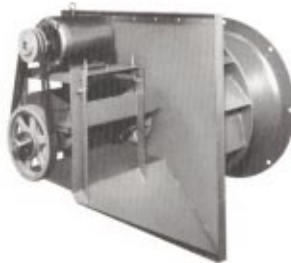
CAST IRON
HOUSED BLOWERS



BELT DRIVE
PROPELLER FANS



POWERFOIL BLOWERS



PLUG-PAK FANS



FORWARD CURVE
BELT DRIVE BLOWERS

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1385



PEERLESS ELECTRIC

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AFFILIATE OF PEERLESS-WINSMITH, INC.

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