

PEERLESS
BLOWERS

Powerfoil Blowers

Non-Overloading Blowers



Your Clean Air Source!

PEERLESS BLOWERS

"POWERFOIL" NON-OVERLOADING BLOWERS

HIGH QUALITY... HIGH EFFICIENCY... VERSATILITY

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Established in 1893, **Peerless Blowers** has a well established record of manufacturing a complete line of heavy-duty industrial fans and blowers, as well as propeller fans for commercial and industrial applications. For over a hundred years, thousands of customers have come to know and depend on the quality-built, reliable and efficient fans and blower products produced by **Peerless Blowers**. Our engineering and design departments are experts assisting customers develop custom-designed air conveying systems that will meet and exceed their critical fan or blower application requirements.

Fans and blower products manufactured by **Peerless Blowers** have and continue to provide exceptional performance, cost-efficient operation and long-term service to customers in numerous OEM,

commercial and industrial markets, including:

- Aviation • Automotive • Chemical
- Clothing • Food • Foundries
- Graphics/Printing • HVAC • Leather
- Maintenance • Manufacturing
- Mining • Paint • Paper/Pulp
- Petroleum • Plastics • Rail • Rubber
- Steel • Textile • And More!

Fans and blowers produced by **Peerless Blowers** have been application engineered and designed to meet and exceed all the requirements of today's air moving needs. Tested/rated to meet AMCA/ASHRAE Codes, our blowers are designed to provide maximum performance, long-term service and cost efficient operation in a wide variety of applications and environments.

Regardless of your air movement requirements, Peerless Blowers ... IS YOUR CLEAN AIR SOURCE!

PEERLESS BLOWERS — GENERAL CONSTRUCTION FEATURES

Wheels

Flat Blade Wheel — backwardly inclined non-overloading wheels standard on sizes 105 thru 245. Airfoil Wheel — backward curved airfoil wheels standard on sizes 270 thru 365. All wheels are statically and dynamically balanced.

Inlet

Circular stamped ring. Rigid streamlined inlet.

Frame

All welded steel construction. Easy access to motor for servicing.

Housing

All are convertible and may be rotated easily to any of eight 45° positions.

Motor Base

Heavy construction assures sturdy base for motor mounting and features easy adjustment for belt tension.

Bearings

Self-aligning ball bearing pillow blocks. These bearings are designed to operate under the most severe atmospheric conditions.

Shaft

Ground and polished solid steel key-wayed on each end.

Motor

Commercial standard Fan and Blower duty motors are job-matched to each requirement. All types of current characteristics, enclosures and bearing construction are available.

Adjustable V-Belt Drive

High quality CAST Iron adjustable pitch motor sheaves are standard equipment. V-Belts with ample service factor are also employed. When performance data is specified, the blowers are factory set to exact blower speed to meet job requirements. Constant speed drives are also available.



"POWERFOIL" NON-OVERLOADING BLOWERS

The Peerless Blowers "Powerfoil" blower with airfoil blades is a popular selection for both commercial and industrial markets. Typical uses include heating and ventilation in office buildings, schools, factories and hospitals.

The combination of scientifically designed airfoil blades with the highly desirable non-overloading characteristic of backwardly inclined blades produce a unit that offers the ultimate in high efficiency and quiet operation.

Each blower housing is continuously welded for sturdy construction. "Powerfoil" blowers are equipped with self-aligning bearings. Computerized selections have been made on all bearings based on radial, thrust and combined loads to give 100,000 average life hours (AFBMA L₅₀) on standard units at the maximum design of each blower class. Bearings are available for 400,000 average life hours (AFBMA L₅₀). Shafts of nonsulphurized carbon steel are precisely ground and polished for a precision

fit. Each wheel is statically and dynamically balanced for optimum trouble-free performance and longevity. The "Powerfoil" blower is built with dependability and minimum maintenance in mind.

Wheel sizes range from 27" thru 49". These units are furnished in single and double width and are available in all AMCA construction classes. Our many accessories and arrangements allow for various individualized applications.

SPECIFICATION GUIDE FOR CENTRIFUGAL AIRFOIL FANS

Furnish and install, as shown on the plans and /or in the schedule of equipment, backwardly inclined non-overloading Airfoil blade fans. Each fan unit shall have an air capacity not less than that indicated on the drawings when operating against the indicated external static pressure. Each fan unit shall be furnished and installed complete with electric motor, anti-vibration base, and V-belt drive.

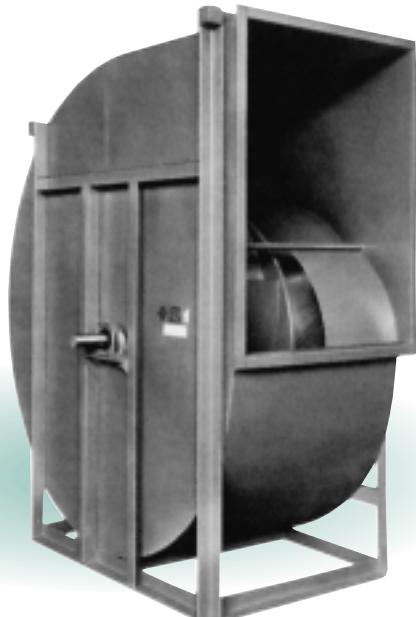
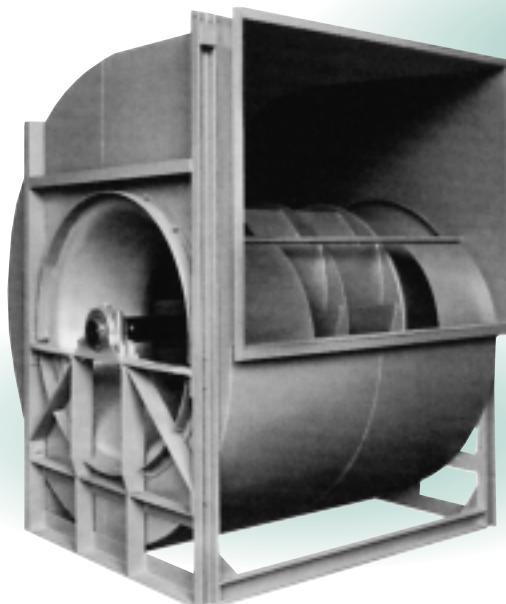
Fan housings shall be constructed of heavy gage steel completely seam-welded for air tight construction. Housings shall have heavy angle or channel side support members, and shall be of a fixed discharge design. Housing discharge outlets shall conform with AMCA recommended standards for centrifugal fan outlet areas.

Fan wheels shall be constructed of Airfoil type, backwardly inclined blades continuously seam-welded to backplate and wheel cone. Wheel

and fan shaft shall be dynamically balanced in combination at the specified speed, and shall operate without objectionable vibration.

Fan shafts shall be of nonsulphurized carbon steel, machined to close tolerances, and shall be keyed to the fan wheel.

Fan units set forth in this specification shall be those known as "Powerfoil," as manufactured by Peerless Blowers.



ENERGY SAVINGS WITH FANS UTILIZING VARIABLE INLET VANES

Inlet vanes are often used for capacity modulation. They give accurate modulation and power savings over other styles of dampers at reduced air flow.

When an inlet vane is partially closed, each blade directs the air into the wheel in the direction of rotation and so the air is prespun. This brings

about a reduction in the CFM, static pressure and BHP. The amount of BHP savings at reduced CFM is determined by the type of system and type of Fan-Vane combination.

Peerless Blowers realizes the importance of providing accurate and complete engineering information

regarding inlet vanes. This comprehensive engineering data is a direct result of information derived from tests performed in our laboratory.

In selecting vanes caution must be used below 50% of the design CFM since there is a possibility that fan pulsation may occur.

Powerfoil Nested Type Inlet Vane Corrections

The nested inlet vane corrections for all sizes are with the vanes fully open.

Due to additional losses at the fan inlet caused by the installation of variable inlet vanes, a slight correction above catalog RPM and BHP ratings is necessary to reach design performance.

These correction factors are as follows:
Fan Size

AF270 thru AF330 RPM x 1.05

BHP x 1.145

AF365 thru AF490 RPM x 1.035

BHP x 1.09

Example: AF365SW Class I is to operate at 16,852 CFM at 2" S.P.

Step 1: Through interpolation establish the design RPM and BHP of the unit from the performance tables. For this unit it would be 865 RPM and 8.01 BHP.

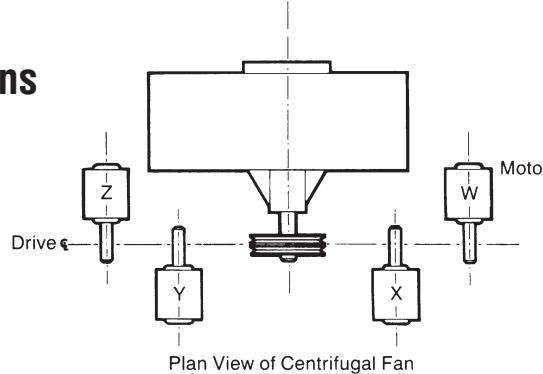
Step 2: Multiply design RPM and BHP by the following factors to determine the required RPM and BHP for a fan with nested type inlet vanes.

Example: $8.65 \text{ (design RPM)} \times 1.035 = 895 \text{ (corrected RPM)}$

$8.01 \text{ (design BHP)} \times 1.09 = 8.73 \text{ (corrected BHP)}$

Final Selection: AF365SW, Class I to deliver 16,852 CFM at 2" S.P. with nested inlet vanes requires 895 RPM and 8.73 BHP.

Caution: Check RPM and BHP to insure they do not exceed selected blower class or motor horsepower.



Motor Positions for Belt Drive Centrifugal Fans

Location of motor is determined by facing the drive side of fan and designating the motor position by letters W, X, Y, or Z as the case may be.

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 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 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.

Spark-proof construction available for SWSI units in arrangements 1, 2, 8, 9, and 10 only.

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POWERFOIL WHEELS

Powerfoil blowers using newly designed wheels with airfoil section blades have been developed to produce ultra-high total and static efficiencies over a broad performance range with extremely low sound generation. Hollow heavy gauge airfoil section blades, aerodynamically engineered, are die-formed in one piece and welded at the trailing edge. Blades then are welded in special jigs to a spun inlet section and a heavy duty backplate. Rugged cast iron hubs with bore, keyway, and concentricity machined to close tolerances, are riveted to the backplate by

Cross Section
Class 1 (All Sizes)
and Class 2



hydraulic riveters.

Metal gauges of all components are increased for higher construction classes and blades are internally reinforced as required (shown below). The Powerfoil wheel represents the ultimate in centrifugal wheel construction and is designed for optimum trouble-free performance and longevity.

SWSI Wheel



DWDI Wheel

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 so that the wheel will always stay in balance.

After complete blowers are assembled, they are all given a running-in inspection and again examined for balance by a portable electronic balancing unit. Inspectors add balance weights to the wheel if necessary to pass a very rigid inspection requirement.

Cross Section
Class 3 and Class 4
(All Sizes)



Wheel Weights With WR² In Lbs. Ft² For Wheel And Shaft

FAN SIZE	SWSI						DWDI					
	CLASS 1		CLASS 2		CLASS 3		CLASS 1		CLASS 2		CLASS 3	
	WEIGHT	WR ²	WEIGHT	WR^{2}	WEIGHT	WR^{2}	WEIGHT	WR^{2}	WEIGHT	WR^{2}	WEIGHT	WR^{2}
AF270	77	48	78	48	92	55	133	76	132	76	168	92
AF300	99	72	99	72	109	81	156	112	154	112	193	134
AF330	133	121	133	121	183	146	200	181	218	184	299	231
AF365	159	181	161	182	221	223	238	268	257	272	356	351
AF402	204	285	204	285	262	330	331	440	386	461	545	590
AF445	247	427	282	437	315	500	395	654	447	676	627	862
AF490	363	776	400	789	438	881	593	1131	587	1132	779	1381

FAN HORSEPOWER REQUIREMENTS

Two separate horsepower requirements must be considered when selecting the motor for a fan:

1. The brake horsepower (BHP) required to turn the fan at the proper speed (RPM) to deliver the design volume (CFM) at the necessary static pressure (SP).
2. The minimum motor horsepower required to bring the fan to the necessary RPM, by overcoming the inertia load of the wheel and shaft.

The inertia load of the wheel and shaft is measured as moment of inertia (WR²) in lbs. ft.² units. This value is used to determine the capability of a motor to bring the load up to the required speed before the motor overheats.

Fans selected in the lower static pressures, may specify motors, which are not large enough to start the fan without overheating the motor or the electrical system. Generally, smaller fans do not present a starting problem.

Whenever devices such as inlet vanes and outlet dampers are used and kept closed until the fan has reached operating speed, both motor heating and starting load are decreased.

Under certain operating conditions it may be possible to use motors smaller than the minimum horsepower recommendations shown on the performance pages, by checking with the motor supplier

CAUTION:

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

Motor manufacturers differ on the WR²F 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.

WR² referred to the motor is

$$\left(\frac{\text{RPM FAN}}{\text{RPM MOTOR}} \right)^2 \times \text{WR}^2 \text{ FAN X } 1.1$$

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

TEMPERATURE AND ALTITUDE CORRECTION DATA

Procedure for using correction factors

The density of air at 70 deg. F. and 29.92" barometric pressure (sea level) is .075lbs./cu.ft. and all fan performance tables shown herein have been developed at this standard density. When either temperature or barometric pressure deviates from the above, a change in density obviously results, thus changing fan BHP requirements (system capacity and pressure requirements being fixed by design conditions).

In order to use standard performance tables to determine correct BHP when installation environment involves either or both non-standard temperature and barometric pressure, the following density correction factor table has been developed through applicable physical laws.

Example: Use of correction factor table.

Requirement – A blower to deliver 13022 CFM at 1.5" S.P. at 350 deg. F. and 7000 ft. above sea level.

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

1. From table below correction factor for 350 deg. F. and 7000 ft. above sea level = 2.00.
2. 1.5" S.P. (design S.P.) x 2.00 = 3" S.P. (S.P. corrected to 70 degrees at sea level).
3. Select from performance table a blower to deliver 13022 CFM at 3" S.P. Best selection indicates a No. AF365 SW Powerfoil Blower at 834 RPM and 7.52 BHP.
4. Correct BHP by dividing 7.52 BHP by 2. This equals 3.76 BH (correct for 350 deg. F. at 7000 ft. altitude).

Recommended Selection: Peerless Blowers Powerfoil Size AF365SW Blower: capacity 13022 CFM, S.P. 1.5", temperature 350 deg. F. altitude 7000 ft., 834 RPM, 3.76 BHP.

Note: Caution should be exercised in selecting the motor sizes for operating fans handling high temperature air. If the operation of the system is such that there is a build-up period starting with lower temperature air, this will result in the fan requiring more horsepower during that period and the motor size should be selected for the most severe condition.

The following correction factor table is shaded to show **standard** table altitude (0 ft.) and temperature (70°). Where only one non-standard condition exists, read the other condition as standard.

Altitude And Temperature Correct ION 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	8000	8500	9000	10000
0°	0.87	.89	.91	.92	.94	.96	.98	.99	1.01	1.03	1.05	1.06	1.09	1.10	1.13	1.15	1.17	1.19	1.22	1.26
40°	0.94	.96	.98	1.00	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20	1.22	1.25	1.27	1.30	1.32	1.36
70°	1.00	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20	1.22	1.25	1.27	1.30	1.32	1.35	1.37	1.40	1.45
80°	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.19	1.21	1.23	1.26	1.28	1.30	1.33	1.36	1.38	1.41	1.43	1.48
100°	1.06	1.08	1.10	1.12	1.14	1.16	1.19	1.21	1.23	1.25	1.28	1.30	1.33	1.35	1.38	1.41	1.43	1.46	1.48	1.54
120°	1.09	1.12	1.14	1.16	1.18	1.20	1.23	1.25	1.28	1.30	1.32	1.35	1.38	1.40	1.43	1.46	1.48	1.51	1.53	1.58
140°	1.13	1.15	1.18	1.20	1.22	1.25	1.27	1.29	1.32	1.34	1.37	1.40	1.42	1.45	1.48	1.51	1.54	1.57	1.58	1.65
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	1.50	1.53	1.56	1.59	1.62	1.64	1.70
180°	1.21	1.23	1.26	1.28	1.30	1.33	1.36	1.38	1.41	1.43	1.46	1.49	1.52	1.55	1.58	1.61	1.64	1.67	1.70	1.75
200°	1.25	1.27	1.29	1.32	1.34	1.37	1.40	1.42	1.45	1.48	1.51	1.54	1.57	1.60	1.63	1.66	1.69	1.72	1.75	1.81
250°	1.34	1.36	1.39	1.42	1.45	1.47	1.50	1.53	1.56	1.59	1.62	1.65	1.68	1.71	1.74	1.78	1.82	1.85	1.88	1.94
300°	1.43	1.46	1.49	1.52	1.55	1.58	1.61	1.64	1.67	1.70	1.74	1.77	1.80	1.84	1.87	1.91	1.94	1.98	2.00	2.08
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	2.00	2.04	2.07	2.11	2.14	2.22
400°	1.62	1.65	1.69	1.72	1.75	1.79	1.82	1.85	1.89	1.93	1.96	2.00	2.04	2.08	2.12	2.16	2.20	2.25	2.27	2.35
450°	1.72	1.75	1.79	1.82	1.86	1.89	1.93	1.96	2.00	2.04	2.08	2.12	2.16	2.20	2.24	2.29	2.33	2.38	2.41	2.50
500°	1.81	1.85	1.88	1.92	1.96	1.99	2.03	2.07	2.11	2.15	2.19	2.23	2.28	2.32	2.36	2.41	2.46	2.51	2.54	2.62
550°	1.91	1.94	1.98	2.02	2.06	2.10	2.14	2.18	2.22	2.26	2.30	2.35	2.40	2.44	2.49	2.54	2.58	2.63	2.68	2.77
600°	2.00	2.04	2.08	2.12	2.16	2.20	2.24	2.29	2.33	2.38	2.42	2.47	2.50	2.56	2.61	2.66	2.71	2.77	2.80	2.90
650°	2.10	2.14	2.18	2.22	2.26	2.31	2.35	2.40	2.44	2.49	2.54	2.58	2.63	2.68	2.74	2.79	2.84	2.90	2.94	3.04
700°	2.19	2.23	2.27	2.32	2.36	2.41	2.46	2.50	2.55	2.60	2.65	2.70	2.75	2.80	2.86	2.91	2.97	3.03	3.06	3.18
750°	2.28	2.33	2.37	2.42	2.47	2.51	2.56	2.61	2.66	2.71	2.76	2.81	2.87	2.92	2.98	3.04	3.10	3.16	3.19	3.31
800°	2.38	2.43	2.48	2.52	2.57	2.62	2.66	2.72	2.76	2.81	2.86	2.90	2.98	3.02	3.10	3.14	3.21	3.26	3.33	3.45
850°	2.47	2.52	2.57	2.62	2.67	2.72	2.76	2.82	2.87	2.92	2.97	3.02	3.09	3.14	3.21	3.26	3.33	3.38	3.46	3.58
900°	2.57	2.62	2.67	2.72	2.76	2.83	2.88	2.93	2.98	3.03	3.08	3.14	3.21	3.26	3.34	3.39	3.47	3.52	3.60	3.73
950°	2.66	2.72	2.77	2.82	2.87	2.92	2.98	3.03	3.08	3.14	3.19	3.24	3.32	3.38	3.46	3.51	3.58	3.64	3.72	3.86
1000°	2.76	2.82	2.87	2.92	2.98	3.04	3.09	3.14	3.20	3.26	3.31	3.37	3.45	3.50	3.59	3.64	3.72	3.78	3.86	4.00

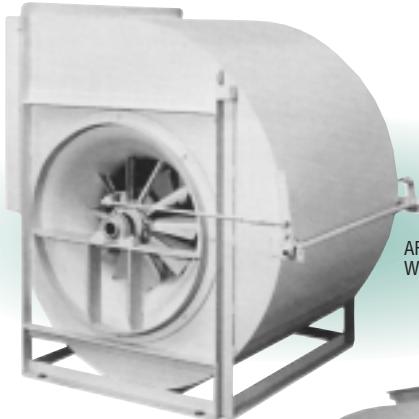
TEMPERATURE OPERATING LIMITS TEMPERATURE RPM DERATING FACTORS IN PERCENT:

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%	

PEERLESS BLOWERS POWERFOIL BLOWERS

Better Products by Design with Quality in Every Product

**Performance Engineered Fan Arrangements,
Options, Accessories and Special Features
to Fit Every Application**



AF300 DWDI ARR 3 Class 1
With Inlet Vanes and Linkage



AF330 SWSI ARR 8 Class 1



AF402 DWDI ARR 3 Class 4
With Inlet Vanes and Linkage,
Bolted Access Door & Inlet Screen

AF365 SWSI ARR 7 Class 1
With Bolted Access Door



AF445 SWSI ARR 3 Class 4
With Quick Opening Access Door



AF402 SWSI ARR 3 Class 1
With Inlet Vane, Linkage,
Inlet & Outlet Screens



AF445 SWSI ARR 9L Class 1
With Belt Guard



Construction Methods and Design Criteria
Are Subject to Change Without Notice.

For Assistance: **800/613-4766** or E-Mail: sales@peerlessblowers.com

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF270SW

TIP SPEED (FPM) = $7.069 \times \text{RPM}$

WHEEL DIAMETER = 27"

OUTLET $\frac{4.19 \text{ Sq. Ft. Inside}}{29'' \times 21\frac{1}{4}'' \text{ Outside}}$

INLET $\frac{4.430 \text{ Sq. Ft. Inside}}{29'' \text{ Dia. Outside}}$

MAX. HP = 3.15 $\frac{(\text{RPM})^3}{1000}$

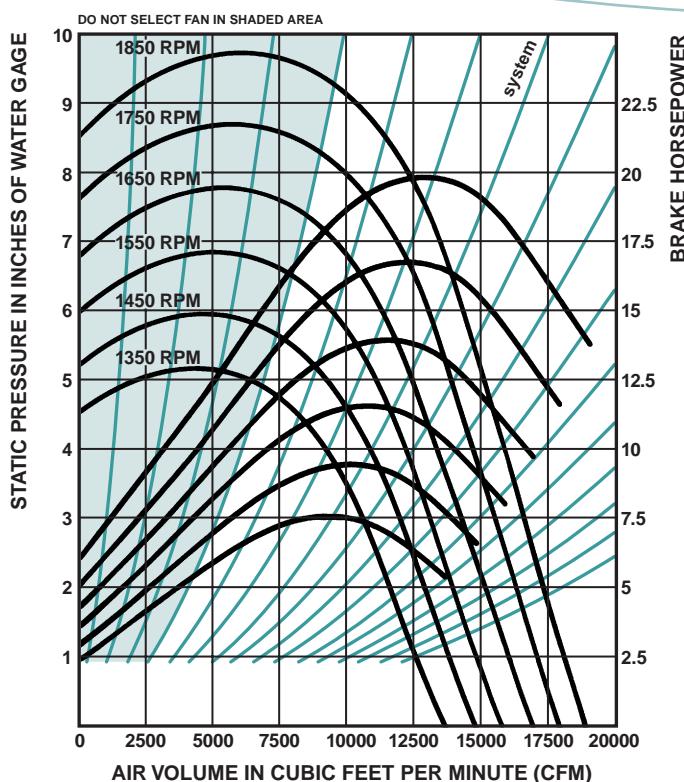
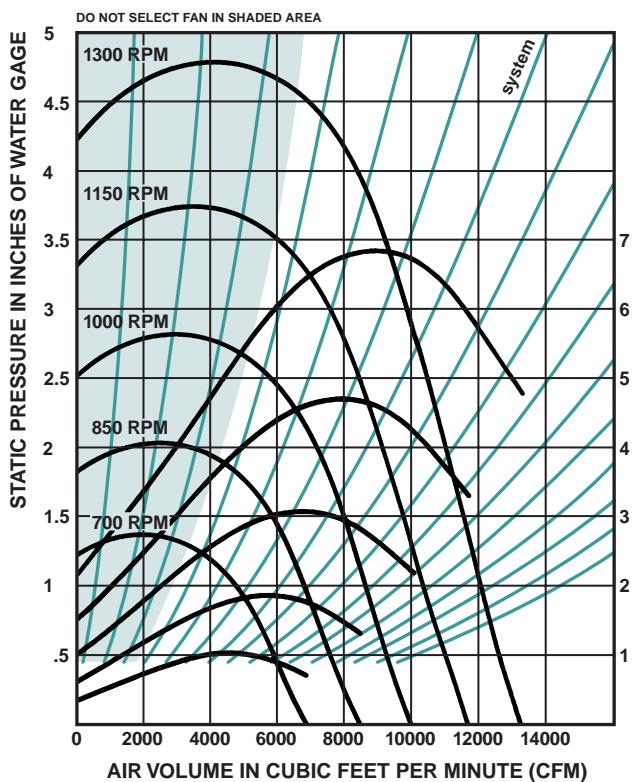
MAX. RPM
CL.1 1453
CL.2 1893
CL.3 2389

VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3352	800	412	0.21	445	0.28	478	0.34	511	0.41	544	0.49	578	0.58	613	0.67	—	—	—	—	—	—
3771	900	447	0.26	478	0.33	507	0.41	536	0.48	565	0.56	595	0.65	624	0.74	685	0.94	—	—	—	—
4190	1000	482	0.32	511	0.40	539	0.48	565	0.57	591	0.65	617	0.74	644	0.83	697	1.02	752	1.25	—	—
4609	1100	519	0.38	546	0.47	572	0.56	596	0.66	620	0.75	644	0.84	668	0.94	716	1.13	764	1.35	814	1.60
5028	1200	555	0.46	582	0.56	606	0.66	629	0.76	652	0.86	674	0.96	695	1.06	739	1.26	783	1.48	828	1.72
5447	1300	592	0.55	618	0.65	641	0.76	663	0.87	684	0.98	705	1.09	725	1.19	766	1.41	806	1.64	847	1.87
5866	1400	630	0.64	654	0.76	677	0.88	698	0.99	718	1.11	738	1.23	757	1.34	795	1.58	832	1.81	870	2.06
6285	1500	668	0.75	691	0.88	713	1.01	734	1.13	753	1.25	772	1.38	790	1.50	826	1.75	861	2.00	895	2.26
6704	1600	706	0.88	728	1.01	750	1.15	769	1.28	788	1.41	806	1.54	824	1.68	858	1.94	891	2.21	924	2.48
7123	1700	745	1.02	766	1.16	786	1.30	806	1.44	824	1.59	841	1.73	858	1.87	891	2.15	922	2.43	954	2.72
7542	1800	784	1.18	804	1.32	823	1.47	842	1.62	860	1.77	877	1.92	893	2.07	925	2.37	955	2.67	985	2.97
7961	1900	823	1.35	842	1.50	861	1.66	879	1.82	896	1.98	913	2.14	929	2.29	959	2.61	989	2.92	1017	3.24
8380	2000	862	1.54	880	1.70	898	1.86	916	2.03	933	2.20	949	2.36	965	2.53	994	2.86	1023	3.19	1050	3.52
9218	2200	940	1.97	958	2.15	975	2.33	991	2.51	1007	2.69	1022	2.88	1037	3.06	1066	3.43	1093	3.79	1118	4.16
10056	2400	1019	2.48	1036	2.68	1052	2.88	1067	3.07	1082	3.27	1096	3.47	1110	3.67	1138	4.07	1164	4.47	1188	4.87
10894	2600	1098	3.07	1115	3.30	1130	3.51	1144	3.72	1157	3.93	1171	4.14	1185	4.36	1211	4.80	1236	5.23	1260	5.66
11732	2800	1178	3.77	1193	4.00	1208	4.24	1221	4.47	1234	4.69	1247	4.92	1260	5.15	1285	5.62	1309	6.09	1332	6.55
12570	3000	1258	4.56	1272	4.81	1286	5.07	1299	5.32	1312	5.56	1324	5.80	1336	6.04	1359	6.54	1382	7.04	1405	7.54
13408	3200	1338	5.47	1351	5.72	1365	6.00	1377	6.27	1390	6.53	1401	6.79	1412	7.04	1435	7.57	1457	8.10	1478	8.63
14246	3400	1419	6.48	1431	6.76	1443	7.04	1456	7.34	1468	7.62	1479	7.90	1490	8.17	1511	8.71	1532	9.27	1552	9.84

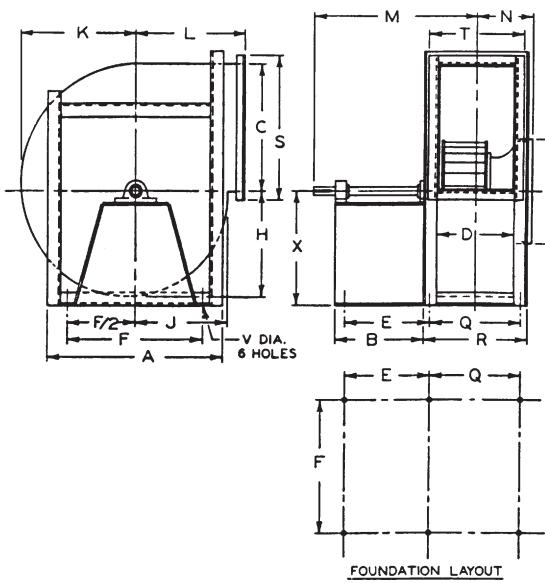
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP																
5447	1300	888	2.13	971	2.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5866	1400	907	2.31	984	2.87	1062	3.51	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6285	1500	930	2.52	1001	3.07	1073	3.70	1146	4.41	—	—	—	—	—	—	—	—	—	—	—	—
6704	1600	956	2.75	1022	3.31	1088	3.93	1156	4.61	1225	5.38	—	—	—	—	—	—	—	—	—	—
7123	1700	984	3.00	1046	3.58	1108	4.20	1171	4.87	1235	5.61	1300	6.42	—	—	—	—	—	—	—	—
7542	1800	1014	3.27	1072	3.88	1131	4.51	1189	5.17	1249	5.89	1309	6.68	1371	7.54	1433	8.47	—	—	—	—
7961	1900	1045	3.55	1100	4.19	1155	4.84	1211	5.52	1267	6.23	1323	7.00	1380	7.83	1438	8.74	1497	9.71	—	—
8380	2000	1077	3.86	1130	4.53	1182	5.20	1235	5.89	1287	6.61	1341	7.37	1394	8.19	1449	9.07	1504	10.01	1559	11.01
9218	2200	1144	4.52	1193	5.25	1241	5.99	1288	6.73	1336	7.48	1384	8.26	1432	9.06	1480	9.91	1529	10.81	1578	11.76
10056	2400	1212	5.26	1258	6.06	1303	6.86	1347	7.66	1391	8.47	1435	9.28	1478	10.11	1522	10.97	1566	11.85	1610	12.78
10894	2600	1283	6.10	1327	6.96	1369	7.82	1410	8.68	1451	9.55	1491	10.42	1531	11.30	1572	12.19	1612	13.10	1652	14.03
11732	2800	1354	7.02	1396	7.95	1437	8.87	1476	9.80	1514	10.74	1552	11.67	1589	12.61	1627	13.55	1664	14.50	1702	15.46
12570	3000	1426	8.04	1467	9.04	1506	10.03	1543	11.03	1580	12.02	1616	13.02	1651	14.02	1686	15.02	1721	16.03	1756	17.04
13408	3200	1499	9.17	1539	10.24	1576	11.30	1613	12.36	1648	13.42	1682	14.48	1715	15.55	1749	16.61	1782	17.68	1814	18.75
14246	3400	1573	10.41	1611	11.55	1648	12.68	1683	13.81	1717	14.93	1749	16.06	1782	17.19	1813	18.32	1845	19.45	1876	20.59
15084	3600	1647	11.78	1684	12.98	1720	14.19	1754	15.38	1787	16.57	1819	17.76	1856	18.96	1880	20.15	1910	21.35	1940	22.55
15922	3800	1721	13.27	1758	14.54	1792	15.82	1826	17.08	1858	18.34	1889	19.60	1919	20.86	1948	22.12	1977	23.38	2006	24.64
16760	4000	1797	14.90	1832	16.24	1866	17.58	1898	18.92	1929	20.25	1960	21.58	1989	22.90	2017	24.22	2046	25.55	2073	26.87
17598	4200	1873	16.68	1906	18.07	1939	19.48	1971	20.89	2001	22.29	2031	23.69	2060	25.08	2088	26.47	2115	27.86	2142	29.25
18436	4400	1949	18.62	1982	20.07	2013	21.54	2044	23.01	2074	24.49	2103	25.96	2131	27.42	2158	28.88	2185	30.33	2211	31.79

VOL. CFM	OUTLET VEL. FPM	7 S.P.		7.5 S.P.		8 S.P.	
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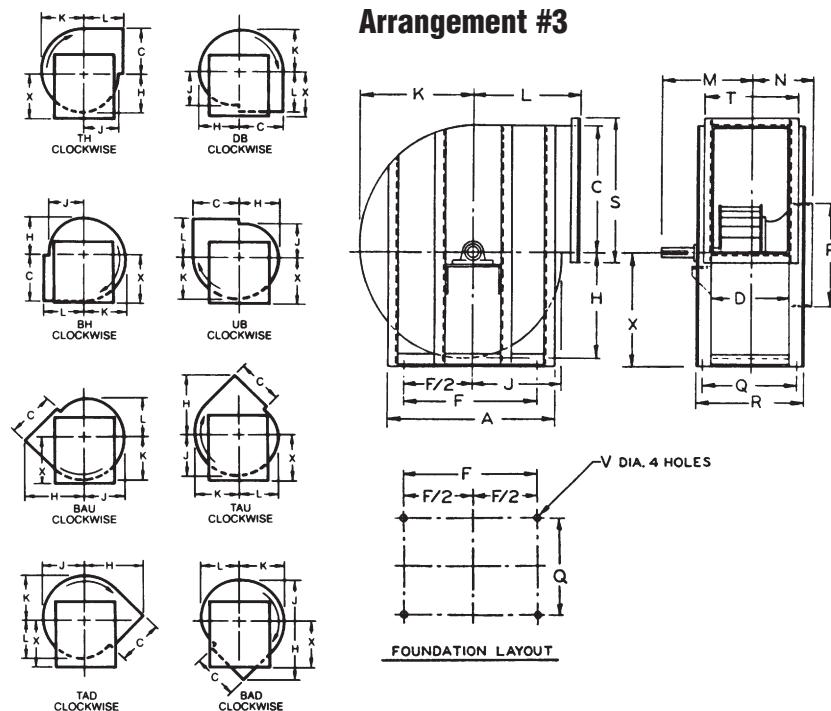
PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #1



Arrangement #3



Arrangement #1 & #3 — SWSI — Class I & II

Model No.	Shaft Ext. Dia. Whe. Dia.	Shaft Ext. Dia. Keyway		Shaft Ext. Dia. Keyway		TH, DB, BH, UB Straight Discharge						TH, DB, BH, UB Angular Discharge						Class I		Class II								Approx. Weight Lbs. Class I		Approx. Weight Lbs. Class II												
		Class I		Class II		A	B	C	D	E	F	H	J	K	L	H	J	K	L	M	M	N	P	Q	R	S	T	U	V	W	X	X	TH	DB	BH	UB	BAU	TAU	TAD	BAD	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
		1 1/16	3/8 x 3/16 x 5	1 1/16	3/8 x 3/16 x 5	38 1/2	21	29	21 1/4	21	28 1/2	22 1/8	18 1/2	25 1/4	21 5/8	35 5/8	23 9/8	27 3/8	20	39 5/8	39 5/8	12 9/8	29	23 1/2	33	25 1/4	—	7/8	—	23 5/8	21 5/8	32	26 1/4	28 1/8	25 1/8	21 1/2	25 1/8	765	840			
AF270SW	27	1 1/16	3/8 x 3/16 x 5	1 1/16	3/8 x 3/16 x 5	38 1/2	—	29	21 1/4	—	28 1/2	22 1/8	18 1/2	25 1/4	21 5/8	35 5/8	23 9/8	27 3/8	20	19 7/8	20 5/8	15 5/8	29	23 1/2	33	25 1/4	—	7/8	—	23 5/8	21 5/8	32	26 1/4	28 1/8	25 1/8	21 1/2	25 1/8	585	640			
AF270SW	27	1 1/16	3/8 x 3/16 x 6	1 1/16	3/8 x 3/16 x 6	38 1/2	—	29	21 1/4	—	28 1/2	22 1/8	18 1/2	25 1/4	21 5/8	35 5/8	23 9/8	27 3/8	20	19 7/8	20 5/8	15 5/8	29	23 1/2	33	25 1/4	—	7/8	—	23 5/8	21 5/8	32	26 1/4	28 1/8	25 1/8	21 1/2	25 1/8	585	640			

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF300SW

TIP SPEED (FPM) = 7.854 x RPM

WHEEL DIAMETER = 30"

OUTLET
5.17 Sq. Ft. Inside
32 1/4" x 23 3/8" Outside

MAX. HP = 5.33
 $(\frac{\text{RPM}}{1000})^3$

INLET
5.469 Sq. Ft. Inside
32 1/4" Dia. Outside

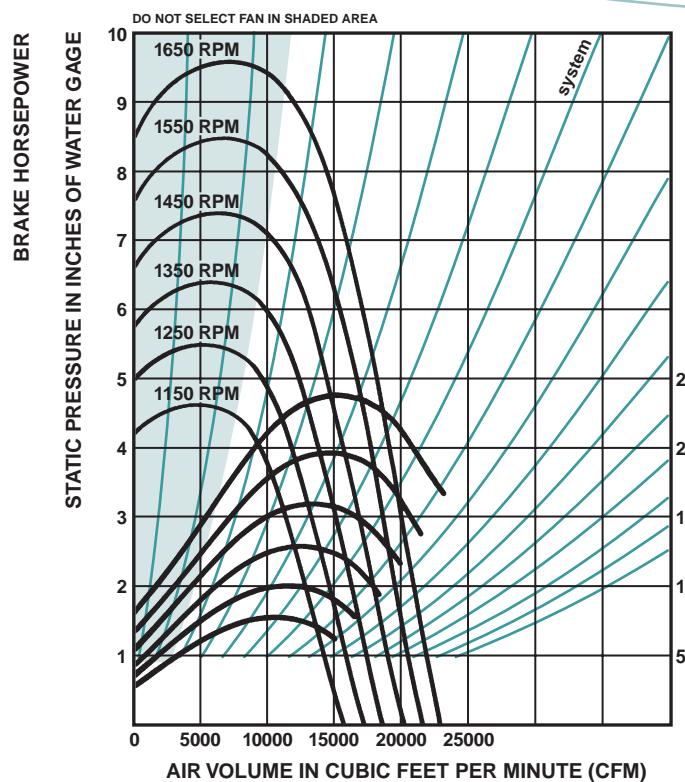
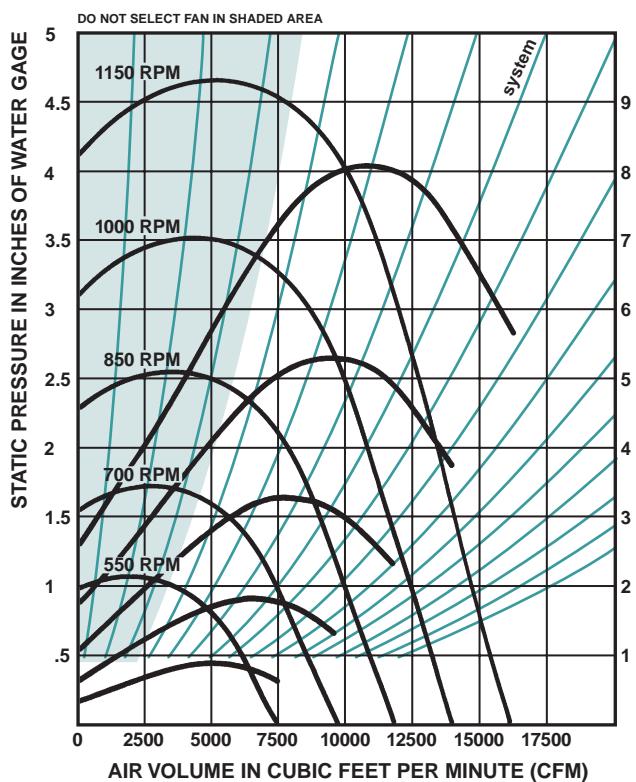
MAX. RPM
CL.1 1308
CL.2 1703
CL.3 2150

VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP																		
4136	800	371	0.26	401	0.34	430	0.42	460	0.51	490	0.61	520	0.71	551	0.83	—	—	—	—	—	—
4653	900	402	0.32	430	0.41	456	0.50	483	0.60	509	0.70	535	0.80	562	0.91	617	1.16	—	—	—	—
5170	1000	434	0.39	460	0.49	485	0.60	508	0.70	532	0.80	556	0.91	579	1.02	627	1.26	677	1.54	—	—
5687	1100	467	0.47	492	0.59	515	0.70	537	0.81	558	0.92	580	1.04	601	1.15	644	1.40	688	1.67	733	1.97
6204	1200	500	0.57	524	0.69	546	0.81	566	0.94	586	1.06	606	1.18	626	1.31	665	1.56	705	1.83	745	2.12
6721	1300	533	0.67	556	0.81	577	0.94	597	1.07	616	1.21	635	1.34	653	1.47	689	1.74	725	2.02	762	2.31
7238	1400	567	0.79	589	0.94	609	1.08	628	1.23	646	1.37	664	1.51	681	1.66	715	1.95	749	2.24	783	2.54
7755	1500	601	0.93	622	1.09	642	1.24	660	1.40	678	1.55	695	1.70	711	1.86	743	2.16	775	2.47	806	2.79
8272	1600	636	1.09	656	1.25	675	1.42	692	1.58	709	1.74	726	1.91	741	2.07	772	2.40	802	2.73	831	3.06
8789	1700	670	1.26	689	1.43	708	1.61	725	1.78	742	1.96	757	2.13	772	2.30	802	2.65	830	3.00	858	3.35
9306	1800	705	1.45	723	1.63	741	1.82	758	2.00	774	2.19	789	2.37	804	2.56	832	2.93	860	3.29	886	3.66
9823	1900	740	1.67	758	1.85	775	2.05	791	2.24	807	2.44	822	2.64	836	2.83	863	3.22	890	3.61	915	4.00
10340	2000	776	1.90	792	2.10	809	2.30	824	2.51	839	2.71	854	2.92	868	3.12	895	3.53	921	3.94	945	4.35
11374	2200	846	2.43	862	2.66	877	2.87	892	3.10	906	3.32	920	3.55	933	3.78	959	4.23	983	4.68	1007	5.13
12408	2400	917	3.06	933	3.31	947	3.55	960	3.79	973	4.03	987	4.28	999	4.53	1024	5.02	1047	5.52	1070	6.01
13442	2600	988	3.79	1003	4.07	1017	4.34	1029	4.59	1042	4.85	1054	5.12	1066	5.38	1090	5.92	1112	6.46	1134	6.99
14476	2800	1060	4.65	1074	4.94	1087	5.24	1099	5.51	1111	5.79	1122	6.07	1134	6.36	1156	6.93	1178	7.51	1199	8.09
15510	3000	1132	5.63	1145	5.94	1157	6.26	1169	6.56	1180	6.86	1191	7.16	1202	7.46	1223	8.07	1244	8.69	1264	9.31
16544	3200	1205	6.75	1216	7.07	1228	7.41	1240	7.74	1251	8.06	1261	8.38	1271	8.70	1291	9.34	1311	10.00	1330	10.66
17578	3400	1277	8.00	1288	8.34	1299	8.69	1310	9.06	1321	9.41	1331	9.75	1341	10.08	1360	10.76	1379	11.45	1397	12.15

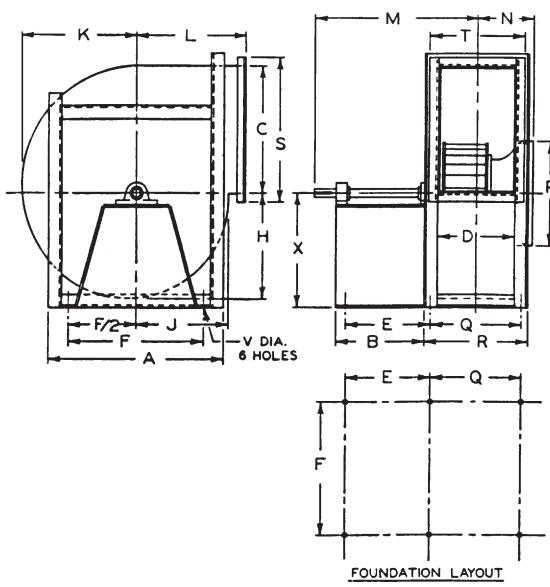
VOL. CFM	VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6721	1300	799	2.63	874	3.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7238	1400	817	2.85	885	3.54	956	4.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7755	1500	837	3.11	901	3.80	965	4.57	1032	5.44	—	—	—	—	—	—	—	—	—	—	—	—
8272	1600	861	3.40	920	4.09	980	4.85	1040	5.69	1103	6.64	—	—	—	—	—	—	—	—	—	—
8789	1700	886	3.71	941	4.42	997	5.18	1054	6.01	1111	6.92	1170	7.93	—	—	—	—	—	—	—	—
9306	1800	913	4.04	965	4.79	1017	5.56	1070	6.39	1124	7.28	1178	8.25	1233	9.31	1290	10.46	—	—	—	—
9823	1900	941	4.39	990	5.18	1040	5.98	1090	6.81	1140	7.69	1191	8.64	1242	9.67	1295	10.79	1348	11.98	—	—
10340	2000	969	4.76	1017	5.59	1064	6.42	1111	7.27	1159	8.16	1206	9.10	1255	10.11	1304	11.19	1353	12.35	1404	13.59
11374	2200	1029	5.58	1073	6.48	1117	7.39	1159	8.31	1202	9.24	1245	10.19	1288	11.19	1332	12.24	1376	13.34	1420	14.52
12408	2400	1091	6.50	1133	7.48	1173	8.47	1212	9.46	1252	10.45	1291	11.46	1330	12.49	1370	13.54	1409	14.64	1449	15.78
13442	2600	1154	7.52	1194	8.59	1232	9.65	1269	10.72	1306	11.79	1342	12.87	1328	13.95	1415	15.05	1451	16.17	1487	17.32
14476	2800	1219	8.67	1257	9.81	1293	10.95	1328	12.10	1363	13.25	1397	14.41	1430	15.57	1464	16.73	1498	17.90	1531	19.09
15510	3000	1284	9.93	1320	11.16	1355	12.39	1389	13.61	1422	14.84	1454	16.07	1486	17.31	1518	18.55	1549	19.79	1580	21.04
16544	3200	1349	11.33	1385	12.64	1419	13.95	1451	15.26	1483	16.57	1514	17.88	1544	19.19	1574	20.51	1603	21.83	1633	23.15
17578	3400	1415	12.86	1450	14.26	1483	15.66	1515	17.05	1545	18.44	1575	19.83	1604	21.22	1632	22.62	1660	24.02	1688	25.42
18612	3600	1482	14.54	1516	16.03	1548	17.51	1579	18.99	1608	20.46	1637	21.93	1665	23.40	1692	24.88	1719	26.35	1746	27.84
19646	3800	1549	16.38	1582	17.95	1613	19.53	1643	21.09	1672	22.65	1700	24.20	1727	25.75	1753	27.30	1780	28.86	1805	30.42
20680	4000	1617	18.40	1649	20.04	1679	21.70	1708	23.35	1736	25.00	1764	26.64	1790	28.27	1816	29.90	1841	31.54	1866	33.17
21714	4200	1685	20.59	1716	22.31	1745	24.05	1774	25.79	1801	27.52	1828	29.25	1854	30.97	1879	32.68	1903	34.40	1928	36.11
22748	4400	1754	22.99	1783	24.77	1812	26.59	1840	28.41	1867	30.23	1893	32.05	1918	33.85	1943	35.65	1967	37.45	1990	39.24

VOL. CFM	OUTLET VEL. FPM	7 S.P.		7.5 S.P.		8 S.P.		8.5 S.P.		9 S.P.		10 S.P.		1
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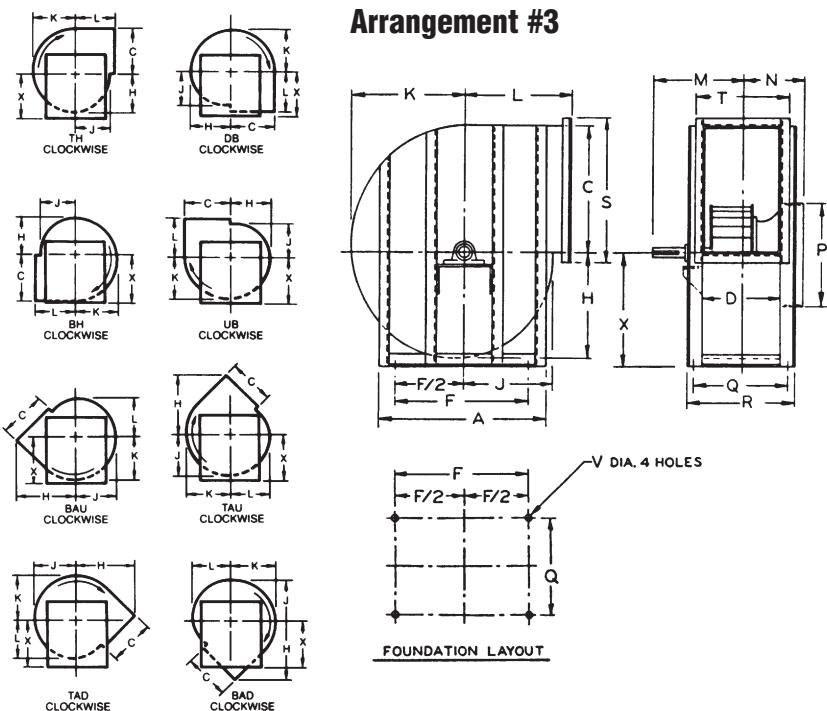
PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #1



Arrangement #3



Arrangement #1 & #3 — SWSI — Class I & II

Model No.	Shaft Ext. Dia.	Keyway	Shaft Ext. Dia. Keyway		TH, DB, BH, UB Straight Discharge						TH, DB, BH, UB Angular Discharge						Class I	Class II									Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II										
			Class I	Class II	A	B	C	D	E	F	H	J	K	L	H	J	K	L	M	M	N	P	Q	R	S	T	U	V	W	X	X							
AF300SW	30	11 1/16	3/8 x 3/16 x 5	11 1/16	1 1/2 x 1/4 x 5	41 1/4	23	32 1/4	23 1/8	23	31 1/4	24 5/8	20 1/2	28 1/8	23 1/4	39 3/8	26 1/8	30 1/2	22 1/4	42 5/8	42 5/8	13 1/4	32 1/4	25 5/8	27 3/8	—	7 1/8	—	26 1/8	23 1/4	35 1/4	29 5/8	32	27 1/8	23 1/4	27 1/8	930	1020
AF300SW	30	11 1/16	3/8 x 3/16 x 6	11 1/16	3/8 x 3/16 x 6	41 1/4	—	32 1/4	23 1/8	—	31 1/4	24 5/8	20 1/2	28 1/8	23 1/4	39 3/8	26 1/8	30 1/2	22 1/4	21 1/4	22	16 1/8	32 1/4	25 5/8	27 3/8	—	7 1/8	—	26 1/8	23 1/4	35 1/4	29 5/8	32	27 1/8	23 1/4	27 1/8	705	780

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF330SW

TIP SPEED (FPM) = 8.639 x RPM

WHEEL DIAMETER = 33"

OUTLET $\frac{6.26 \text{ Sq. Ft. Inside}}{35\frac{3}{8}'' \times 25\frac{7}{8}'' \text{ Outside}}$

INLET $\frac{6.618 \text{ Sq. Ft. Inside}}{35\frac{3}{8}'' \text{ Dia. Outside}}$

MAX. HP = 8.59 $\frac{(\text{RPM})^3}{1000}$

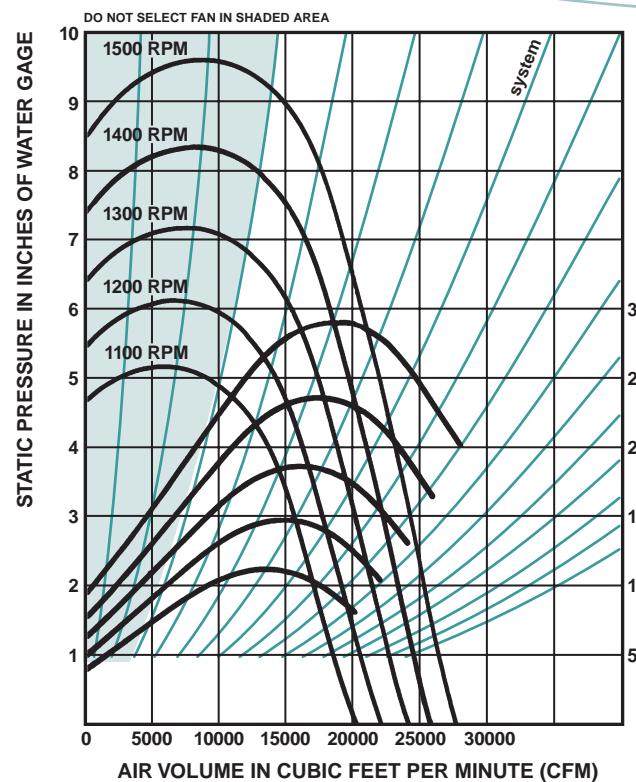
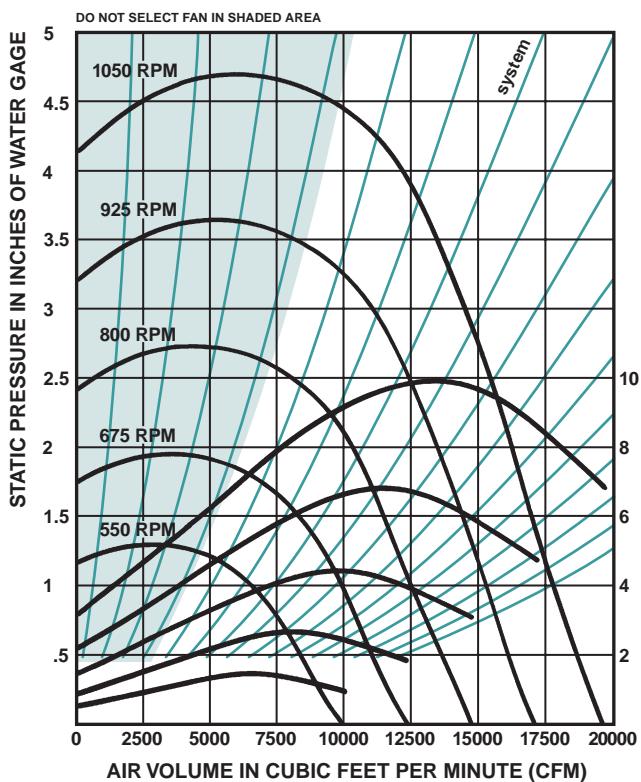
MAX. RPM
CL.1 1189
CL.2 1548
CL.3 1955

VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5008	800	337	0.31	364	0.41	391	0.51	418	0.62	445	0.73	473	0.86	501	1.00	—	—	—	—	—	—
5634	900	365	0.39	391	0.50	415	0.61	439	0.72	462	0.84	487	0.97	511	1.10	561	1.41	—	—	—	—
6260	1000	395	0.47	418	0.60	441	0.72	462	0.85	484	0.97	505	1.10	527	1.23	570	1.53	615	1.87	—	—
6886	1100	424	0.57	447	0.71	468	0.84	488	0.98	508	1.12	527	1.26	546	1.40	586	1.69	625	2.02	666	2.38
7512	1200	454	0.68	476	0.83	496	0.98	515	1.13	533	1.28	551	1.43	569	1.58	605	1.89	641	2.21	677	2.57
8138	1300	485	0.81	506	0.98	525	1.14	543	1.30	560	1.46	577	1.62	593	1.78	626	2.11	659	2.45	693	2.80
8764	1400	515	0.96	535	1.14	554	1.31	571	1.48	588	1.66	604	1.83	619	2.00	650	2.35	681	2.71	711	3.07
9390	1500	546	1.13	566	1.31	583	1.50	600	1.69	616	1.87	631	2.06	646	2.24	675	2.62	704	2.99	733	3.37
10016	1600	578	1.32	596	1.51	613	1.71	630	1.91	645	2.11	660	2.31	674	2.51	702	2.90	729	3.30	756	3.70
10642	1700	609	1.53	627	1.73	643	1.94	659	2.16	674	2.37	688	2.58	702	2.79	729	3.21	755	3.63	780	4.06
11268	1800	641	1.76	658	1.98	674	2.20	689	2.42	704	2.65	718	2.87	731	3.09	757	3.54	781	3.99	806	4.43
11894	1900	673	2.02	689	2.24	704	2.48	719	2.72	733	2.95	747	3.19	760	3.43	785	3.89	809	4.36	832	4.84
12520	2000	705	2.30	720	2.54	735	2.78	749	3.03	763	3.28	776	3.53	789	3.78	814	4.28	837	4.77	859	5.27
13772	2200	769	2.94	784	3.21	797	3.48	811	3.75	824	4.02	836	4.30	849	4.57	872	5.12	894	5.66	915	6.21
15024	2400	834	3.70	848	4.01	861	4.30	873	4.58	885	4.88	897	5.18	909	5.48	931	6.08	952	6.68	972	7.27
16276	2600	898	4.59	912	4.93	924	5.25	936	5.56	947	5.87	958	6.19	969	6.51	991	7.17	1011	7.82	1031	8.46
17528	2800	964	5.63	976	5.98	988	6.34	999	6.67	1010	7.01	1020	7.35	1031	7.69	1051	8.39	1071	9.09	1090	9.79
18780	3000	1029	6.82	1041	7.18	1052	7.57	1063	7.94	1073	8.30	1083	8.66	1093	9.02	1112	9.76	1131	10.51	1149	11.27
20032	3200	1095	8.17	1105	8.55	1116	8.96	1127	9.37	1137	9.76	1146	10.14	1156	10.52	1174	11.30	1192	12.10	1209	12.90
21284	3400	1161	9.68	1171	10.10	1181	10.52	1191	10.96	1201	11.39	1210	11.80	1219	12.20	1236	13.02	1253	13.85	1270	14.70

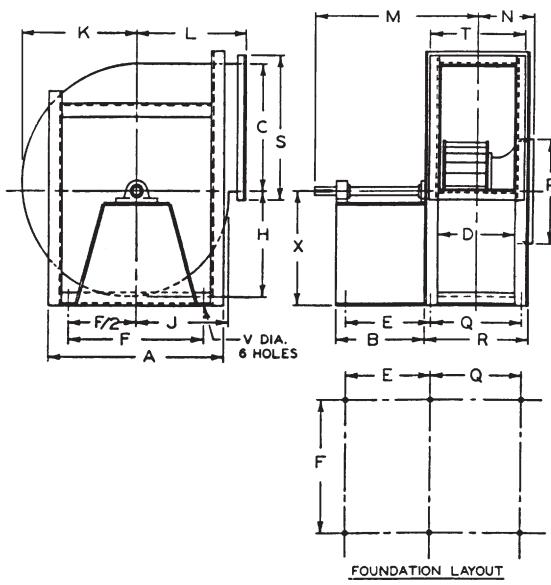
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8138	1300	726	3.18	795	4.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8764	1400	742	3.45	805	4.29	869	5.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9390	1500	761	3.76	819	4.59	878	5.52	938	6.58	—	—	—	—	—	—	—	—	—	—	—	—
10016	1600	782	4.11	836	4.95	891	5.87	946	6.89	1002	8.03	—	—	—	—	—	—	—	—	—	—
10642	1700	805	4.48	856	5.35	907	6.27	958	7.27	1010	8.38	1063	9.59	—	—	—	—	—	—	—	—
11268	1800	830	4.88	877	5.79	925	6.73	973	7.73	1022	8.81	1071	9.98	1121	11.27	1173	12.66	—	—	—	—
11894	1900	855	5.31	900	6.26	945	7.23	991	8.24	1036	9.31	1082	10.46	1129	11.70	1177	13.05	1225	14.50	—	—
12520	2000	881	5.76	925	6.76	967	7.77	1010	8.80	1053	9.88	1097	11.02	1141	12.23	1185	13.54	1230	14.95	1276	16.45
13772	2200	936	6.75	976	7.85	1015	8.94	1054	10.05	1093	11.18	1132	12.33	1171	13.54	1211	14.81	1251	16.15	1291	17.57
15024	2400	992	7.86	1030	9.05	1066	10.25	1102	11.44	1138	12.65	1174	13.87	1209	15.11	1245	16.38	1281	17.71	1318	19.09
16276	2600	1049	9.10	1085	10.39	1120	11.68	1154	12.97	1187	14.27	1220	15.57	1253	16.88	1286	18.21	1319	19.57	1352	20.96
17528	2800	1108	10.49	1142	11.87	1175	13.26	1207	14.64	1239	16.04	1270	17.43	1300	18.83	1331	20.24	1362	21.66	1392	23.10
18780	3000	1167	12.02	1200	13.50	1232	14.99	1263	16.47	1293	17.96	1322	19.45	1351	20.95	1380	22.44	1408	23.95	1437	25.46
20032	3200	1226	13.70	1259	15.30	1290	16.88	1319	18.46	1348	20.04	1376	21.63	1403	23.22	1431	24.82	1458	26.41	1485	28.02
21284	3400	1287	15.56	1318	17.26	1348	18.95	1377	20.63	1405	22.31	1431	23.99	1458	25.68	1484	27.37	1509	29.06	1535	30.75
22536	3600	1347	17.59	1378	19.40	1407	21.19	1435	22.98	1462	24.76	1488	26.54	1513	28.32	1538	30.10	1563	31.89	1587	33.68
23788	3800	1408	19.82	1438	21.72	1467	23.63	1494	25.52	1520	27.40	1545	29.28	1570	31.16	1594	33.04	1618	34.92	1641	36.81
25040	4000	1470	22.26	1499	24.25	1526	26.26	1553	28.26	1579	30.25	1603	32.23	1627	34.21	1651	36.18	1674	38.16	1696	40.14
26292	4200	1532	24.92	1560	27.00	1587	29.10	1613	31.21	1638	33.30	1662	35.39	1685	37.47	1708	39.55	1730	41.62	1752	43.70
27544	4400	1595	27.82	1621	29.97	1647	32.17	1673	34.38	1697	36.58	1721	38.77	1744	40.96	1766	43.14	1788	45.31	1809	47.78

VOL. CFM	VEL. FPM	7 S.P.		7.5 S.P.		8 S.P.		8.5 S.P.		9 S.P.		10 S.P.		11 S.P.
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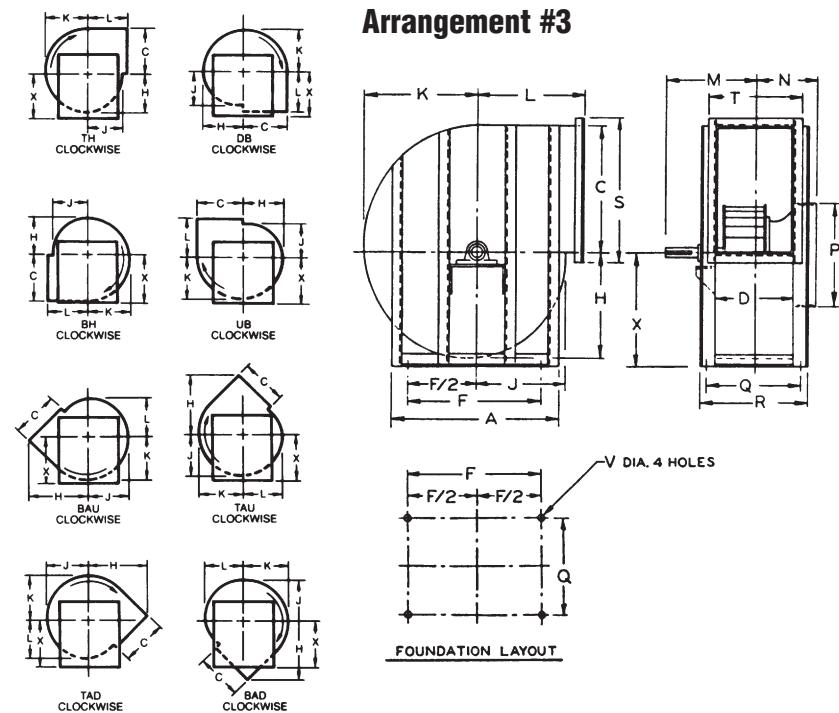
PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #1



Arrangement #3



Arrangement #1 & #3 — SWSI — Class I & II

Model No.	Shaft Ext. Dia.	Keyway	Shaft Ext. Dia.	Keyway	TH, DB, BH, UB Straight Discharge						TH, DB, BH, UB Angular Discharge						Class I	Class II	M	N	P	Q	R	S	T	U	V	W	TH		DB		BH		UB		BAU		TAU		TAD		BAD		Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
					A	B	C	D	E	F	H	J	K	L	H	J	K	L	M	M	N	P	Q	R	S	T	U	V	W	X	X	TH	DB	BH	UB	BAU	TAU	TAD	BAD							
AF330SW	33	11 1/16	3/8 x 3/16 x 5	11 1/16	1 1/2 x 1/4 x 5	45 7/8	23	35 1/8	25 1/8	23	34 7/8	27 1/8	22 1/2	30 1/8	25 3/4	43	28 7/8	33 1/2	24 1/8	44 1/8	44 1/8	15	35 1/8	28 5/8	30 7/8	40 1/8	30 7/8	—	7/8	—	29 1/8	25 1/8	38 1/8	32 1/2	35 1/2	30 7/8	26 1/8	30 7/8	1040	1140						
AF330SW	33	11 1/16	3/8 x 3/16 x 6	11 1/16	3/8 x 3/16 x 6	45 7/8	—	35 1/8	25 1/8	—	34 7/8	27 1/8	22 1/2	30 1/8	25 3/4	43	28 7/8	33 1/2	24 1/8	22 1/2	23 1/4	18 1/8	35 1/8	28 5/8	30 7/8	40 1/8	30 7/8	—	7/8	—	29 1/8	25 1/8	38 1/8	32 1/2	35 1/2	30 7/8	26 1/8	30 7/8	880	880						

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF365SW

TIP SPEED (FPM) = 9.566 x RPM

WHEEL DIAMETER = 36½"

OUTLET
7.66 Sq. Ft. Inside
39¼" x 28½" Outside

MAX. HP = 13.01
 $\frac{(\text{RPM})^3}{1000}$ ³

INLET
8.11 Sq. Ft. Inside
39" Dia. Outside

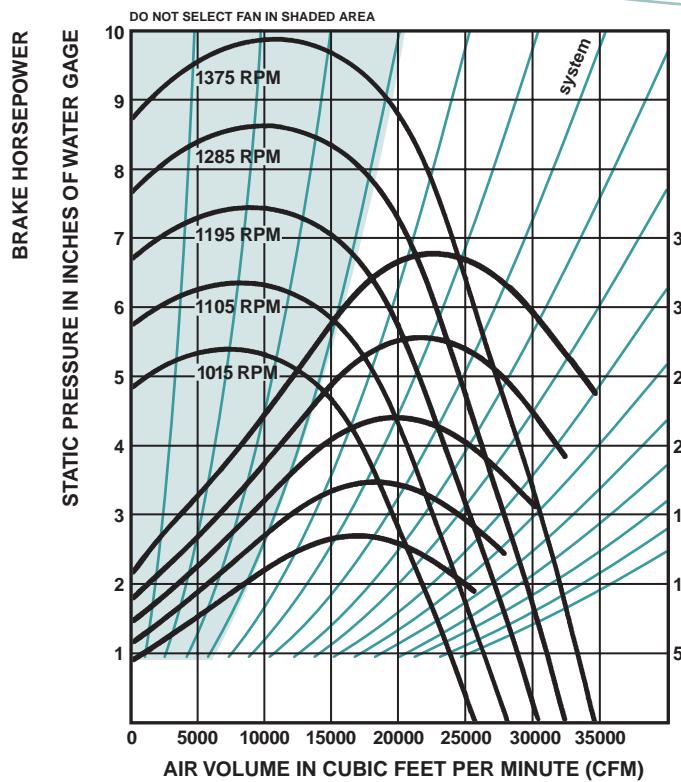
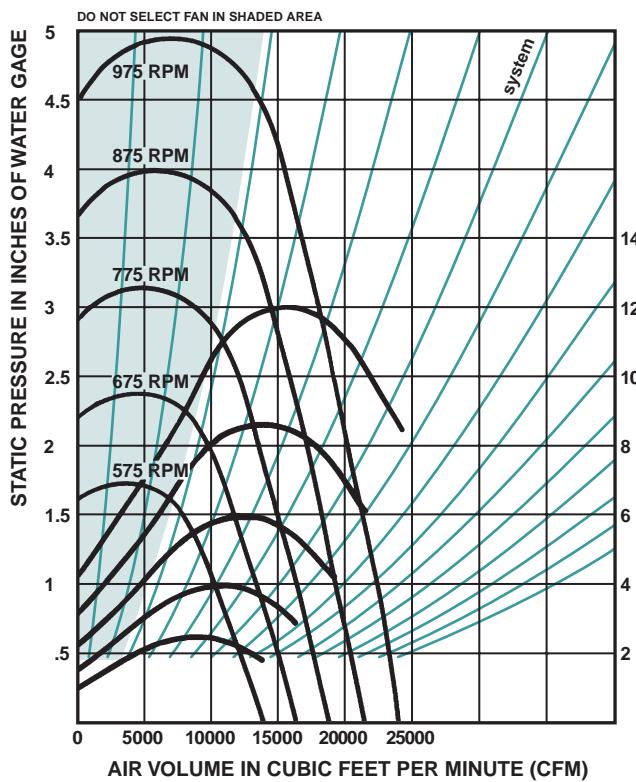
MAX. RPM
CL.1 1098
CL.2 1431
CL.3 1802

VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6128	800	311	0.37	338	0.49	362	0.62	385	0.74	408	0.88	—	—	—	—	—	—	—	—	—	—
6894	900	336	0.45	362	0.59	385	0.73	406	0.87	427	1.01	447	1.16	467	1.31	485	1.48	522	1.82	—	—
7660	1000	362	0.54	386	0.70	408	0.86	428	1.01	448	1.16	466	1.32	485	1.48	522	1.82	—	—	—	—
8426	1100	388	0.65	411	0.83	432	1.00	452	1.17	470	1.34	488	1.51	505	1.68	539	2.03	572	2.41	—	—
9192	1200	415	0.78	436	0.96	457	1.15	476	1.34	494	1.53	511	1.71	527	1.90	558	2.27	589	2.65	620	3.06
9958	1300	442	0.93	462	1.12	482	1.32	501	1.53	518	1.74	534	1.94	550	2.14	580	2.53	609	2.93	637	3.36
10724	1400	470	1.10	489	1.29	508	1.51	526	1.73	543	1.96	559	2.18	574	2.40	603	2.82	630	3.25	657	3.68
11490	1500	499	1.29	516	1.49	534	1.72	551	1.95	567	2.19	583	2.43	598	2.67	626	3.13	652	3.59	678	4.05
12256	1600	527	1.50	544	1.72	560	1.95	577	2.20	593	2.45	608	2.71	622	2.96	650	3.47	676	3.96	700	4.44
13022	1700	556	1.74	572	1.97	587	2.21	603	2.47	618	2.73	633	3.00	647	3.27	674	3.81	699	4.34	723	4.86
13788	1800	585	2.01	600	2.26	615	2.50	629	2.76	644	3.04	658	3.32	672	3.61	699	4.18	723	4.75	747	5.31
14554	1900	614	2.30	629	2.57	642	2.82	656	3.09	670	3.37	684	3.67	698	3.97	723	4.57	748	5.18	771	5.77
15320	2000	643	2.61	658	2.90	671	3.17	684	3.45	697	3.74	710	4.04	723	4.35	748	4.99	772	5.63	795	6.26
16852	2200	701	3.34	715	3.67	728	3.98	740	4.27	751	4.57	763	4.89	775	5.22	799	5.90	822	6.60	844	7.31
18384	2400	760	4.22	773	4.56	785	4.91	797	5.24	807	5.56	818	5.89	829	6.23	851	6.95	873	7.70	894	8.47
19916	2600	820	5.27	831	5.59	843	5.98	854	6.36	864	6.71	874	7.06	884	7.41	904	8.16	925	8.95	945	9.76
21448	2800	880	6.46	890	6.80	900	7.20	912	7.62	922	8.02	931	8.39	940	8.77	959	9.54	978	10.36	997	11.21
22980	3000	939	7.78	949	8.21	958	8.59	969	9.04	979	9.49	989	9.91	997	10.31	1015	11.12	1032	11.96	1050	12.84
24512	3200	998	9.30	1009	9.81	1017	10.18	1027	10.64	1037	11.12	1046	11.59	1055	12.04	1071	12.90	1087	13.77	1104	14.67
26044	3400	1060	11.11	1069	11.59	1077	12.00	1085	12.43	1094	12.94	1104	13.46	1112	13.95	1128	14.88	1143	15.79	1159	16.73

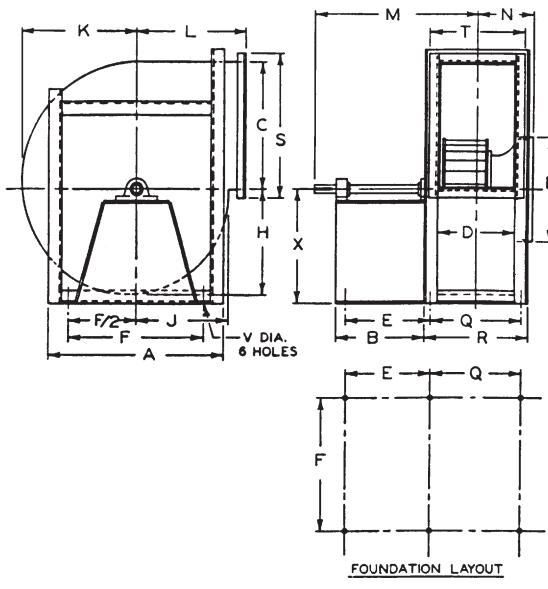
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9958	1300	665	3.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10724	1400	683	4.14	736	5.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11490	1500	703	4.51	752	5.50	801	6.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12256	1600	724	4.93	770	5.94	816	7.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13022	1700	746	5.38	790	6.42	834	7.52	877	8.68	—	—	—	—	—	—	—	—	—	—	—	—
13788	1800	769	5.85	812	6.95	853	8.07	894	9.26	935	10.50	—	—	—	—	—	—	—	—	—	—
14554	1900	792	6.36	834	7.51	874	8.67	913	9.88	951	11.15	990	12.46	—	—	—	—	—	—	—	—
15320	2000	816	6.88	857	8.10	895	9.32	933	10.56	970	11.85	1006	13.19	1043	14.57	1111	17.72	1144	19.24	1178	20.78
16852	2200	865	8.01	904	9.38	941	10.72	976	12.05	1010	13.40	1044	14.79	1077	16.23	—	—	—	—	—	—
18384	2400	914	9.23	952	10.76	988	12.25	1022	13.71	1054	15.17	1086	16.63	1117	18.12	1148	19.66	1178	21.24	1209	22.86
19916	2600	964	10.58	1002	12.25	1036	13.90	1069	15.51	1100	17.10	1130	18.67	1160	20.25	1189	21.84	1217	23.47	1246	25.14
21448	2800	1015	12.08	1051	13.87	1085	15.66	1117	17.43	1148	19.17	1177	20.88	1205	22.58	1233	24.27	1260	25.98	1287	27.71
22980	3000	1067	13.75	1102	15.64	1135	17.56	1166	19.47	1196	21.37	1225	23.23	1252	25.08	1279	26.90	1305	28.71	1330	30.53
24512	3200	1120	15.62	1153	17.58	1185	19.61	1216	21.66	1245	23.71	1273	25.73	1300	27.72	1326	29.69	1351	31.64	1376	33.58
26044	3400	1174	17.70	1205	19.73	1236	21.85	1266	24.02	1294	26.20	1322	28.37	1348	30.52	1374	32.64	1399	34.74	1423	36.82
27576	3600	1229	20.01	1258	22.10	1288	24.30	1316	26.56	1344	28.86	1371	31.17	1397	33.47	1422	35.75	1447	38.00	1470	40.24
29108	3800	1285	22.57	1312	24.71	1340	26.98	1368	29.32	1395	31.73	1421	34.15	1447	36.59	1472	39.02	1495	41.43	1519	43.82
30640	4000	1341	25.39	1367	27.58	1394	29.90	1420	32.32	1446	34.82	1472	37.35	1497	39.91	1521	42.47	1545	45.03	1568	47.57
32172	4200	1398	28.47	1423	30.73	1448	33.10	1473	35.58	1498	38.15	1523	40.78	1547	43.44	1571	46.13	1594	48.82	1617	51.51
33704	4400	1456	31.81	1479	34.17	1503	36.59	1527	39.13	1551	41.76	1575	44.47	1598	47.23	1622	50.02	1644	52.83	1666	55.65

VOL. CFM	OUTLET VEL. FPM	7 S.P.		7.5 S.P.		8 S.P.		8.5 S.P.		9 S.P.		10 S.P.		11 S.P.		12 S.P.		13 S.P.		14 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18384	2400	<b																			

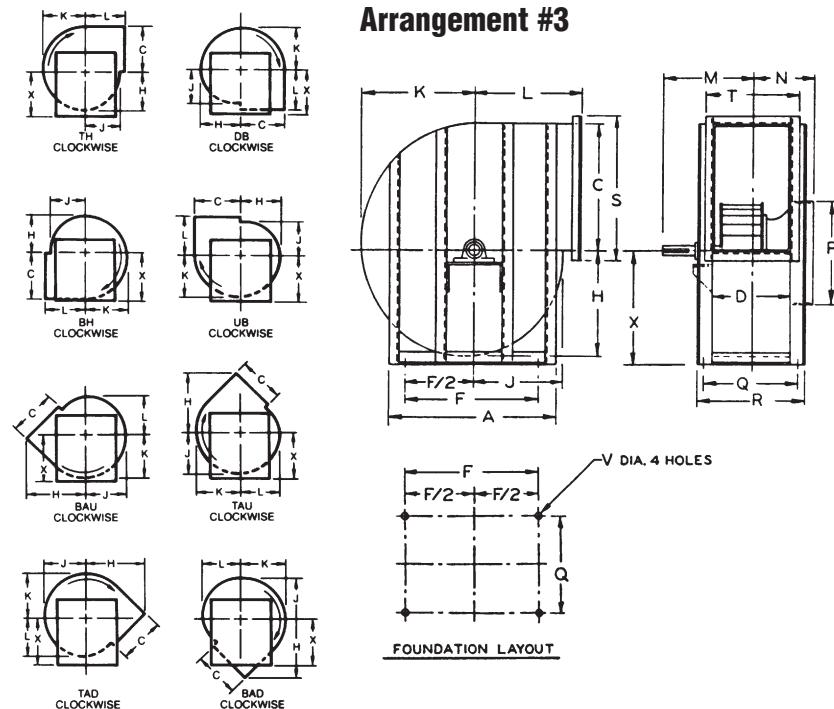
PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #1



Arrangement #3



Arrangement #1 & #3 — SWSI — Class I & II

Model No.	Shaft Ext. Dia.	Shaft Keyway		Shaft Ext. Dia. Keyway		TH, DB, BH, UB Straight Discharge						TH, DB, BH, UB Angular Discharge						Class I		Class II																							
		Class I		Class II		A	B	C	D	E	F	H	J	K	L	H	J	K	L	M	M	N	P	Q	R	S	T	U	V	W	X	TH	DB	BH	UB	BAU	TAU	TAD	BAD	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II		
		1 15/16	1/2 x 1/4 x 5	29/16	1/2 x 1/4 x 5	49 1/2	23	39 1/4	28 1/2	23	38 1/2	30	247/8	34 1/8	28 1/8	27	47 7/8	32	37 1/8	27	45 1/8	45 1/8	16 1/4	39	31 1/4	33 1/2	44 1/4	33 1/2	—	1/8	—	32	28 1/8	42 1/4	36 1/8	39 1/8	34	29	34	1260	1380		
AF365SW	36 1/2	1 15/16	1/2 x 1/4 x 6	1 15/16	1/2 x 1/4 x 6	49 1/2	—	39 1/4	28 1/2	—	38 1/2	30	247/8	34 1/8	28 1/8	27	47 7/8	32	37 1/8	27	45 1/8	45 1/8	16 1/4	39	31 1/4	33 1/2	44 1/4	33 1/2	—	1/8	—	32	28 1/8	42 1/4	36 1/8	39 1/8	34	29	34	965	1060		
AF365SW	36 1/2	1 15/16	1/2 x 1/4 x 6	1 15/16	1/2 x 1/4 x 6	49 1/2	—	39 1/4	28 1/2	—	38 1/2	30	247/8	34 1/8	28 1/8	27	47 7/8	32	37 1/8	27	45 1/8	45 1/8	16 1/4	39	31 1/4	33 1/2	44 1/4	33 1/2	—	1/8	—	32	28 1/8	42 1/4	36 1/8	39 1/8	34	29	34	965	1060		

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF402SW

TIP SPEED (FPM) = $10.54 \times \text{RPM}$

WHEEL DIAMETER = $40\frac{1}{4}$ "

OUTLET

9.31 Sq. Ft. Inside
 $43\frac{1}{4}$ " x $31\frac{5}{8}$ " Outside

MAX. HP = 21.01 $\frac{(\text{RPM})^3}{1000}$ ³

INLET

9.85 Sq. Ft. Inside
 43 " Dia. Outside

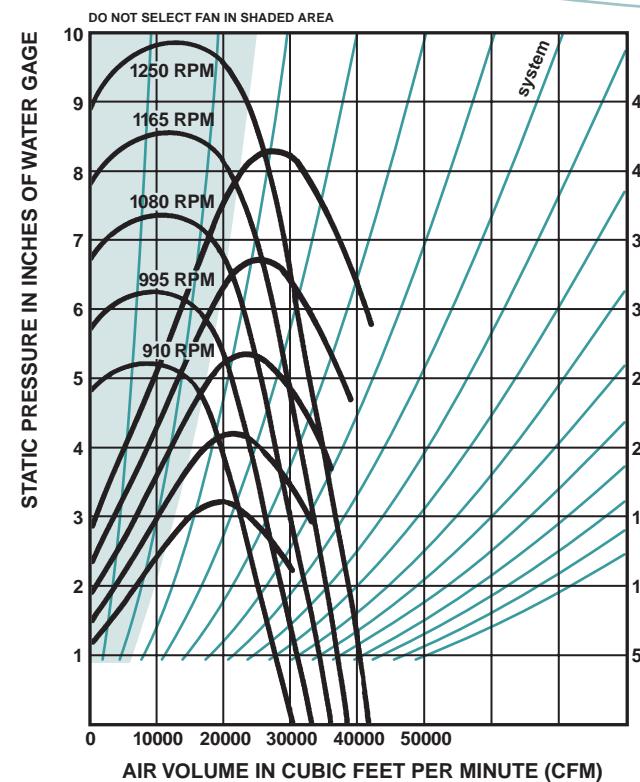
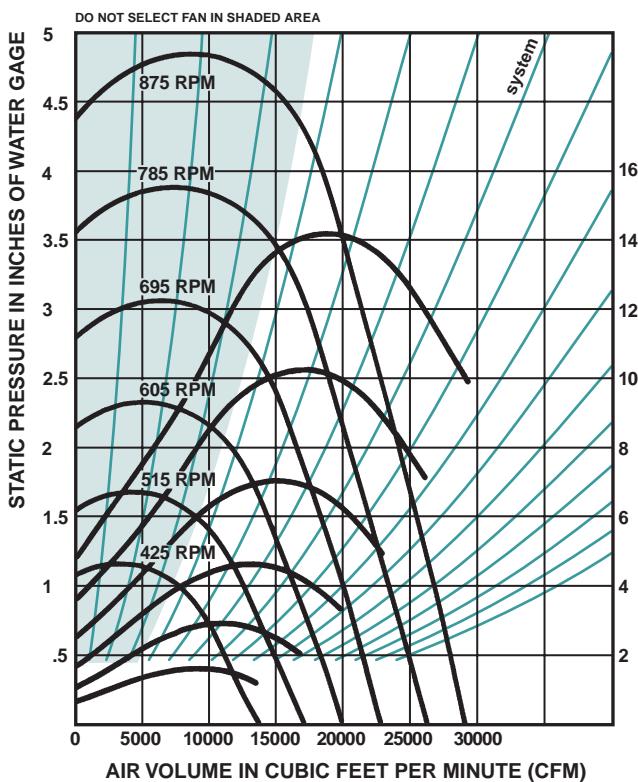
MAX. RPM
CL.1 996
CL.2 1297
CL.3 1634

VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP																		
7448	800	282	0.45	306	0.60	328	0.75	349	0.90	370	1.07	—	—	—	—	—	—	—	—	—	—
8379	900	305	0.55	328	0.72	349	0.89	368	1.06	387	1.23	405	1.41	424	1.60	—	—	—	—	—	—
9310	1000	328	0.66	350	0.86	370	1.05	389	1.23	406	1.42	423	1.60	440	1.80	473	2.21	—	—	—	—
10241	1100	352	0.79	373	1.00	392	1.22	410	1.43	427	1.63	443	1.83	458	2.04	488	2.47	519	2.92	—	—
11172	1200	376	0.95	396	1.17	415	1.40	432	1.64	448	1.86	463	2.08	478	2.31	506	2.75	534	3.23	562	3.73
12103	1300	401	1.13	419	1.36	437	1.61	454	1.86	470	2.11	485	2.36	499	2.60	526	3.08	552	3.57	578	4.08
13034	1400	426	1.33	443	1.57	460	1.84	477	2.11	492	2.38	507	2.65	520	2.91	546	3.43	571	3.95	595	4.48
13965	1500	452	1.57	468	1.82	484	2.09	500	2.38	515	2.67	529	2.96	542	3.25	568	3.81	592	4.36	615	4.92
14896	1600	478	1.83	493	2.09	508	2.37	523	2.67	537	2.98	551	3.29	564	3.60	589	4.21	613	4.81	635	5.40
15827	1700	504	2.12	518	2.40	532	2.69	546	3.00	560	3.32	574	3.65	587	3.98	611	4.64	634	5.28	656	5.91
16758	1800	530	2.44	544	2.74	557	3.04	571	3.36	584	3.69	597	4.04	610	4.39	634	5.09	656	5.78	677	6.45
17689	1900	556	2.79	570	3.12	583	3.43	595	3.76	608	4.10	620	4.46	633	4.82	656	5.56	678	6.30	699	7.02
18620	2000	583	3.17	596	3.53	608	3.86	620	4.19	632	4.55	644	4.91	656	5.29	679	6.07	700	6.84	721	7.61
20482	2200	636	4.06	648	4.46	660	4.84	671	5.19	681	5.56	692	5.95	703	6.35	725	7.18	746	8.03	765	8.89
22344	2400	689	5.14	701	5.54	712	5.97	722	6.37	732	6.76	742	7.16	752	7.58	772	8.45	792	9.37	811	10.29
24206	2600	744	6.41	753	6.80	764	7.27	775	7.73	784	8.16	793	8.58	802	9.01	820	9.92	839	10.88	857	11.87
26068	2800	798	7.85	807	8.27	817	8.75	827	9.27	836	9.75	844	10.21	853	10.66	870	11.60	887	12.59	904	13.63
27930	3000	851	9.47	861	9.98	869	10.44	879	10.99	888	11.54	896	12.05	904	12.54	920	13.52	936	14.54	952	15.61
29792	3200	905	11.31	915	11.93	922	12.38	931	12.93	940	13.53	949	14.10	957	14.64	971	15.68	986	16.74	1001	17.84
31654	3400	961	13.51	969	14.10	977	14.59	984	15.12	992	15.74	1001	16.37	1009	16.97	1023	18.10	1037	19.20	1051	20.34

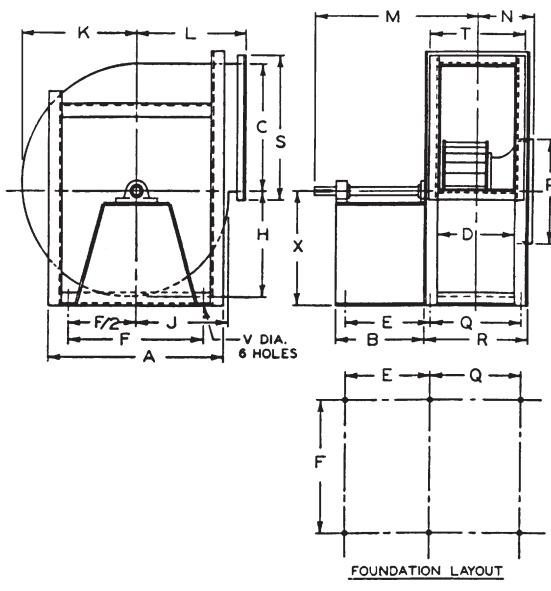
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12103	1300	603	4.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13034	1400	619	5.03	667	6.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13965	1500	637	5.49	682	6.69	726	7.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14896	1600	656	5.99	698	7.22	740	8.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15827	1700	677	6.54	717	7.81	756	9.15	795	10.56	—	—	—	—	—	—	—	—	—	—	—	—
16758	1800	697	7.12	736	8.45	774	9.82	811	11.26	848	12.76	—	—	—	—	—	—	—	—	—	—
17689	1900	719	7.73	756	9.13	792	10.55	828	12.02	863	13.56	898	15.15	—	—	—	—	—	—	—	—
18620	2000	740	8.37	777	9.85	812	11.33	846	12.84	879	14.41	913	16.04	946	17.72	977	19.74	1007	21.55	1038	23.40
20482	2200	784	9.74	820	11.41	853	13.04	885	14.66	916	16.30	947	17.99	977	19.74	1007	21.55	1038	23.40	1068	25.27
22344	2400	829	11.23	864	13.08	896	14.90	927	16.68	956	18.44	985	20.22	1013	22.04	1041	23.90	1068	25.82	1096	27.79
24206	2600	875	12.87	908	14.90	940	16.90	969	18.86	998	20.79	1025	22.70	1052	24.62	1078	26.56	1104	28.55	1130	30.58
26068	2800	921	14.69	953	16.86	984	19.04	1013	21.19	1041	23.31	1067	25.39	1093	27.45	1118	29.51	1143	31.59	1167	33.69
27930	3000	968	16.72	999	19.02	1029	21.35	1058	23.68	1085	25.98	1110	28.25	1135	30.49	1160	32.71	1183	34.92	1206	37.13
29792	3200	1016	18.99	1046	21.38	1075	23.85	1102	26.34	1129	28.83	1154	31.29	1179	33.71	1202	36.11	1225	38.48	1248	40.84
31654	3400	1065	21.52	1093	23.99	1121	26.57	1148	29.21	1174	31.85	1199	34.49	1223	37.11	1246	39.70	1268	42.25	1290	44.78
33516	3600	1115	24.33	1141	26.87	1168	29.55	1194	32.30	1219	35.10	1244	37.90	1267	40.70	1290	43.47	1312	46.21	1333	48.93
35378	3800	1165	27.44	1190	30.05	1215	32.80	1240	35.66	1265	38.58	1289	41.53	1312	44.49	1334	47.44	1356	50.38	1377	53.28
37240	4000	1216	30.87	1240	33.54	1264	36.36	1288	39.31	1311	42.34	1335	45.42	1357	48.53	1379	51.64	1401	54.75	1422	57.84
39102	4200	1268	34.62	1290	37.37	1313	40.25	1336	43.27	1359	46.39	1381	49.59	1403	52.83	1425	56.09	1446	59.37	1466	62.63
40964	4400	1320	38.69	1341	41.55	1363	44.50	1384	47.58	1406	50.78	1428	54.07	1449	57.43	1471	60.83	1491	64.25	1511	67.67

VOL. CFM	OUTLET VEL. FPM	7 S.P.		7.5 S.P.		8 S.P.		8.5 S.P.		9 S.P.		10 S.P.		11 S.P
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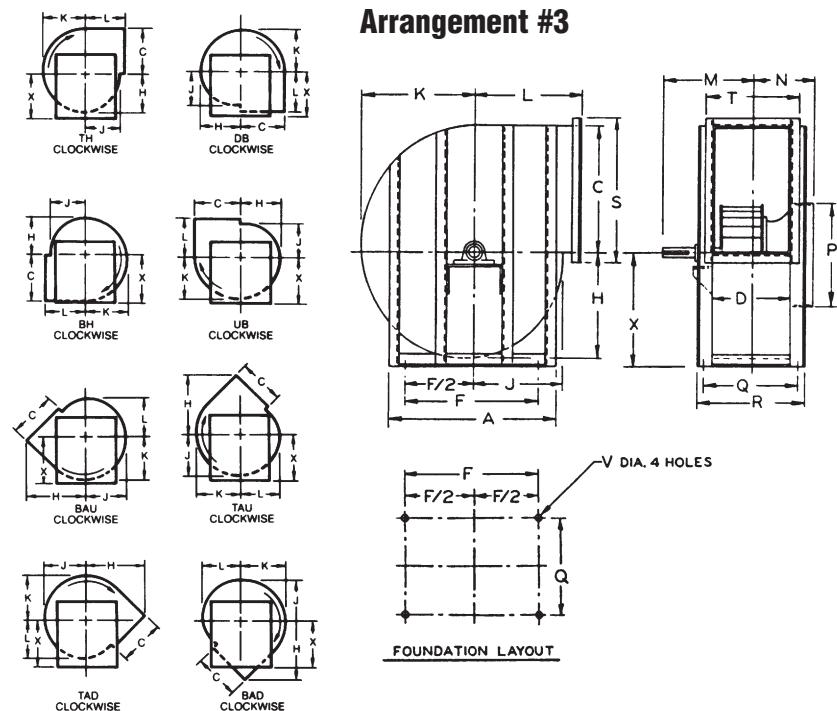
PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #1



Arrangement #3



Arrangement #1 & #3 — SWSI — Class I & II

Model No.	Shaft Ext. Dia. Whe. Dia.	Shaft Ext. Dia. Keyway		Shaft Ext. Dia. Keyway		TH, DB, BH, UB Straight Discharge						TH, DB, BH, UB Angular Discharge						Class I		Class II																				
		Class I		Class II		A	B	C	D	E	F	H	J	K	L	H	J	K	L	M	M	N	P	Q	R	S	T	U	V	W	TH	DB	BH	UB	BAU	TAU	TAD	BAD	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
		Class I	Class II																																					
AF402SW	40 ¹ / ₄	29 ¹ / ₁₆	1 ¹ / ₂ x 1 ¹ / ₄ x 5	27 ¹ / ₁₆	5 ¹ / ₈ x 5 ¹ / ₁₆ x 6	54 ¹ / ₂	24 ¹ / ₂	43 ¹ / ₄	31 ⁵ / ₈	24 ¹ / ₂	42 ¹ / ₂	33	27 ¹ / ₂	37 ¹ / ₈	30 ³ / ₄	52 ¹ / ₈	35 ¹ / ₄	40 ¹ / ₈	29 ¹ / ₄	50 ¹ / ₄	18 ¹ / ₈	43	35 ¹ / ₈	37 ¹ / ₈	49 ¹ / ₄	37 ¹ / ₈	—	7 ¹ / ₈	—	35 ¹ / ₂	30 ¹ / ₈	47 ¹ / ₄	40 ¹ / ₈	43 ¹ / ₄	37 ³ / ₄	32 ¹ / ₄	37 ¹ / ₄	1710	1850	
AF402SW	40 ¹ / ₄	11 ⁵ / ₁₆	1 ¹ / _{2 x 1¹/₄ x 6}	29 ¹ / ₁₆	1 ¹ / _{2 x 1¹/₄ x 7}	54 ¹ / ₂	—	43 ¹ / ₄	31 ⁵ / ₈	—	42 ¹ / ₂	33	27 ¹ / ₂	37 ¹ / ₈	30 ³ / ₄	52 ¹ / ₈	35 ¹ / ₄	40 ¹ / ₈	29 ¹ / ₄	27 ¹ / ₂	21 ¹ / ₄	43	35 ¹ / ₈	37 ¹ / ₈	49 ¹ / ₄	37 ¹ / ₈	—	7 ¹ / ₈	—	35 ¹ / ₂	30 ¹ / ₈	47 ¹ / ₄	40 ¹ / ₈	43 ¹ / ₄	37 ³ / ₄	32 ¹ / ₄	37 ¹ / ₄	1310	1410	

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF445SW

TIP SPEED (FPM) = 11.65 x RPM

WHEEL DIAMETER = 44½"

OUTLET $\frac{11.39 \text{ Sq. Ft. Inside}}{47\frac{1}{4}'' \times 35'' \text{ Outside}}$

INLET $\frac{12.05 \text{ Sq. Ft. Inside}}{47\frac{1}{2}'' \text{ Dia. Outside}}$

MAX. HP = 35.04 $\frac{(\text{RPM})^3}{1000}$

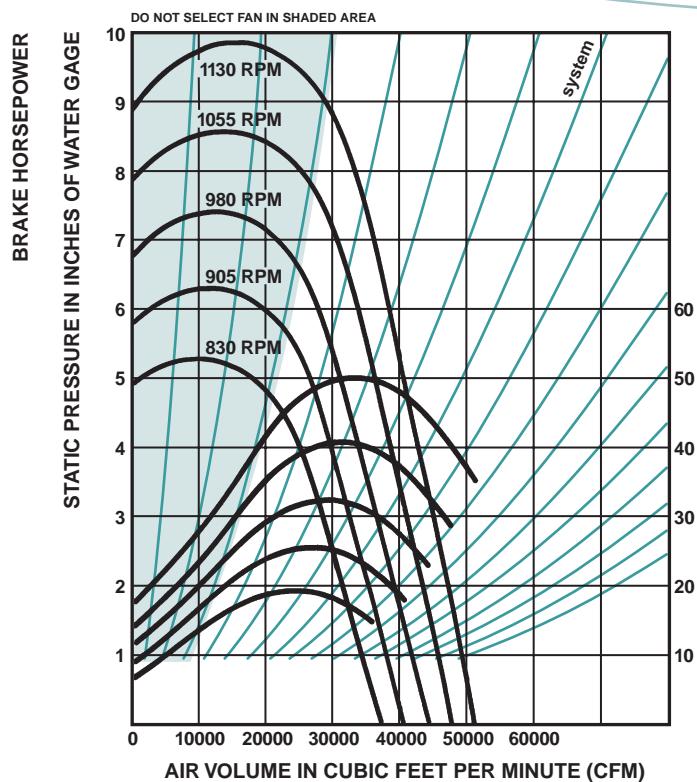
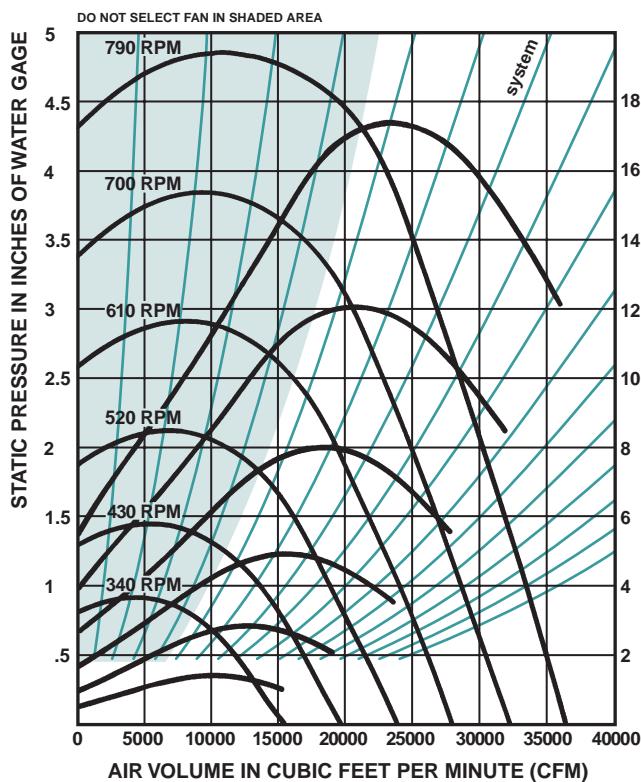
MAX. RPM
CL.1 901
CL.2 1173
CL.3 1480

VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP																		
9112	800	255	0.55	277	0.73	297	0.92	316	1.10	335	1.30	—	—	—	—	—	—	—	—	—	—
10251	900	276	0.67	297	0.88	315	1.09	333	1.29	350	1.50	367	1.72	383	1.95	—	—	—	—	—	—
11390	1000	297	0.81	317	1.05	335	1.28	351	1.51	367	1.73	383	1.96	398	2.20	428	2.71	—	—	—	—
12529	1100	318	0.97	337	1.23	355	1.49	371	1.74	386	1.99	400	2.24	414	2.49	442	3.02	469	3.57	—	—
13668	1200	340	1.16	358	1.35	375	1.72	391	2.00	405	2.28	419	2.55	432	2.82	458	3.37	483	3.95	508	4.55
14807	1300	363	1.38	379	1.66	396	1.97	411	2.28	425	2.58	438	2.88	451	3.18	476	3.76	499	4.36	523	4.99
15946	1400	386	1.63	401	1.92	416	2.24	431	2.58	445	2.91	458	3.24	471	3.56	494	4.19	517	4.83	539	5.47
17085	1500	409	1.92	423	2.22	438	2.56	452	2.91	465	3.26	478	3.62	490	3.97	513	4.66	535	5.33	556	6.01
18224	1600	433	2.24	446	2.56	459	2.90	473	3.27	486	3.64	499	4.02	511	4.40	533	5.15	554	5.88	574	6.60
19363	1700	456	2.59	469	2.93	482	3.29	494	3.67	507	4.06	519	4.46	531	4.87	553	5.67	574	6.46	593	7.23
20502	1800	480	2.98	492	3.35	504	3.72	516	4.11	528	4.51	540	4.94	551	5.36	573	6.22	593	7.06	612	7.89
21641	1900	503	3.41	516	3.81	527	4.19	538	4.59	550	5.01	561	5.45	572	5.89	593	6.80	613	7.70	632	8.58
22780	2000	527	3.88	539	4.32	550	4.72	561	5.13	572	5.56	582	6.01	593	6.47	614	7.41	633	8.37	652	9.31
25058	2200	575	4.96	587	5.45	597	5.91	607	6.35	616	6.80	626	7.27	636	7.76	656	8.77	674	9.82	692	10.86
27336	2400	624	6.28	634	6.77	644	7.30	653	7.79	662	8.27	671	8.76	680	9.27	698	10.33	716	11.45	733	12.58
29614	2600	673	7.83	681	8.31	691	8.89	701	9.45	709	9.97	717	10.49	725	11.02	742	12.13	758	13.30	775	14.50
31892	2800	722	9.60	730	10.10	739	10.70	748	11.33	756	11.92	764	12.48	771	13.03	787	14.18	802	15.39	817	16.66
34170	3000	770	11.57	779	12.20	786	12.76	795	13.44	803	14.10	811	14.72	818	15.32	832	16.52	846	17.77	861	19.08
36448	3200	819	13.83	828	14.59	834	15.13	842	15.81	850	16.53	858	17.23	865	17.89	879	19.17	892	20.46	905	21.81
38726	3400	869	16.52	877	17.23	883	17.84	890	18.48	898	19.24	905	20.00	912	20.74	925	22.12	938	23.47	950	24.86

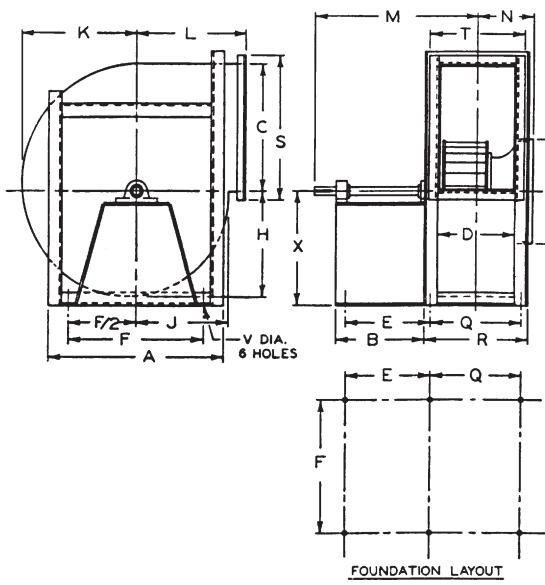
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14807	1300	546	5.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15946	1400	560	6.15	603	7.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17085	1500	576	6.71	617	8.18	657	9.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18224	1600	594	7.32	632	8.83	669	10.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19363	1700	612	7.99	648	9.55	684	11.18	719	12.91	—	—	—	—	—	—	—	—	—	—	—	—
20502	1800	631	8.70	666	10.32	700	12.00	733	13.76	767	15.60	—	—	—	—	—	—	—	—	—	—
21641	1900	650	9.45	684	11.16	717	12.89	749	14.69	780	16.57	812	18.52	—	—	—	—	—	—	—	—
22780	2000	670	10.23	703	12.05	734	13.85	765	15.69	795	17.61	825	19.60	856	21.66	911	26.34	938	28.60	966	30.89
25058	2200	709	11.90	742	13.94	772	15.93	800	17.91	829	19.92	856	21.99	884	24.13	—	—	—	—	—	—
27336	2400	750	13.73	781	15.99	810	18.21	838	20.38	865	22.54	891	24.72	916	26.94	941	29.22	966	31.56	992	33.97
29614	2600	791	15.73	821	18.21	850	20.65	877	23.05	902	25.41	927	27.75	951	30.10	975	32.47	999	34.89	1022	37.37
31892	2800	833	17.96	862	20.61	890	23.27	916	25.90	941	28.49	965	31.04	989	33.56	1011	36.08	1033	38.61	1055	41.18
34170	3000	875	20.44	904	23.24	931	26.10	957	28.94	981	31.76	1004	34.54	1027	37.27	1049	39.98	1070	42.68	1091	45.38
36448	3200	919	23.21	946	26.14	972	29.15	997	32.20	1021	35.24	1044	38.24	1066	41.21	1088	44.14	1108	47.03	1129	49.92
38726	3400	963	26.30	989	29.33	1014	32.48	1038	35.70	1062	38.94	1084	42.16	1106	45.36	1127	48.52	1147	51.64	1167	54.74
41004	3600	1008	29.74	1032	32.85	1056	36.12	1080	39.48	1103	42.90	1125	46.33	1146	49.74	1167	53.13	1187	56.49	1206	59.81
43282	3800	1054	33.55	1076	36.73	1099	40.10	1122	43.59	1144	47.16	1166	50.77	1187	54.38	1207	57.99	1227	61.58	1246	65.13
45560	4000	1100	37.73	1121	41.00	1143	44.45	1165	48.05	1186	51.75	1207	55.52	1228	59.32	1248	63.12	1267	66.93	1286	70.71
47838	4200	1147	42.32	1167	45.68	1187	49.20	1208	52.89	1229	56.71	1249	60.61	1269	64.57	1289	68.57	1308	72.57	1326	76.56
50116	4400	1194	47.29	1213	50.79	1233	54.39	1252	58.16	1272	62.07	1292	66.10	1311	70.20	1330	74.35	1349	78.53	1367	82.72

VOL. CFM	OUTLET VEL. FPM	7 S.P.		7.5 S.P.		8 S.P.		8.5 S.P.		9 S.P.		10 S.P.		11 S.P.		12 S.P.		13 S.P.		14 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM											

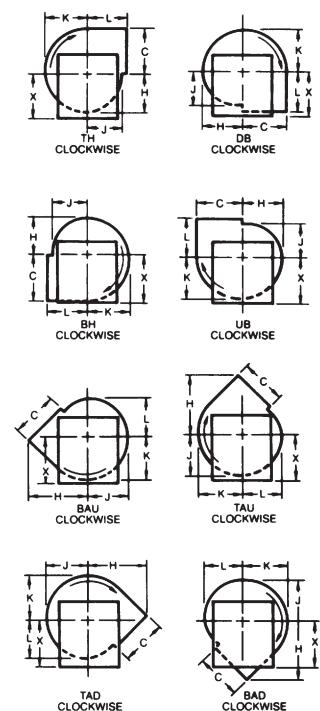
PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #1



Arrangement #3



Arrangement #1 & #3 — SWSI — Class I & II

Model No.	Shaft Ext. Dia.	Shaft Keyway		Shaft Ext. Dia.		Keyway		A	B	C	D	E	F	TH, DB, BH, UB Straight Discharge			TH, DB, BH, UB Angular Discharge			Class I	Class II	M	N	P	Q	R	S	T	U	V	W	TH DB BH UB BAU TAU TAD BAD X X		Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II					
		Class I		Class II																																				
		Class I	Class II	Class I	Class II	Class I	Class II							H	J	K	L	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	X							
AF445SW	4 1/2	2 9/16	1/2 x 1/4 x 6	2 11/16	5/8 x 5/16 x 6	59	25	47 3/4	35	25	47	36 1/8	30 1/4	41 1/8	34	57 1/2	38 1/4	45	32 3/4	52 1/2	20	47 1/2	38 1/2	41	—	7/8	—	38 5/8	34	51 1/4	43 1/8	47 1/2	41 1/4	35 1/4	41 1/4	2025	2260			
AF445SW	4 1/2	1 15/16	1/2 x 1/4 x 7	2 7/16	5/8 x 5/16 x 7	59	—	47 3/4	35	—	47	36 1/8	30 1/4	41 1/8	34	57 1/2	38 1/4	45	32 3/4	52 1/2	29	29 1/2	23 1/2	47 1/2	41	53 1/4	41	—	7/8	—	38 5/8	34	51 1/4	43 1/8	47 1/2	41 1/4	35 1/4	41 1/4	1545	1730

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF490SW

TIP SPEED (FPM) = 12.83 x RPM

WHEEL DIAMETER = 49"

OUTLET $\frac{13.80 \text{ Sq. Ft. Inside}}{52\frac{5}{8}'' \times 38\frac{1}{2}'' \text{ Outside}}$

MAX. HP = 56.73 $\frac{(\text{RPM})^3}{1000}$

INLET $\frac{14.61 \text{ Sq. Ft. Inside}}{52\frac{1}{4}'' \text{ Dia. Outside}}$

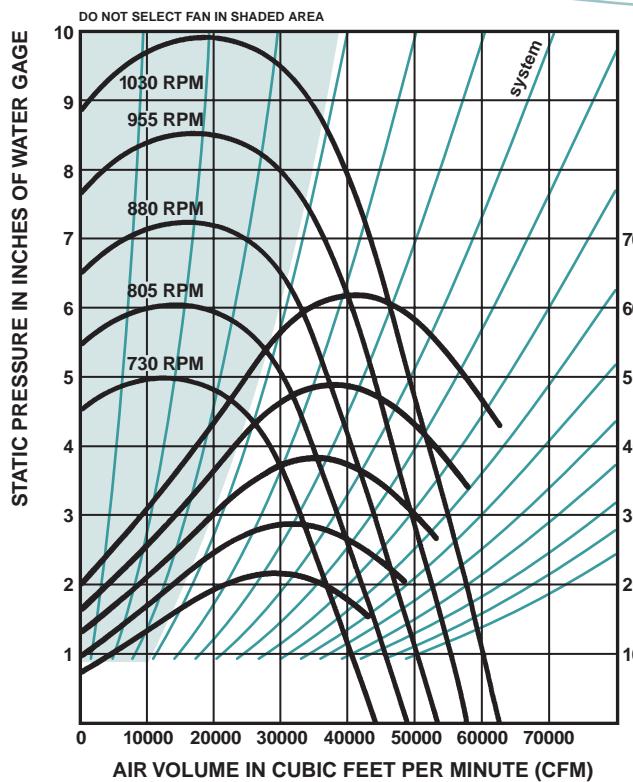
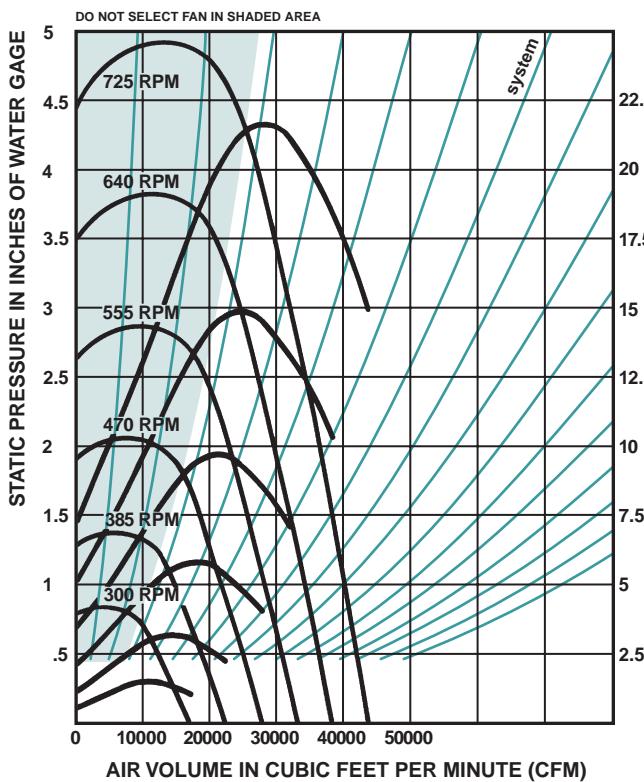
MAX. RPM
CL.1 818
CL.2 1066
CL.3 1342

VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP																		
11040	800	232	0.67	252	0.89	270	1.11	287	1.34	304	1.58	—	—	—	—	—	—	—	—	—	—
12420	900	250	0.81	269	1.07	286	1.32	302	1.56	318	1.82	333	2.09	348	2.36	—	—	—	—	—	—
13800	1000	269	0.98	288	1.27	304	1.55	319	1.83	333	2.10	347	2.38	361	2.67	389	3.28	—	—	—	—
15180	1100	289	1.18	306	1.49	322	1.80	337	2.11	350	2.41	363	2.72	376	3.02	401	3.66	426	4.33	—	—
16560	1200	309	1.40	325	1.74	341	2.08	355	2.42	368	2.76	381	3.09	393	3.42	416	4.08	439	4.78	462	5.52
17940	1300	329	1.67	344	2.02	359	2.38	373	2.76	386	3.13	398	3.49	410	3.85	432	4.56	453	5.29	475	6.05
19320	1400	350	1.98	364	2.33	378	2.72	392	3.12	404	3.53	416	3.93	427	4.32	449	5.09	469	5.85	489	6.64
20700	1500	371	2.32	384	2.69	397	3.10	410	3.52	423	3.95	434	4.39	445	4.81	466	5.65	486	6.47	505	7.29
22080	1600	393	2.71	405	3.10	417	3.52	429	3.96	441	4.42	453	4.88	464	5.34	484	6.25	503	7.13	521	8.00
23460	1700	414	3.14	426	3.56	437	3.99	449	4.44	460	4.92	471	5.41	482	5.90	502	6.87	521	7.83	539	8.76
24840	1800	436	3.62	447	4.07	458	4.51	469	4.98	480	5.47	490	5.98	501	6.50	520	7.54	539	8.56	556	9.56
26220	1900	457	4.14	468	4.62	479	5.08	489	5.57	499	6.08	509	6.61	520	7.15	539	8.24	557	9.33	574	10.40
27600	2000	479	4.71	490	5.23	500	5.72	509	6.21	519	6.74	529	7.28	539	7.84	558	8.99	575	10.14	592	11.28
30360	2200	522	6.02	533	6.61	542	7.17	551	7.70	560	8.24	569	8.81	578	9.41	595	10.64	612	11.90	629	13.17
33120	2400	566	7.61	576	8.21	585	8.85	593	9.44	601	10.02	609	10.62	618	11.23	634	12.53	650	13.88	666	15.26
35880	2600	611	9.50	619	10.07	628	10.78	636	11.46	644	12.09	651	12.72	659	13.36	674	14.70	689	16.12	704	17.59
38640	2800	656	11.64	663	12.25	671	12.97	679	13.73	687	14.45	694	15.13	701	15.80	714	17.19	728	18.67	742	20.20
41400	3000	699	14.03	707	14.79	714	15.48	722	16.29	729	17.10	736	17.85	743	18.58	756	20.03	769	21.55	782	23.14
44160	3200	744	16.77	752	17.69	758	18.35	765	19.17	772	20.05	779	20.89	786	21.70	798	23.24	810	24.81	822	26.44
46920	3400	789	20.03	796	20.89	802	21.63	808	22.41	815	23.32	822	24.25	829	25.15	840	26.82	852	28.46	863	30.14

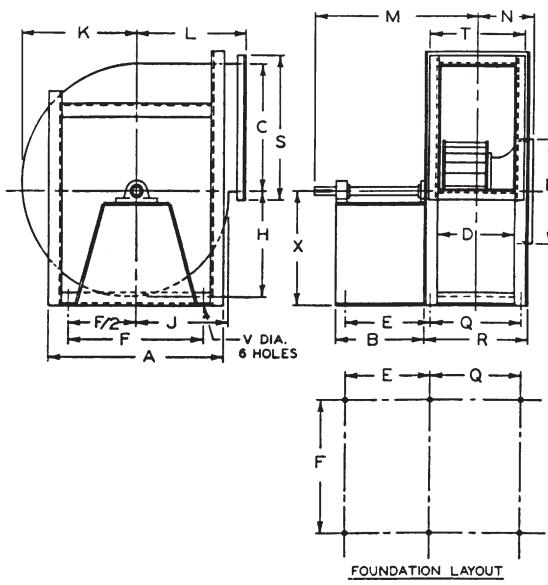
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.		
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
17940	1300	496	6.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
19320	1400	509	7.46	548	9.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
20700	1500	523	8.13	560	9.91	597	11.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
22080	1600	539	8.88	574	10.70	608	12.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
23460	1700	556	9.69	589	11.57	621	13.56	653	15.65	—	—	—	—	—	—	—	—	—	—	—	—	
24840	1800	573	10.55	605	12.52	635	14.55	666	16.69	696	18.92	—	—	—	—	—	—	—	—	—	—	—
26220	1900	590	11.46	621	13.53	651	15.63	680	17.81	709	20.09	737	22.46	—	—	—	—	—	—	—	—	—
27600	2000	608	12.41	638	14.61	667	16.79	695	19.03	722	21.35	750	23.77	777	26.26	—	—	—	—	—	—	—
30360	2200	644	14.43	673	16.90	701	19.32	727	21.72	752	24.16	778	26.66	802	29.26	827	31.94	852	34.68	877	37.46	
33120	2400	681	16.64	709	19.39	736	22.08	761	24.71	785	27.33	809	29.97	832	32.66	855	35.42	878	38.27	900	41.19	
35880	2600	718	19.08	746	22.08	772	25.04	796	27.95	820	30.81	842	33.65	864	36.49	886	39.37	907	42.31	928	45.31	
38640	2800	756	21.78	783	24.99	808	28.22	832	31.41	855	34.54	877	37.63	898	40.69	918	43.74	939	46.82	959	49.93	
41400	3000	795	24.78	821	28.18	845	31.64	869	35.09	891	38.51	912	41.87	933	45.19	953	48.48	972	51.75	991	55.02	
44160	3200	834	28.14	859	31.69	883	35.35	906	39.04	927	42.72	948	46.37	968	49.96	988	53.51	1007	57.03	1025	60.52	
46920	3400	875	31.89	898	35.56	921	39.38	943	43.28	964	47.21	985	51.12	1004	55.00	1023	58.83	1042	62.62	1060	66.37	
49680	3600	915	36.06	937	39.83	959	43.79	981	47.87	1001	52.01	1022	56.17	1041	60.31	1060	64.42	1078	68.49	1095	72.52	
52440	3800	957	40.67	978	44.54	998	48.62	1019	52.85	1039	57.18	1059	61.55	1078	65.94	1096	70.31	1114	74.66	1131	78.97	
55200	4000	999	45.75	1018	49.71	1038	53.89	1058	58.26	1077	62.74	1096	67.31	1115	71.92	1133	76.54	1151	81.15	1168	85.73	
57960	4200	1042	51.31	1060	55.39	1078	59.66	1097	64.13	1116	68.76	1134	73.49	1153	78.30	1170	83.13	1188	87.98	1204	92.83	
60720	4400	1084	57.34	1102	61.58	1119	65.94	1137	70.51	1155	75.26	1173	80.14	1191	85.11	1208	90.15	1225	95.22	1241	100.30	

VOL. CFM	OUTLET VEL. FPM	7 S.P.		7.5 S.P.		8 S.P.		8.5 S.P.		9 S.P.		10 S.P.		11 S.P.		12 S.P.		13 S.P.		14 S.P.	
		RPM	BHP	RPM	BHP	RPM															

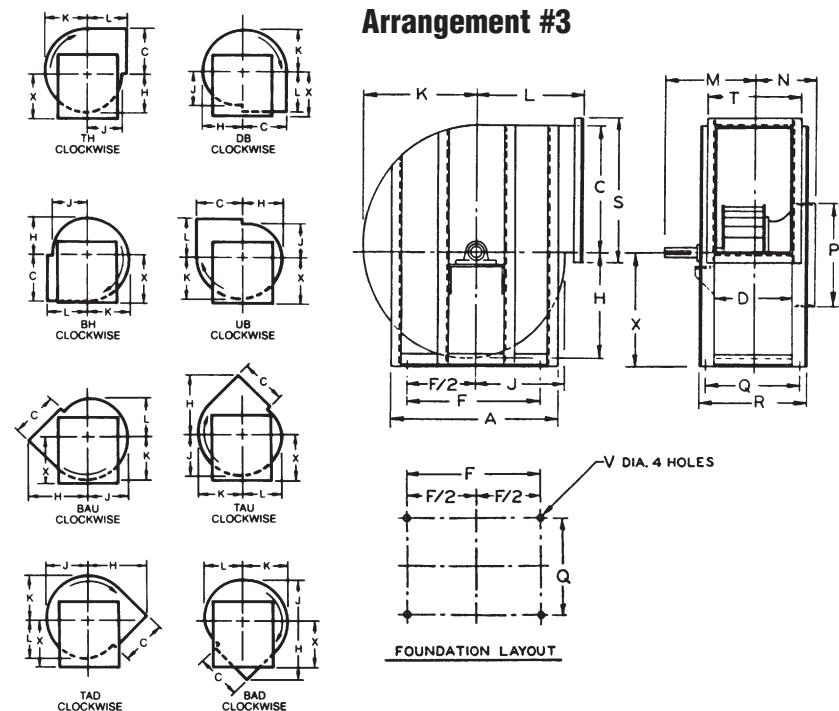
PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #1



Arrangement #3



Arrangement #1 & #3 — SWSI — Class I & II

Model No.	Shaft Ext. Dia.	Shaft Ext. Dia. Keyway		Shaft Ext. Dia. Keyway		TH, DB, BH, UB Straight Discharge						TH, DB, BH, UB Angular Discharge						Class I		Class II																					
		Class I	Class II	A	B	C	D	E	F	H	J	K	L	H	J	K	L	M	M	N	P	Q	R	S	T	U	V	W	X	X	TH	DB	BH	UB	BAU	TAU	TAD	BAD	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II	
AF490SW	.49	2 1/16	5/8 x 5/16 x 6	2 19/16	—	3/4 x 3 1/2 x 6	63 3/4	26	52 1/8	38 1/2	26	51 1/4	40 1/8	33 1/2	45 1/4	37 1/4	63 1/4	42 1/8	49 1/4	36 1/4	55 1/4	21 1/8	52 1/4	42	—	7/8	—	42 1/8	37 1/4	56 5/8	48 1/4	52 1/4	45 1/8	38 1/4	45 1/8	2530	2825				
AF490SW	.49	2 9/16	1/2 x 1 1/4 x 7	2 7/16	—	5/8 x 5/16 x 7	63 3/4	—	52 1/8	38 1/2	—	51 1/4	40 1/8	33 1/2	45 1/4	37 1/4	63 1/4	42 1/8	49 1/4	36 1/4	31	31 1/4	25 1/4	52 1/4	42	44 1/2	58 1/8	44 1/2	—	7/8	—	42 1/8	37 1/4	56 5/8	48 1/4	52 1/4	45 1/8	38 1/4	45 1/8	1930	2165

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF270DW

TIP SPEED (FPM) = 7.069 x RPM

WHEEL DIAMETER = 27"

OUTLET $\frac{7.54 \text{ Sq. Ft. Inside}}{29'' \times 38\frac{1}{8}'' \text{ Outside}}$

INLET $\frac{8.860 \text{ Sq. Ft. Inside}}{29'' \text{ Dia. Outside}}$

MAX. HP = 6.01 $\frac{(\text{RPM})^3}{1000}$ ³

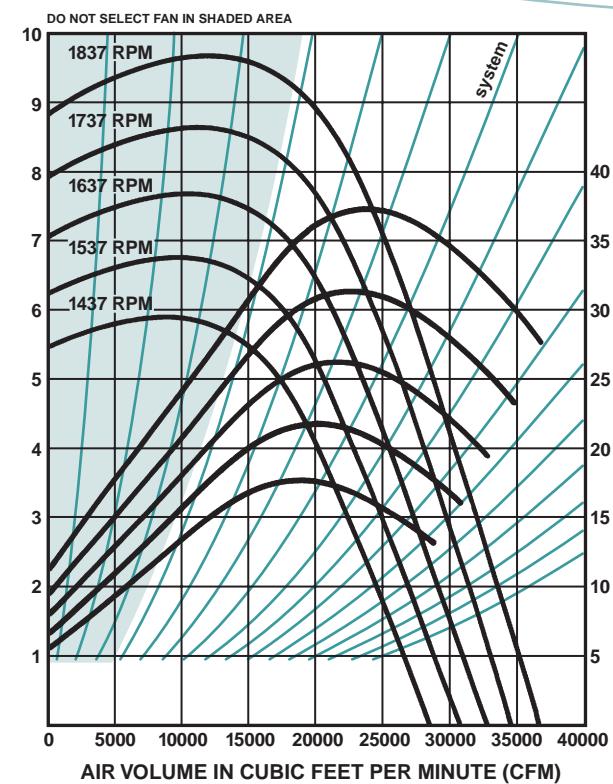
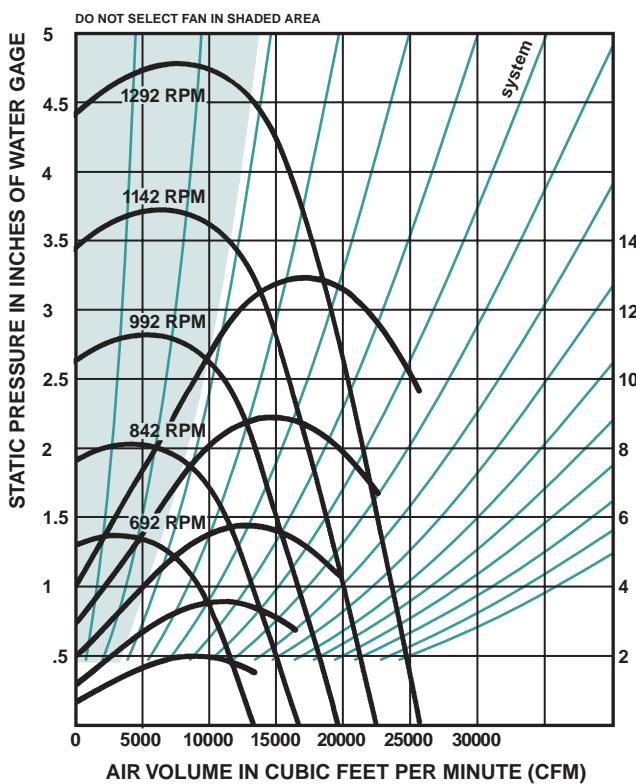
MAX. RPM
CL.1 1453
CL.2 1895
CL.3 2388

VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6032	800	396	0.36	433	0.48	468	0.62	503	0.76	538	0.91	573	1.07	610	1.23	—	—	—	—	—	—
6786	900	427	0.44	461	0.57	493	0.72	524	0.87	555	1.03	586	1.19	618	1.37	682	1.73	—	—	—	—
7540	1000	458	0.53	491	0.68	521	0.83	550	0.99	578	1.16	606	1.34	633	1.52	690	1.90	748	2.29	—	—
8294	1100	490	0.64	522	0.80	551	0.97	578	1.14	604	1.31	629	1.50	654	1.69	705	2.09	756	2.50	809	2.94
9048	1200	522	0.76	553	0.94	581	1.12	607	1.30	631	1.48	655	1.68	679	1.87	725	2.29	771	2.73	818	3.19
9802	1300	555	0.90	585	1.09	612	1.28	637	1.48	660	1.68	683	1.88	705	2.09	748	2.52	791	2.97	834	3.45
10556	1400	589	1.05	617	1.26	643	1.47	667	1.68	690	1.89	712	2.10	733	2.32	774	2.77	814	3.24	853	3.73
11310	1500	624	1.23	650	1.45	675	1.67	698	1.90	721	2.12	742	2.35	762	2.58	801	3.05	839	3.53	876	4.04
12064	1600	658	1.44	683	1.66	707	1.90	730	2.14	752	2.38	772	2.62	792	2.86	829	3.35	866	3.86	901	4.38
12818	1700	694	1.67	717	1.90	740	2.15	762	2.40	783	2.66	803	2.91	822	3.17	859	3.68	894	4.21	927	4.75
13572	1800	729	1.92	751	2.16	773	2.42	794	2.69	815	2.96	834	3.23	853	3.50	889	4.04	922	4.59	955	5.15
14326	1900	765	2.20	786	2.45	806	2.72	827	3.00	847	3.28	866	3.57	884	3.85	919	4.42	952	5.00	983	5.58
15080	2000	801	2.50	821	2.77	840	3.05	860	3.34	879	3.64	898	3.94	916	4.23	950	4.83	982	5.44	1013	6.05
16588	2200	872	3.19	892	3.51	909	3.80	927	4.11	945	4.43	962	4.75	980	5.08	1013	5.74	1043	6.40	1073	7.06
18096	2400	944	4.00	963	4.36	980	4.69	996	5.02	1012	5.35	1028	5.70	1045	6.06	1076	6.77	1106	7.49	1134	8.21
19604	2600	1017	4.95	1035	5.35	1051	5.72	1066	6.07	1081	6.43	1096	6.79	1111	7.17	1141	7.94	1169	8.71	1197	9.49
21112	2800	1090	6.06	1106	6.47	1122	6.90	1137	7.28	1151	7.66	1164	8.04	1178	8.44	1206	9.25	1234	10.08	1261	10.92
22620	3000	1164	7.35	1178	7.75	1194	8.22	1208	8.66	1221	9.06	1234	9.47	1247	9.88	1273	10.73	1299	11.60	1325	12.50
24128	3200	1238	8.80	1251	9.21	1265	9.71	1280	10.19	1293	10.64	1305	11.07	1317	11.50	1341	12.39	1366	13.31	1390	14.25
25636	3400	1312	10.41	1324	10.87	1337	11.36	1351	11.90	1364	12.40	1376	12.87	1387	13.33	1410	14.25	1433	15.20	1456	16.19

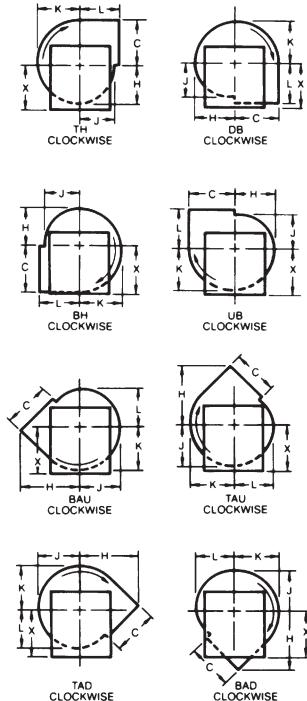
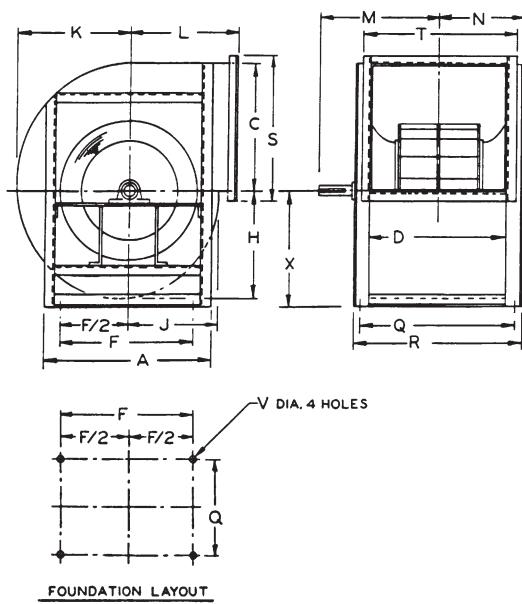
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9802	1300	877	3.94	966	4.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10556	1400	893	4.25	974	5.32	1057	6.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11310	1500	913	4.57	988	5.69	1063	6.84	1141	8.06	—	—	—	—	—	—	—	—	—	—	—	—
12064	1600	936	4.93	1005	6.08	1075	7.28	1147	8.52	1220	9.83	—	—	—	—	—	—	—	—	—	—
12818	1700	960	5.31	1026	6.49	1091	7.74	1158	9.03	1225	10.35	1294	11.75	—	—	—	—	—	—	—	—
13572	1800	987	5.73	1049	6.94	1111	8.22	1173	9.55	1235	10.93	1299	12.33	1364	13.81	—	—	—	—	—	—
14326	1900	1014	6.18	1074	7.42	1132	8.73	1191	10.10	1250	11.52	1309	12.98	1370	14.46	1431	16.01	1494	17.67	—	—
15080	2000	1042	6.66	1100	7.94	1156	9.28	1211	10.68	1267	12.14	1323	13.65	1380	15.18	1437	16.74	1496	18.36	1555	20.08
16588	2200	1101	7.73	1155	9.09	1207	10.50	1258	11.96	1309	13.48	1359	15.06	1410	16.69	1461	18.35	1513	20.03	1565	21.75
18096	2400	1162	8.93	1213	10.39	1262	11.88	1310	13.41	1357	14.99	1404	16.63	1450	18.32	1496	20.06	1543	21.84	1590	23.65
19604	2600	1223	10.27	1273	11.83	1320	13.42	1366	15.03	1410	16.68	1453	18.39	1496	20.14	1539	21.94	1582	23.79	1625	25.68
21112	2800	1286	11.75	1335	13.43	1380	15.12	1424	16.83	1466	18.57	1507	20.34	1548	22.15	1588	24.02	1628	25.92	1667	27.88
22620	3000	1350	13.39	1397	15.19	1441	16.99	1484	18.80	1524	20.63	1564	22.49	1602	24.38	1640	26.31	1678	28.28	1715	30.29
24128	3200	1414	15.20	1460	17.11	1503	19.03	1544	20.96	1584	22.89	1622	24.84	1659	26.82	1695	28.82	1731	30.86	1767	32.94
25636	3400	1479	17.19	1524	19.22	1566	21.25	1606	23.29	1645	25.34	1682	27.39	1718	29.46	1753	31.56	1787	33.68	1821	35.83
27144	3600	1545	19.37	1588	21.51	1629	23.66	1669	25.82	1706	27.98	1743	30.14	1778	32.32	1812	34.51	1845	36.72	1878	38.95
28652	3800	1612	21.78	1653	24.00	1693	26.27	1732	28.54	1769	30.82	1804	33.10	1838	35.39	1872	37.68	1904	39.99	1936	42.32
30160	4000	1680	24.41	1719	26.72	1758	29.09	1795	31.48	1832	33.88	1866	36.27	1900	38.67	1933	41.08	1964	43.49	1995	45.92
31668	4200	1749	27.29	1786	29.68	1823	32.14	1860	34.64	1895	37.15	1929	39.67	1962	42.19	1994	44.71	2025	47.23	2056	49.76
33176	4400	1818	30.43	1854	32.89	1889	35.44	1925	38.04	1959	40.66	1993	43.30	2025	45.93	2056	48.57	2087	51.21	2117	53.85

VOL. CFM	OUTLET VEL. FPM	7 S.P.
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PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #3



Arrangement #3 — DWDI — Class I & II

Model No.	Whe. Dia.	Shaft Ext. Dia.	Keyway	Shaft Ext. Dia.	Keyway	A	C	D	F	TH, DB, BH, UB Straight Discharge				TH, DB, BH, UB Angular Discharge				Class I	Class II	M	N	P	Q	R	S	T	U	V	W	TH DB BH UB BAU TAU TAD BAD X X				Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II	
		Class I	Class II	Class I	Class II					H	J	K	L	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	X							
		27	115/16	1/2 x 1/4 x 6	29/16	38 1/2	29	38 1/2	28 1/2	22 1/16	18 1/2	25 1/4	21 1/16	35 5/8	23 9/16	27 7/8	20	29	29 7/8	21 1/16	—	40 3/8	42 1/8	33	42 1/8	—	7/8	—	23 5/8	21 1/2	32	26 1/4	28 7/8	25 1/8	21 1/2	25 1/8	900	945
AF270DW																																				

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF300DW

TIP SPEED (FPM) = $7.854 \times \text{RPM}$

WHEEL DIAMETER = 30"

OUTLET
9.31 Sq. Ft. Inside
32¹/₄" x 41³/₄" Outside

INLET
10.939 Sq. Ft. Inside
32¹/₄" Dia. Outside

MAX. HP = 10.18 $\frac{(\text{RPM})^3}{1000}$

MAX. RPM
CL.1 1308
CL.2 1705
CL.3 2149

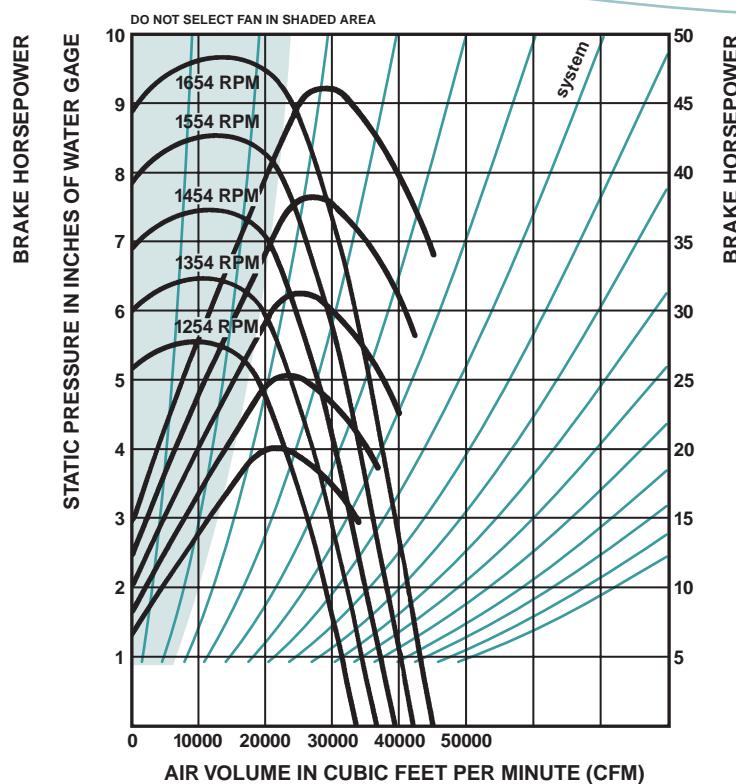
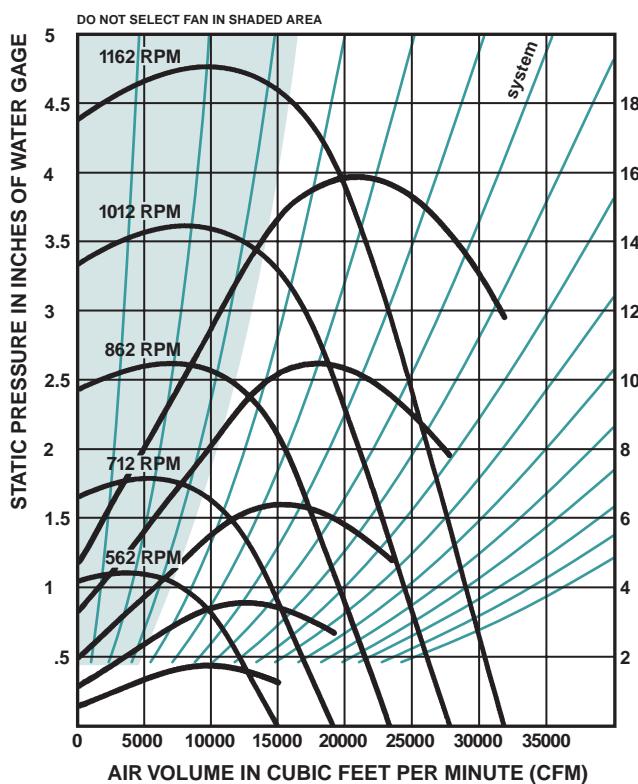
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7448	800	356	0.44	389	0.60	421	0.76	452	0.94	484	1.12	516	1.32	549	1.52	—	—	—	—	—	—
8379	900	384	0.54	415	0.71	444	0.88	472	1.07	500	1.27	528	1.47	556	1.69	614	2.13	—	—	—	—
9310	1000	412	0.65	442	0.84	469	1.03	495	1.23	520	1.43	545	1.65	570	1.87	621	2.34	673	2.83	—	—
10241	1100	441	0.78	470	0.99	495	1.19	520	1.40	543	1.62	566	1.85	589	2.08	634	2.58	681	3.09	728	3.63
11172	1200	470	0.93	498	1.16	523	1.38	546	1.60	568	1.83	590	2.07	611	2.31	652	2.83	694	3.37	737	3.93
12103	1300	500	1.11	526	1.34	551	1.58	573	1.83	594	2.07	615	2.32	634	2.57	673	3.11	712	3.67	750	4.26
13034	1400	530	1.30	555	1.56	579	1.81	601	2.07	621	2.33	641	2.60	660	2.87	696	3.42	732	4.00	768	4.61
13965	1500	561	1.52	585	1.79	607	2.07	629	2.34	649	2.62	668	2.90	686	3.18	721	3.76	755	4.36	788	4.99
14896	1600	593	1.78	615	2.05	636	2.35	657	2.64	676	2.94	695	3.23	713	3.53	747	4.14	779	4.76	811	5.41
15827	1700	624	2.06	645	2.35	666	2.65	686	2.97	705	3.28	723	3.59	740	3.91	773	4.55	804	5.20	834	5.87
16758	1800	656	2.37	676	2.67	695	2.99	715	3.32	733	3.65	751	3.98	768	4.32	800	4.99	830	5.67	859	6.36
17869	1900	689	2.71	707	3.03	725	3.36	744	3.70	762	4.05	779	4.40	796	4.76	827	5.46	857	6.17	885	6.89
18620	2000	721	3.09	739	3.43	756	3.77	774	4.12	791	4.49	808	4.86	824	5.23	855	5.97	884	6.71	911	7.46
20482	2200	785	3.94	802	4.33	818	4.70	834	5.08	850	5.47	866	5.87	882	6.28	911	7.09	939	7.90	966	8.72
22344	2400	850	4.94	867	5.39	882	5.79	896	6.19	911	6.61	926	7.04	940	7.48	968	8.36	995	9.25	1021	10.14
24206	2600	915	6.11	931	6.61	946	7.06	959	7.50	973	7.93	986	8.38	1000	8.85	1027	9.80	1053	10.76	1077	11.72
26068	2800	981	7.48	996	7.99	1010	8.52	1023	8.99	1035	9.46	1048	9.93	1060	10.41	1086	11.42	1110	12.44	1134	13.48
27930	3000	1048	9.07	1060	9.57	1075	10.15	1087	10.69	1099	11.19	1111	11.69	1122	12.19	1146	13.24	1169	14.33	1192	15.43
29792	3200	1115	10.87	1126	11.37	1139	11.98	1152	12.58	1163	13.14	1174	13.67	1185	14.20	1207	15.29	1229	16.43	1251	17.59
31654	3400	1181	12.85	1192	13.42	1204	14.03	1216	14.69	1228	15.31	1238	15.89	1249	16.45	1269	17.59	1290	18.77	1311	19.98

VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12103	1300	789	4.87	869	6.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13034	1400	804	5.25	877	6.56	951	7.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13965	1500	822	5.65	889	7.02	957	8.45	1027	9.95	—	—	—	—	—	—	—	—	—	—	—	—
14896	1600	842	6.08	905	7.50	968	8.99	1032	10.52	1098	12.14	—	—	—	—	—	—	—	—	—	—
15827	1700	864	6.56	923	8.01	982	9.55	1042	11.14	1103	12.78	1165	14.50	—	—	—	—	—	—	—	—
16758	1800	888	7.07	944	8.57	999	10.15	1055	11.79	1112	13.49	1169	15.23	1228	17.04	—	—	—	—	—	—
17869	1900	913	7.63	966	9.16	1019	10.78	1072	12.47	1125	14.23	1178	16.02	1233	17.86	1288	19.77	1345	21.82	—	—
18620	2000	938	8.23	990	9.80	1040	11.46	1090	13.19	1140	14.99	1191	16.85	1242	18.74	1293	20.67	1346	22.67	1400	24.79
20482	2200	991	9.54	1040	11.22	1086	12.96	1132	14.77	1178	16.65	1223	18.60	1269	20.60	1315	22.65	1361	24.73	1408	26.85
22344	2400	1046	11.03	1092	12.32	1136	14.66	1179	16.55	1221	18.51	1263	20.53	1305	22.62	1347	24.77	1388	26.97	1431	29.20
24206	2600	1101	12.68	1146	14.61	1188	16.56	1229	18.56	1269	20.60	1308	22.70	1347	24.86	1385	27.09	1424	29.37	1462	31.71
26068	2800	1158	14.51	1201	16.58	1242	18.67	1281	20.78	1319	22.92	1356	25.11	1393	27.35	1429	29.65	1465	32.01	1500	34.42
27930	3000	1215	16.53	1257	18.75	1297	20.98	1335	23.21	1372	25.47	1407	27.77	1442	30.10	1476	32.48	1510	34.91	1543	37.40
29792	3200	1273	18.77	1314	21.13	1353	23.50	1390	25.87	1425	28.26	1460	30.67	1493	33.11	1526	35.58	1558	38.10	1590	40.67
31654	3400	1331	21.22	1371	23.72	1409	26.24	1446	28.75	1480	31.28	1514	33.81	1546	36.37	1577	38.96	1608	41.58	1639	44.23
33516	3600	1391	23.92	1429	26.55	1466	29.21	1502	31.87	1536	34.54	1568	37.21	1600	39.90	1630	42.60	1660	45.33	1690	48.09
35378	3800	1451	26.88	1488	29.64	1524	32.43	1559	35.24	1592	38.05	1624	40.86	1655	43.69	1684	46.52	1714	49.37	1742	52.24
37240	4000	1512	30.13	1547	32.99	1582	35.92	1616	38.87	1648	41.82	1680	44.78	1710	47.74	1739	50.71	1768	53.70	1796	56.69
39102	4200	1574	33.69	1608	36.64	1641	39.68	1674	42.77	1706	45.87	1736	48.97	1766	52.08	1795	55.19	1823	58.31	1850	61.44
40964	4400	1637	37.56	1668	40.60	1701	43.75	1732	46.96	1763	50.20	1793	53.45	1823	56.71	1851	59.96	1878	63.22	1905	66.49

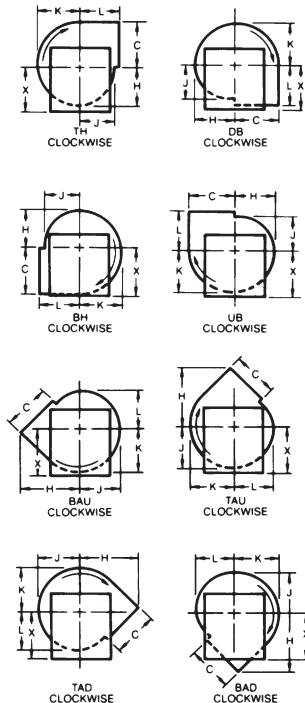
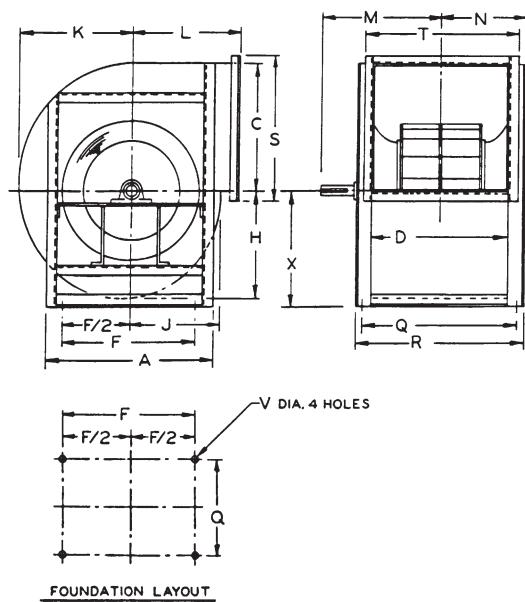
VOL. CFM	VEL. FPM	7 S.P.		7.5 S.P.		8 S.P.		8.5 S.P.		9 S.P.		10 S.P.		11 S.P.		12 S.P.		13 S.P.		14 S.P.	
RPM	BHP																				

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PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #3



Arrangement #3 — DW DI — Class I & II

Model No.	Shaft Ext. Dia.	Shaft Ext. Dia. Keyway		A	C	D	F	TH, DB, BH, UB Straight Discharge				TH, DB, BH, UB Angular Discharge				Class I	Class II	M	N	P	Q	R	S	T	U	V	W	TH		DB		BH		UB		BAU		TAU		TAD		BAD		Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
		Keyway	Class I					H	J	K	L	H	J	K	L																														
AF3000DW	30	115/16	1/2 x 1/4 x 6	27/16	5 1/8 x 5 1/16 x 6	41 1/4	32 1/4	41 1/4	31 1/4	24 1/8	20 1/2	28 1/8	23 3/4	39 3/8	26 1/8	30 1/2	22 1/4	30 7/8	32 1/2	22 1/8	—	44	45 3/4	36 1/4	45 1/4	—	1 1/8	—	26 1/8	23 1/2	35 1/4	29 1/8	32	27 7/8	23 3/4	27 7/8	1080	1950							

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF330DW

TIP SPEED (FPM) = 8.639 x RPM

WHEEL DIAMETER = 33"

OUTLET { 11.27 Sq. Ft. Inside
35³/₈" x 46³/₈" Outside

MAX. HP = 16.39 $\left(\frac{\text{RPM}}{1000}\right)^3$

MAX. RPM
CL.1 1189
CL.2 1550
CL.3 1954

VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9016	800	324	0.53	354	0.72	383	0.92	411	1.13	440	1.36	469	1.59	499	1.84	—	—	—	—	—	—
10143	900	349	0.65	377	0.86	404	1.07	429	1.30	454	1.53	480	1.78	505	2.04	558	2.58	—	—	—	—
11270	1000	375	0.79	402	1.02	426	1.24	450	1.48	473	1.73	496	1.99	518	2.27	564	2.83	612	3.43	—	—
12397	1100	401	0.95	427	1.20	450	1.44	473	1.70	494	1.96	515	2.23	535	2.52	577	3.12	619	3.74	662	4.39
13524	1200	427	1.13	452	1.40	475	1.67	496	1.94	516	2.22	536	2.50	555	2.80	593	3.42	631	4.08	670	4.76
14651	1300	454	1.34	478	1.63	501	1.92	521	2.21	540	2.51	559	2.81	577	3.12	612	3.76	647	4.44	682	5.16
15778	1400	482	1.58	505	1.88	526	2.19	546	2.51	565	2.82	582	3.14	600	3.47	633	4.14	666	4.84	698	5.58
16905	1500	510	1.84	532	2.17	552	2.50	571	2.84	590	3.17	607	3.51	624	3.85	655	4.55	686	5.28	717	6.04
18032	1600	539	2.15	559	2.48	578	2.84	597	3.20	615	3.55	632	3.91	648	4.27	679	5.01	708	5.76	737	6.55
19159	1700	568	2.49	586	2.84	605	3.21	623	3.59	641	3.97	657	4.35	673	4.73	703	5.50	731	6.29	759	7.10
20286	1800	597	2.87	614	3.23	632	3.62	650	4.02	667	4.42	683	4.82	698	5.22	727	6.03	755	6.86	781	7.70
21413	1900	626	3.28	643	3.67	660	4.07	676	4.48	693	4.91	708	5.33	724	5.76	752	6.61	779	7.47	805	8.34
22540	2000	655	3.74	671	4.14	687	4.56	703	4.99	719	5.43	735	5.88	749	6.33	777	7.22	804	8.12	829	9.03
24794	2200	714	4.77	729	5.24	744	5.68	758	6.14	773	6.62	787	7.10	801	7.59	828	8.58	854	9.56	878	10.55
27048	2400	772	5.97	788	6.52	802	7.01	815	7.49	828	8.00	841	8.52	855	9.05	880	10.11	905	11.19	928	12.26
29302	2600	832	7.39	847	7.99	860	8.55	872	9.07	884	9.60	896	10.15	909	10.71	933	11.85	957	13.01	979	14.18
31556	2800	892	9.05	905	9.67	918	10.30	930	10.88	941	11.44	953	12.01	964	12.60	987	13.81	1010	15.06	1031	16.31
33810	3000	953	10.98	964	11.58	977	12.28	988	12.93	999	13.54	1010	14.14	1020	14.75	1042	16.02	1063	17.34	1084	18.67
36064	3200	1013	13.15	1023	13.76	1035	14.50	1047	15.23	1058	15.90	1068	16.54	1077	17.18	1097	18.51	1117	19.88	1137	21.28
38318	3400	1073	15.55	1083	16.24	1094	16.98	1106	17.77	1116	18.52	1126	19.22	1135	19.91	1154	21.28	1173	22.71	1191	24.18

VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP																
14651	1300	718	5.89	790	7.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15778	1400	731	6.35	797	7.94	865	9.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16905	1500	747	6.83	808	8.49	870	10.22	934	12.04	—	—	—	—	—	—	—	—	—	—	—	—
18032	1600	766	7.36	822	9.08	880	10.87	938	12.73	998	14.69	—	—	—	—	—	—	—	—	—	—
19159	1700	786	7.94	839	9.70	893	11.56	947	13.49	1002	15.47	1059	17.55	—	—	—	—	—	—	—	—
20286	1800	807	8.56	858	10.36	909	12.28	959	14.27	1011	16.32	1063	18.43	1116	20.62	—	—	—	—	—	—
21413	1900	830	9.23	878	11.09	926	13.04	974	15.09	1022	17.21	1071	19.39	1121	21.61	1171	23.92	1223	26.40	—	—
22540	2000	853	9.95	900	11.86	946	13.86	991	15.96	1037	18.14	1082	20.39	1129	22.68	1176	25.01	1224	27.43	1272	29.99
24794	2200	901	11.55	945	13.58	988	15.68	1029	17.87	1071	20.14	1112	22.50	1154	24.93	1195	27.41	1238	29.93	1280	32.49
27048	2400	950	13.34	993	15.52	1033	17.74	1072	20.03	1110	22.40	1148	24.84	1186	27.37	1224	29.97	1262	32.63	1301	35.34
29302	2600	1001	15.34	1042	17.68	1080	20.04	1117	22.45	1154	24.92	1189	27.47	1224	30.08	1259	32.77	1294	35.54	1329	38.36
31556	2800	1052	17.56	1092	20.07	1129	22.59	1165	25.14	1199	27.73	1233	30.38	1266	33.09	1299	35.87	1332	38.73	1364	41.65
33810	3000	1104	20.01	1143	22.69	1179	25.38	1214	28.09	1247	30.82	1279	33.60	1311	36.42	1342	39.30	1373	42.24	1403	45.25
36064	3200	1157	22.71	1195	25.57	1230	28.43	1264	31.30	1296	34.19	1327	37.11	1357	40.06	1387	43.06	1416	46.10	1445	49.21
38318	3400	1210	25.68	1247	28.71	1281	31.75	1314	34.79	1346	37.85	1376	40.92	1405	44.01	1434	47.14	1462	50.31	1490	53.52
40572	3600	1264	28.94	1299	32.13	1333	35.35	1365	38.57	1396	41.79	1426	45.03	1454	48.28	1482	51.55	1509	54.85	1536	58.19
42826	3800	1319	32.53	1353	35.86	1385	39.24	1417	42.64	1447	46.04	1476	49.45	1504	52.86	1531	56.29	1558	59.74	1584	63.21
45080	4000	1375	36.46	1407	39.92	1438	43.46	1469	47.03	1499	50.61	1527	54.19	1555	57.77	1581	61.36	1607	64.97	1632	68.60
47334	4200	1431	40.76	1461	44.33	1492	48.01	1522	51.75	1551	55.50	1578	59.26	1605	63.02	1631	66.78	1657	70.56	1682	74.34
49588	4400	1488	45.45	1517	49.13	1546	52.94	1575	56.82	1603	60.75	1630	64.68	1657	68.62	1683	72.56	1708	76.50	1732	80.45

VOL. CFM	OUTLET VEL. FPM	7 S.P.		7.5 S.P.		8 S.P.		8.5 S.P.		9 S.P.		10 S.P.		11 S.P.		12 S.P.		13 S.P.		14 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
27048	2400	1339	38.08	1378	40.85	1417	43.68	1457	46.57	1498	49.57	—	—	—	—	—	—	—	—	—	—
29302	2600	1364	41.24	1400	44.17	1435	47.13	1471	50.12	1507	53.14	1580	59.36	1655	65.99	—	—	—	—	—	—
31556	2800	1397	44.63	1429	47.68	1462	50.77	1494	53.91	1571	57.08	1594	63.52	1661	70.09	1730	76.93	1800	84.27	—	—
33810	3000	1434	48.33	1464	51.47	1494	54.67	1525	57.92	1555	61.23	1616	67.95	1678	74.80	1740	81.76	1804	88.90	1868	96.33
36064	3200	1474	52.37	1503	55.60	1531	58.89	1560	62.24	1588	65.64	1645	72.61	1702	79.74	1760	87.00	1818	94.36	1877	101.84
38318	3400	1517	56.79	1544	60.11	1571	63.48	1598	66.92	1625	70.41	1679	77.57	1732	84.93	1786	92.46	1840	100.12	1894	107.88
40572	3600	1563	61.57	1589	65.00	1614	68.47	1640	72.00	1665	75.58	1716	82.91	1767	90.46	1817	98.20	1868	106.12	1919	114.17
42826	3800	1609	66.72	1634	70.27	1659	73.86	1684	77.49	1708	81.17	1757	88.68	1805	96.40	1853	104.33	1900	112.45	1948	120.74
45080	4000	1657	72.25	1682	75.93	1706	79.64	1729	83.39	1753	87.18	1799	94.89	1845	102.79	1891	110.89	1937	119.19	1982	127.67
47334	4200	1706	78.14	1730	81.96	1753	85.81	1776	89.69	1799	93.60	1844	101.54	1888	109.64	1932	117.92	1976	126.39	2019	135.05
49588	4400	1756	84.41	1779	88.39	1802	92.38	1824	96.40	1846	100.45	1890	108.63	1933	116.95	1975	125.44	2017	134.09	2059	142.93
51842	4600	1806	91.06	1829	95.20	1851	99.35	1873	103.52	1895	107.71	1937	116.16	1979	124.73	2020	133.44	2060	142.30	2100	151.32
54096	4800	1856	98.11	1879	102.41	1901	106.73	1923	111.06	1944	115.40	1985	124.14	2026	132.97	2066	141.92	2105	151.01	2144	160.23
56350	5000	1907	105.55	1930	110.03	1951	114.52	1973	119.01	1993	123.51	2034	132.56	2074	141.68	2113	150.89	2151	160.22	2189	169.67
58604	5200	1959	113.41	1981	118.07	2002	122.73	2023	127.39	2044	132.06	2084	141.43	2123	150.85	2161	160.35	2198	169.94	2235	179.63
60858	5400	2011	121.71	2032	126.54	2053	131.37	2074	136.21	2094	141.05	2134	150.75	2172	160.49	2209	170.28	2246	180.16	2282	190.11

~~Power rating (BHP) does not include drive losses.~~

Class I Blowers

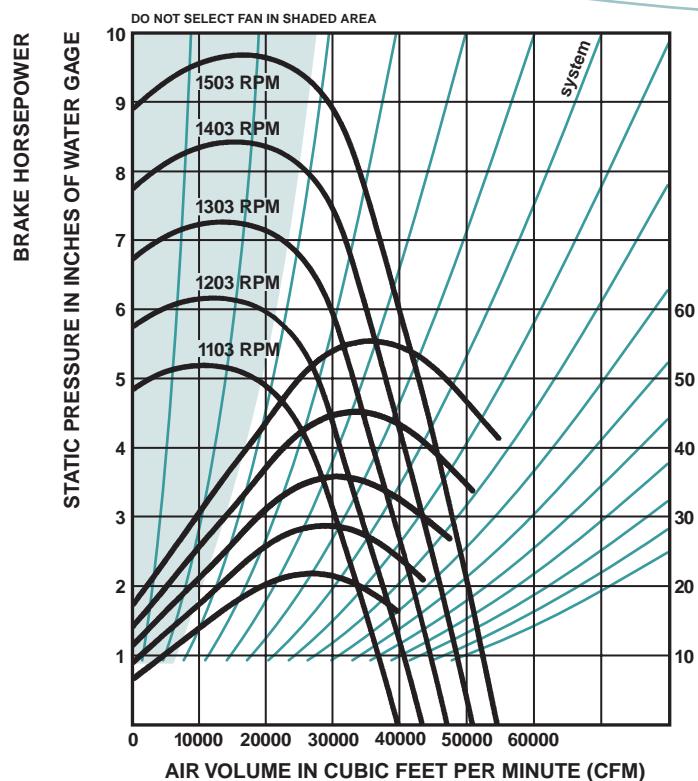
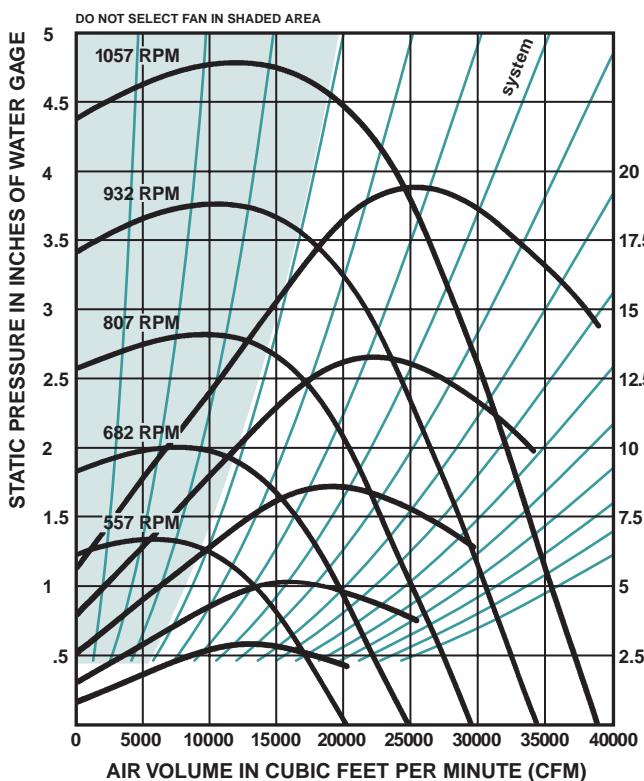
Class III Blowers

Performance shown is for Power Foil Blowers with outlet duct.

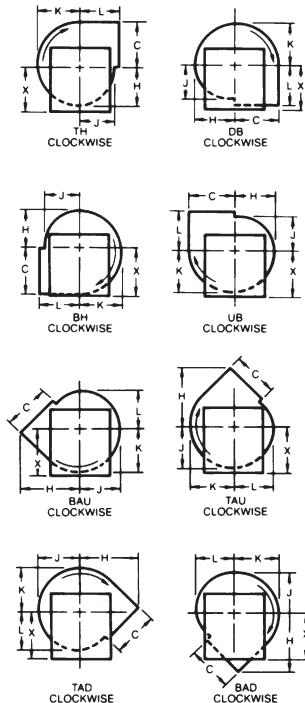
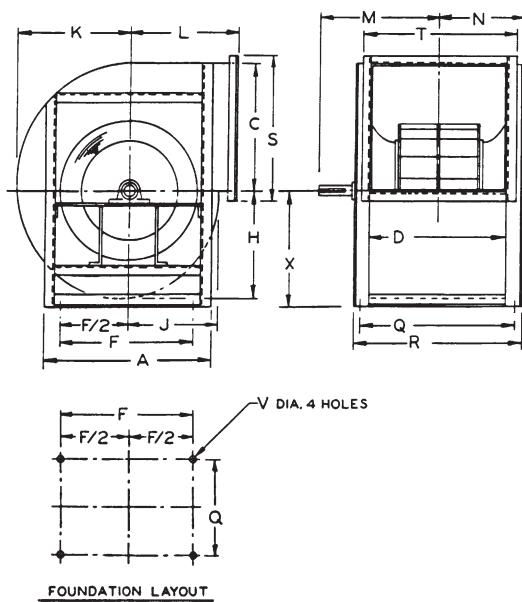
Class II Blowers

Class IV Blowers

PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #3



Arrangement #3 — DW DI — Class I & II

Model No.	Shaft Dia.	Shaft Ext. Dia. Keyway		Shaft Ext. Dia. Keyway		A	C	D	F	TH, DB, BH, UB Straight Discharge				TH, DB, BH, UB Angular Discharge				Class I	Class II	M	N	P	Q	R	S	T	U	V	W	TH DB BH UB BAU TAU TAD BAD X X		Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II				
		Class I	Class II	Class I	Class II					H	J	K	L	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	X								
AF330DW	33	29 1/16	1 1/2 x 1 1/4 x 6	27 1/8	5 1/8 x 5 1/8 x 6	45 1/8	35 1/8	46 1/8	34 1/8	27 1/8	22 1/2	30 1/8	25 1/4	43	28 1/8	33 1/2	24 1/8	33 1/4	25 11/16	—	49 1/8	51 1/8	40 1/8	51 1/8	—	7 1/8	—	29 1/8	25 1/8	38 1/8	32 1/8	35 1/2	30 7/8	26 1/8	30 7/8	1195	1300

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF365DW

TIP SPEED (FPM) = 9.556 x RPM

WHEEL DIAMETER = 36 $\frac{1}{2}$ "

OUTLET
13.788 Sq. Ft. Inside
39 $\frac{1}{4}$ " x 51" Outside

INLET
16.220 Sq. Ft. Inside
39" Dia. Outside

MAX. HP = 26.3 $(\frac{\text{RPM}}{1000})^3$

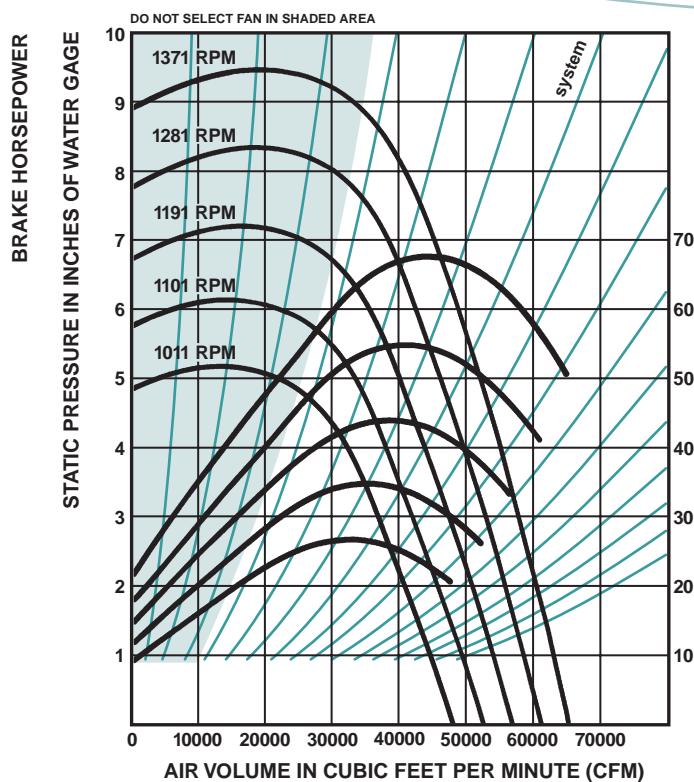
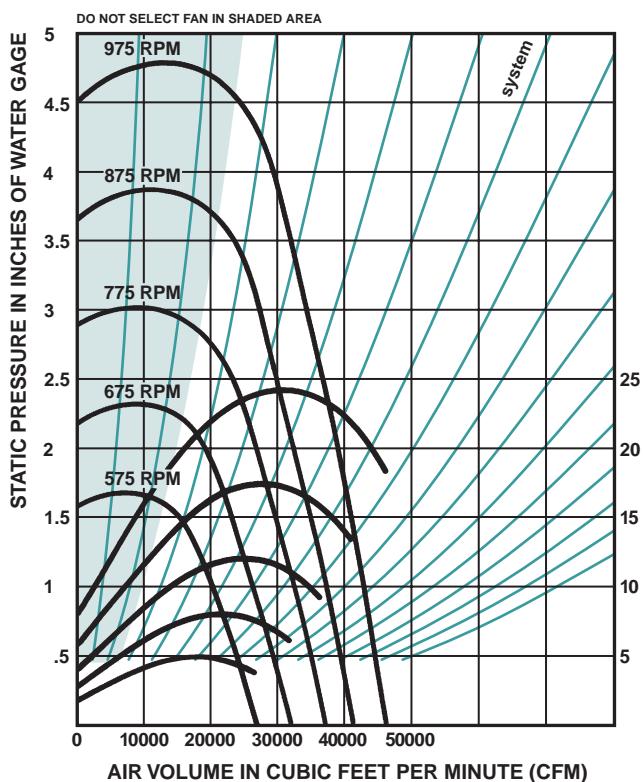
MAX. RPM
CL.1 1094
CL.2 1427
CL.3 1799

VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP																		
11030	800	299	0.68	326	0.91	353	1.15	378	1.40	403	1.66	428	1.94	—	—	—	—	—	—	—	—
12409	900	322	0.83	348	1.09	372	1.35	395	1.62	418	1.89	440	2.19	463	2.49	—	—	—	—	—	—
13788	1000	346	1.01	370	1.29	393	1.58	415	1.87	436	2.17	456	2.47	—	—	517	3.46	—	—	—	—
15167	1100	371	1.21	394	1.52	415	1.83	436	2.15	455	2.47	474	2.80	493	3.13	530	3.82	566	4.57	—	—
16546	1200	396	1.45	418	1.78	438	2.12	458	2.46	476	2.81	494	3.16	512	3.52	546	4.24	580	5.00	613	5.82
17924	1300	422	1.72	442	2.07	462	2.44	480	2.81	498	3.18	515	3.56	532	3.94	564	4.71	596	5.50	627	6.33
19303	1400	448	2.02	467	2.40	486	2.79	504	3.19	521	3.58	537	3.99	553	4.39	584	5.22	613	6.05	643	6.91
20682	1500	474	2.37	493	2.77	510	3.19	528	3.61	544	4.03	560	4.46	575	4.89	604	5.76	633	6.65	660	7.54
22061	1600	501	2.77	518	3.19	535	3.62	552	4.07	568	4.52	583	4.97	597	5.42	626	6.35	653	7.28	679	8.23
23440	1700	528	3.21	545	3.65	561	4.11	576	4.58	592	5.05	606	5.53	621	6.01	648	6.98	674	7.97	699	8.96
24818	1800	556	3.69	571	4.16	586	4.64	601	5.13	616	5.63	630	6.13	644	6.64	670	7.66	696	8.69	720	9.74
26197	1900	583	4.23	598	4.72	612	5.22	627	5.73	641	6.26	655	6.79	668	7.32	694	8.39	718	9.48	742	10.57
27576	2000	610	4.83	625	5.34	639	5.86	652	6.39	666	6.94	679	7.50	692	8.05	717	9.18	741	10.31	764	11.46
30334	2200	666	6.19	679	6.75	692	7.31	704	7.89	717	8.48	729	9.08	741	9.69	765	10.92	788	12.15	810	13.40
33091	2400	722	7.81	734	8.42	746	9.03	758	9.64	769	10.27	781	10.92	792	11.57	814	12.90	836	14.24	856	15.59
35849	2600	778	9.71	789	10.35	801	11.02	811	11.68	822	12.35	833	13.03	843	13.73	864	15.15	885	16.59	905	18.04
38606	2800	835	11.93	845	12.59	856	13.30	866	14.02	876	14.74	886	15.46	896	16.19	915	17.70	935	19.23	954	20.79
41364	3000	892	14.46	901	15.16	911	15.91	921	16.68	930	17.44	939	18.21	949	19.91	967	20.57	985	22.19	1003	23.84
44122	3200	949	17.32	958	18.09	967	18.85	976	19.67	985	20.50	994	21.31	1002	22.13	1020	23.79	1037	25.50	1054	27.24
46879	3400	1005	20.52	1015	21.40	1023	22.18	1031	23.03	1040	23.91	1048	24.78	1056	25.65	1073	27.39	1089	29.17	1105	31.00

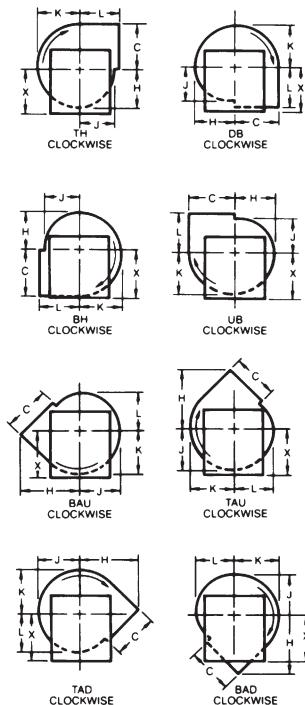
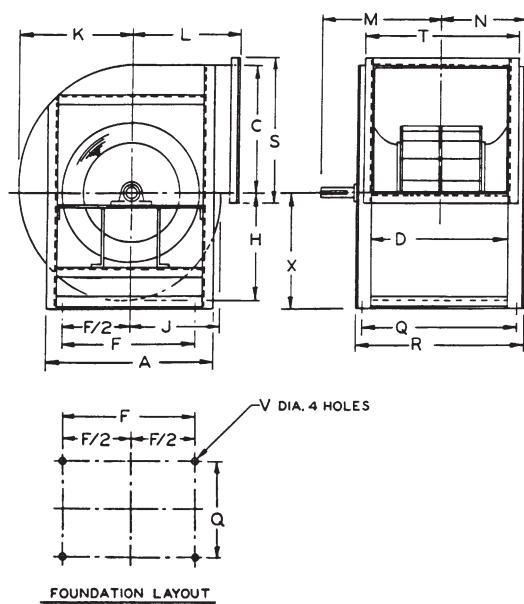
VOL. CFM	VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17924	1300	658	7.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19303	1400	672	7.79	729	9.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20682	1500	688	8.46	741	10.40	795	12.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22061	1600	705	9.19	756	11.17	807	13.29	857	15.56	—	—	—	—	—	—	—	—	—	—	—	—
23440	1700	724	9.97	773	12.03	820	14.18	868	16.48	915	18.90	—	—	—	—	—	—	—	—	—	—
24818	1800	744	10.80	790	12.95	836	15.16	881	17.48	925	19.94	970	22.52	—	—	—	—	—	—	—	—
26197	1900	765	11.68	809	13.93	853	16.22	896	18.59	938	21.07	981	23.68	1023	26.41	—	—	—	—	—	—
27576	2000	786	12.62	829	14.96	871	17.35	912	19.78	953	22.30	993	24.94	1033	27.70	1073	30.56	—	—	—	—
30334	2200	831	14.65	871	17.20	910	19.79	948	22.40	986	25.06	1023	27.78	1060	30.60	1096	33.52	1133	36.56	1169	39.69
33091	2400	877	16.94	915	19.69	952	22.47	988	25.29	1023	28.14	1058	31.01	1092	33.94	1126	36.94	1159	40.04	1193	43.23
35849	2600	924	19.50	961	22.44	996	25.42	1030	28.44	1063	31.49	1096	34.57	1128	37.67	1160	40.81	1191	44.00	1222	47.27
38606	2800	972	22.35	1007	25.50	1041	28.67	1074	31.89	1106	35.14	1137	38.42	1167	41.72	1197	45.05	1227	48.41	1256	51.80
41364	3000	1021	25.51	1055	28.86	1088	32.24	1119	35.65	1150	39.10	1179	42.58	1208	46.08	1237	49.62	1265	53.17	1293	56.74
44122	3200	1071	29.00	1104	32.56	1135	36.15	1165	39.76	1195	43.40	1223	47.07	1251	50.78	1279	54.51	1306	58.27	1332	62.05
46879	3400	1121	32.85	1153	36.61	1183	40.41	1213	44.22	1241	48.06	1269	51.93	1296	55.83	1322	59.76	1348	63.72	1373	67.71
49637	3600	1173	37.09	1203	41.04	1232	45.04	1261	49.07	1288	53.11	1315	57.18	1341	61.28	1366	65.40	1392	69.56	1416	73.74
52394	3800	1225	41.75	1253	45.88	1282	50.07	1309	53.31	1336	58.56	1362	62.84	1387	67.13	1412	71.45	1436	75.80	1460	80.18
55152	4000	1277	46.86	1305	51.15	1332	55.53	1358	59.97	1384	64.43	1410	68.91	1434	73.41	1458	77.94	1482	82.48	1505	87.05
57910	4200	1330	52.44	1356	56.89	1383	61.45	1408	66.07	1433	70.74	1458	75.43	1482	80.14	1505	84.87	1528	89.61	1551	94.38
60667	4400	1384	58.52	1409	63.12	1434	67.84	1459	72.65	1483	77.52	1507	82.42	1530	87.34	1553	92.27	1575	97.22	1597	102.19

VOL. CFM	OUTLET VEL. FPM	7 S.P.		7.5 S.P.		8 S.P.		8.5 S.P.		9 S.P.		10 S.P.		11 S.P.		12 S.P.		13 S.P.		14 S.P.	

PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #3



Arrangement #3 — DW DI — Class I & II

Model No.	Shaft Dia.	Shaft Ext. Dia. Keyway		Shaft Ext. Dia. Keyway		A	C	D	F	TH, DB, BH, UB Straight Discharge				TH, DB, BH, UB Angular Discharge				Class I	Class II	M	N	P	Q	R	S	T	U	V	W	TH DB BH UB BAU TAU TAD BAD		Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II				
		2 9/16	1 1/2 x 1/4 x 6	2 7/16	5/8 x 5/16 x 6					49 1/2	30	247/8	34 1/8	28 1/8	47 7/8	32	37 7/8	27	36 5/8	28	—	53 3/4	56	44 1/4	56	—	7 1/8	—	32	28 1/8	42 1/4	36 1/8	39 1/8	34	29	34	1465	1625
AF365DW	36 1/2	29 9/16	1 1/2 x 1/4 x 6	2 7/16	5/8 x 5/16 x 6	49 1/2	39 1/4	51	38 1/2	30	247/8	34 1/8	28 1/8	47 7/8	32	37 7/8	27	36 5/8	28	—	53 3/4	56	44 1/4	56	—	7 1/8	—	32	28 1/8	42 1/4	36 1/8	39 1/8	34	29	34	1465	1625

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF402DW

TIP SPEED (FPM) = 10.54 x RPM

WHEEL DIAMETER = 40 1/4"

OUTLET
16.766 Sq. Ft. Inside
43 1/4" x 56 5/8" Outside

MAX. HP = 42.9 $\frac{(\text{RPM})^3}{1000}$

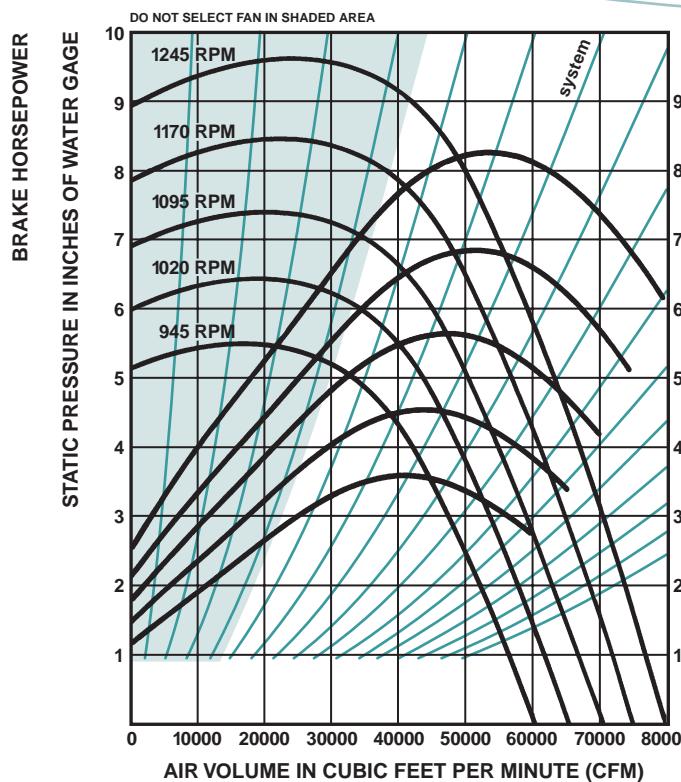
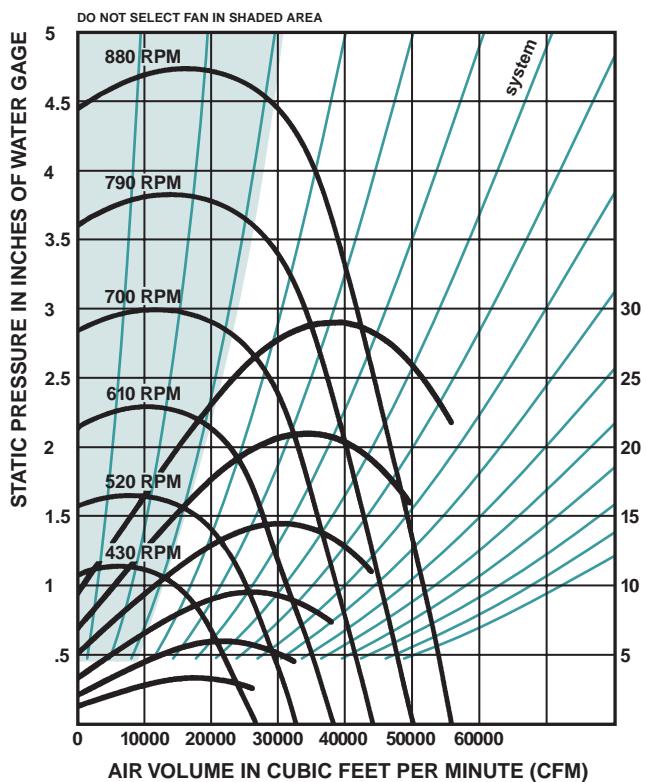
INLET
19.70 Sq. Ft. Inside
43" Dia. Outside

MAX. RPM
CL.1 993
CL.2 1294
CL.3 1631

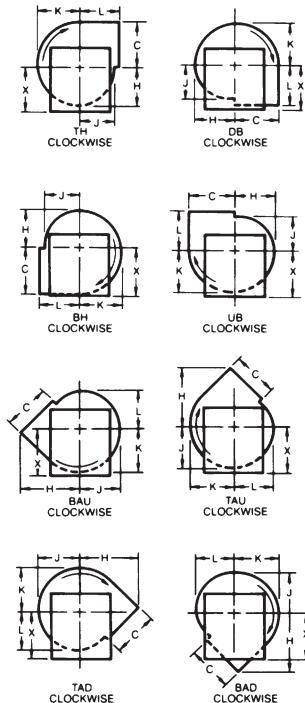
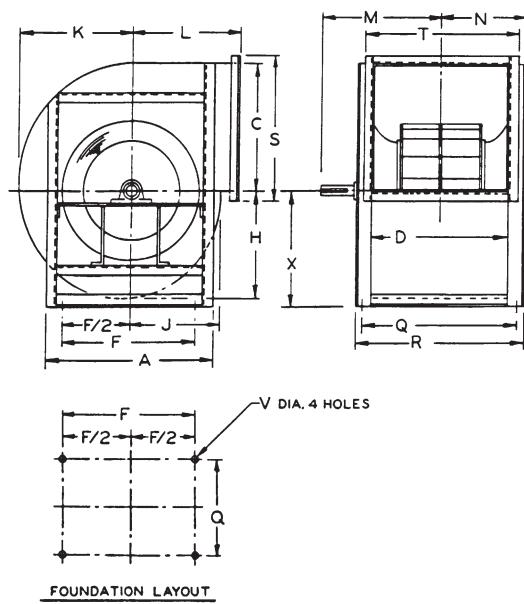
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.		
		RPM	BHP																			
13413	800	271	0.82	296	1.11	320	1.40	343	1.70	366	2.02	388	2.36	—	—	—	—	—	—	—	—	
15089	900	292	1.01	315	1.32	337	1.64	358	1.97	379	2.30	399	2.66	420	3.03	—	—	—	—	—	—	—
16766	1000	314	1.22	336	1.57	356	1.92	376	2.27	395	2.64	414	3.01	432	3.39	469	4.21	—	—	—	—	—
18443	1100	336	1.47	357	1.85	377	2.23	395	2.61	413	3.01	430	3.41	447	3.81	481	4.65	514	5.56	—	—	
20119	1200	359	1.76	379	2.16	397	2.58	415	2.99	432	3.42	448	3.84	464	4.28	495	5.16	526	6.09	556	7.07	
21796	1300	382	2.09	401	2.52	419	2.96	436	3.41	452	3.86	467	4.32	482	4.79	511	5.73	540	6.69	568	7.69	
23472	1400	406	2.46	424	2.92	441	3.40	457	3.88	472	4.36	487	4.85	501	5.34	529	6.34	556	7.36	583	8.40	
25149	1500	430	2.89	447	3.37	463	3.88	478	4.39	493	4.90	507	5.42	521	5.94	548	7.00	574	8.08	599	9.17	
26826	1600	454	3.36	470	3.88	486	4.41	500	4.95	515	5.49	528	6.04	542	6.60	567	7.72	592	8.86	616	10.01	
28502	1700	479	3.90	494	4.43	508	4.99	523	5.56	537	6.14	550	6.72	563	7.31	587	8.49	611	9.69	634	10.90	
30179	1800	504	4.49	518	5.05	532	5.64	545	6.24	559	6.85	572	7.46	584	8.07	608	9.31	631	10.57	653	11.85	
31855	1900	529	5.15	542	5.74	555	6.35	568	6.97	581	7.61	594	8.26	606	8.90	629	10.20	651	11.52	673	12.86	
33532	2000	554	5.87	566	6.49	579	7.12	592	7.77	604	8.44	616	9.12	628	9.79	650	11.16	672	12.54	693	13.93	
36885	2200	604	7.52	616	8.21	627	8.89	639	9.59	650	10.31	661	11.04	672	11.78	694	13.28	714	14.78	734	16.29	
40238	2400	655	9.49	666	10.23	676	10.98	687	11.73	697	12.49	708	13.28	718	14.07	738	15.69	758	17.32	777	18.95	
43592	2600	706	11.81	716	12.59	726	13.40	736	14.21	745	15.02	755	15.85	765	16.70	784	18.41	842	20.18	820	21.94	
46945	2800	757	14.51	766	15.31	776	16.18	785	17.05	794	17.92	803	18.80	812	19.69	830	21.52	848	23.39	865	25.28	
50298	3000	809	17.59	817	18.43	826	19.34	835	20.28	843	21.21	852	22.14	860	23.08	877	25.01	894	26.99	910	28.99	
53651	3200	860	21.06	869	22.00	876	22.93	885	23.93	893	24.92	901	25.92	909	26.91	925	28.93	940	31.00	956	33.12	
57004	3400	912	24.96	920	26.03	927	26.97	935	28.01	943	29.08	951	30.13	958	31.19	973	33.31	988	35.48	1002	37.69	

VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.		
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
21796	1300	596	8.76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
23472	1400	609	9.48	661	11.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
25149	1500	623	10.29	672	12.64	721	15.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
26826	1600	639	11.17	686	13.59	731	16.16	777	18.92	—	—	—	—	—	—	—	—	—	—	—	—	
28502	1700	657	12.13	701	14.63	744	17.25	787	20.03	830	22.98	—	—	—	—	—	—	—	—	—	—	—
30179	1800	675	13.14	717	15.75	758	18.43	799	21.26	839	24.25	880	27.38	—	—	—	—	—	—	—	—	—
31855	1900	694	14.21	734	16.94	773	19.72	812	22.60	851	25.62	889	28.80	928	32.11	—	—	—	—	—	—	—
33532	2000	713	15.34	752	18.20	790	21.09	827	24.05	864	27.12	901	30.33	937	33.68	973	37.17	1027	44.46	1061	48.26	
36885	2200	753	17.82	790	20.92	826	24.06	860	27.24	894	30.47	928	33.78	961	37.21	994	40.77	—	—	—	—	
40238	2400	795	20.60	830	23.94	863	27.33	896	30.75	928	34.21	959	37.71	990	41.28	1021	44.92	1051	48.68	1082	52.57	
43592	2600	838	23.72	871	27.29	903	30.92	934	34.59	964	38.30	994	42.04	1023	45.81	1052	49.63	1080	53.51	1109	57.48	
46945	2800	881	27.18	914	31.01	944	34.87	974	38.78	1003	42.73	1031	46.72	1058	50.74	1086	54.78	1112	58.86	1139	62.99	
50298	3000	926	31.02	957	35.10	986	39.21	1015	43.35	1043	47.54	1069	51.77	1096	56.04	1122	60.33	1147	64.65	1172	69.00	
53651	3200	971	35.26	1001	39.59	1029	43.96	1057	48.35	1084	52.77	1109	57.24	1135	61.75	1160	66.29	1184	70.86	1208	75.54	
57004	3400	1017	39.95	1045	44.52	1073	49.14	1100	53.78	1125	58.45	1150	63.15	1175	67.90	1199	72.68	1222	77.49	1245	82.33	
60358	3600	1063	45.11	1091	49.91	1117	54.77	1143	59.67	1168	64.59	1192	69.54	1216	74.52	1239	79.53	1262	84.59	1284	89.67	
63711	3800	1110	50.77	1137	55.79	1162	60.89	1187	66.04	1211	71.21	1235	76.41	1258	81.64	1280	86.89	1302	92.18	1324	97.50	
67064	4000	1158	56.98	1183	62.20	1208	67.53	1232	72.92	1255	78.35	1278	83.80	1301	89.28	1322	94.77	1344	100.30	1365	105.86	
70417	4200	1206	63.77	1230	69.18	1254	74.72	1277	80.35	1300	86.03	1322	91.73	1344	97.46	1365	103.20	1386	108.97	1406	114.77	
73770	4400	1255	71.16	1278	76.75	1300	82.50	1323	88.35	1345	94.27	1366	100.22	1388	106.20	1408	112.20	1429	118.22	1449	124.26	
77124	4600	1310	140.67	1529	147.01	1548	153.37	1566	159.76	1584	166.18	1620	179.11	1654	192.13	1688	205.24	1722	218.42	1755	231.66	
80477	4800	1553	151.64	1572	158.22	1590	164.83	1608	171.46	1625	178.11	1660	191.51	1694	205.01	1727	218.60	1760	232.28	1792	246.03	
83830	5000	1597	163.25	1615	170.08	1632	176.94	1650	183.81	1667	190.71	1701	204.58	1734	218.55	1766	232.62	1798	246.79	1830	261.03	
87183	5200	1640	175.54	1658	182.62	1675	189.															

PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #3



Arrangement #3 — DW DI — Class I & II

Model No.	Shaft Dia. Whe. Dia.	Shaft Ext. Dia. Keyway		Shaft Ext. Dia. Keyway		A	C	D	F	TH, DB, BH, UB Straight Discharge				TH, DB, BH, UB Angular Discharge				Class I	Class II	M	N	P	Q	R	S	T	U	V	W	X		X		Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II			
		Class I	Class II	Class I	Class II					H	J	K	L	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	X									
		29/16	1 1/2 x 1 1/4 x 7	27/16	5 1/8 x 5 15/16 x 7	54 1/2	43 1/4	56 1/8	42 1/2	33	27 1/2	37 1/8	30 1/4	52 1/8	35 1/4	40 1/4	29 1/4	40 1/4	40 1/4	31 15/16	—	60 1/2	62 5/8	49 1/4	62 1/8	—	1 1/8	—	35 1/2	30 1/4	47 1/4	40 1/8	43 1/4	37 3/4	32 1/4	37 3/4	1975	2180
AF402DW	40 1/4	29/16	1 1/2 x 1 1/4 x 7	27/16	5 1/8 x 5 15/16 x 7	54 1/2	43 1/4	56 1/8	42 1/2	33	27 1/2	37 1/8	30 1/4	52 1/8	35 1/4	40 1/4	29 1/4	40 1/4	40 1/4	31 15/16	—	60 1/2	62 5/8	49 1/4	62 1/8	—	1 1/8	—	35 1/2	30 1/4	47 1/4	40 1/8	43 1/4	37 3/4	32 1/4	37 3/4	1975	2180

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF445DW

TIP SPEED (FPM) = 11.65 x RPM

WHEEL DIAMETER = 44½"

OUTLET
20.494 Sq. Ft. Inside
47¾" x 62⅜" Outside

MAX. HP = 70.8 $\frac{(\text{RPM})^3}{1000}$

INLET
24.10 Sq. Ft. Inside
47½" Dia. Outside

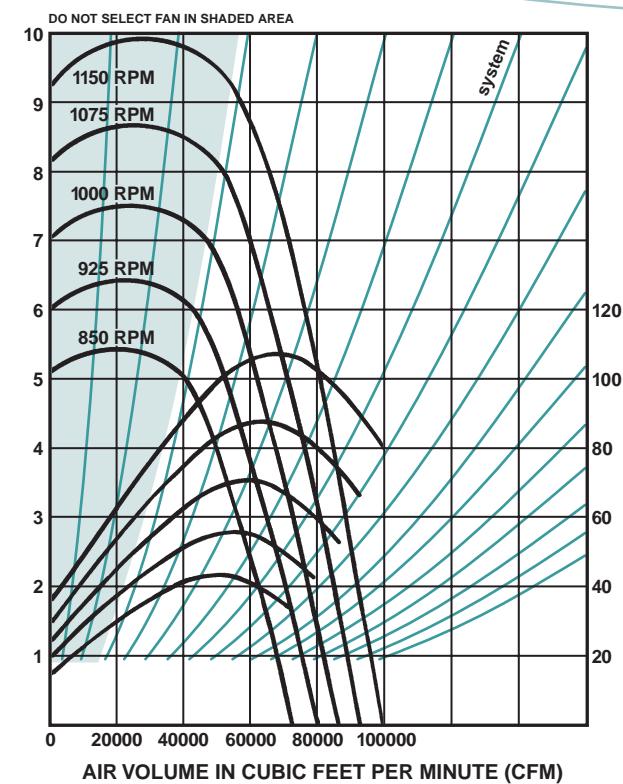
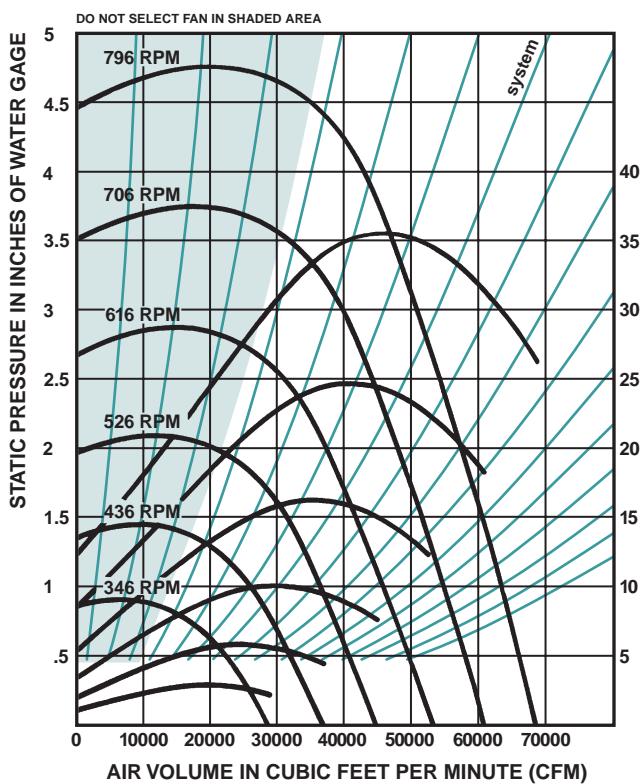
MAX. RPM
CL.1 898
CL.2 1171
CL.3 1475

VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP																		
16395	800	245	1.01	268	1.35	289	1.71	310	2.08	331	2.47	351	2.89	—	—	—	—	—	—	—	—
18445	900	264	1.23	285	1.62	305	2.01	324	2.41	343	2.82	361	3.25	380	3.70	—	—	—	—	—	—
20494	1000	284	1.50	304	1.92	322	2.34	340	2.78	357	3.22	374	3.68	391	4.14	424	5.15	—	—	—	—
22543	1100	304	1.80	323	2.26	341	2.72	357	3.20	373	3.68	389	4.16	404	4.66	435	5.69	465	6.79	—	—
24593	1200	325	2.15	343	2.65	359	3.15	375	3.66	391	4.18	405	4.70	420	5.23	448	6.31	476	7.44	503	8.64
26642	1300	346	2.55	363	3.08	379	3.62	394	4.17	408	4.72	422	5.28	436	5.85	463	7.00	489	8.18	514	9.40
28692	1400	367	3.01	383	3.57	399	4.15	413	4.74	427	5.33	440	5.92	453	6.53	479	7.75	503	8.99	527	10.27
30741	1500	389	3.53	404	4.12	419	4.74	433	5.36	446	5.99	459	6.62	471	7.26	496	8.56	519	9.88	542	11.21
32790	1600	411	4.11	425	4.74	439	5.39	453	6.05	466	6.72	478	7.39	490	8.06	513	9.43	535	10.83	557	12.23
34840	1700	433	4.77	447	5.42	460	6.10	473	6.80	485	7.51	497	8.22	509	8.93	531	10.37	553	11.84	574	13.32
36889	1800	456	5.49	468	6.18	481	6.89	493	7.63	505	8.37	517	9.12	528	9.87	550	11.39	571	12.92	591	14.48
38939	1900	478	6.29	490	7.02	502	7.76	514	8.52	526	9.30	537	10.09	548	10.88	569	12.47	589	14.08	608	15.72
40988	2000	501	7.18	512	7.94	524	8.71	535	9.50	546	10.32	557	11.14	568	11.97	588	13.64	608	15.32	627	17.03
45087	2200	546	9.20	557	10.04	567	10.87	578	11.73	588	12.60	598	13.50	608	14.40	628	16.23	646	18.06	664	19.91
49186	2400	592	11.60	602	12.51	612	13.42	621	14.34	631	15.27	640	16.23	650	17.20	668	19.17	685	21.17	702	23.17
53284	2600	638	14.44	647	15.39	657	16.38	665	17.36	674	18.36	683	19.37	692	20.41	709	22.52	726	24.66	742	26.82
57383	2800	685	17.74	693	18.71	702	19.78	710	20.84	718	21.90	726	22.98	735	24.07	751	26.30	767	28.59	782	30.90
61482	3000	732	21.50	739	22.53	747	23.64	755	24.79	763	25.93	770	27.07	778	28.22	793	30.57	808	32.99	823	35.44
65581	3200	778	25.74	786	26.89	793	28.03	800	29.24	808	30.47	815	31.68	822	32.89	836	35.36	850	37.90	864	40.48
69680	3400	825	30.51	832	31.81	839	32.97	846	34.24	853	35.54	860	36.83	867	38.12	880	40.71	893	43.36	907	46.07

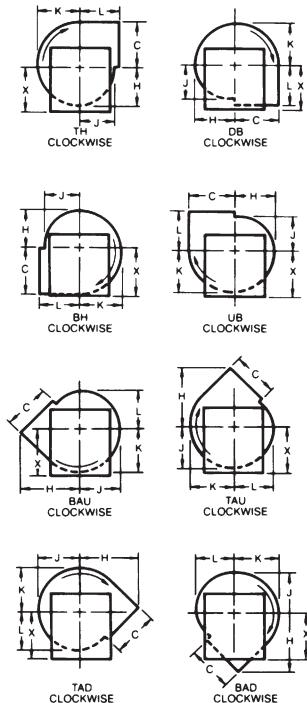
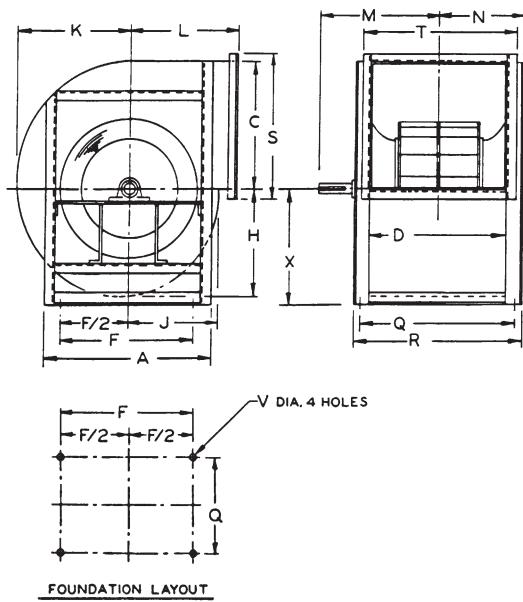
VOL. CFM	VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP																
26642	1300	539	10.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28692	1400	551	11.59	598	14.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30741	1500	564	12.58	608	15.45	652	18.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32790	1600	578	13.66	620	16.61	662	19.76	703	23.12	—	—	—	—	—	—	—	—	—	—	—	—
34840	1700	594	14.82	634	17.88	673	21.08	712	24.49	750	28.09	—	—	—	—	—	—	—	—	—	—
36889	1800	610	16.06	648	19.25	686	22.53	722	25.99	759	29.64	796	33.47	—	—	—	—	—	—	—	—
38939	1900	627	17.36	664	20.70	700	24.11	735	27.63	770	31.32	804	35.20	839	39.25	—	—	—	—	—	—
40988	2000	645	18.75	680	22.24	715	25.78	748	29.40	781	33.15	815	37.07	848	41.17	881	45.43	899	49.83	929	54.34
45087	2200	681	21.78	715	25.57	747	29.41	778	33.30	809	37.25	839	41.29	869	45.48	—	—	—	—	—	—
49186	2400	719	25.18	751	29.26	781	33.40	810	37.59	839	41.82	868	46.10	896	50.45	923	54.91	951	59.51	979	64.25
53284	2600	758	28.99	788	33.36	817	37.79	845	42.28	872	46.81	899	51.38	925	56.00	951	60.66	977	65.41	1003	70.26
57383	2800	797	33.22	826	37.90	854	42.62	881	47.40	907	52.23	932	57.10	957	62.02	982	66.96	1006	71.95	1030	77.00
61482	3000	837	37.92	865	42.90	892	47.92	918	52.99	943	58.11	967	63.29	991	68.50	1015	73.75	1038	79.03	1060	84.34
65581	3200	878	43.10	905	48.40	931	53.73	956	59.10	980	64.51	1003	69.97	1026	75.48	1049	81.03	1071	86.61	1093	92.23
69680	3400	920	48.83	946	54.42	971	60.06	995	65.73	1018	71.44	1041	77.19	1063	82.99	1084	88.83	1106	94.72	1126	100.64
73778	3600	962	55.13	987	61.00	1011	66.95	1034	72.93	1057	78.95	1078	85.00	1100	91.08	1121	97.22	1141	103.39	1162	109.61
77877	3800	1004	62.06	1028	68.19	1051	74.43	1074	80.72	1096	87.05	1117	93.40	1138	99.79	1158	106.21	1178	112.67	1198	119.18
81976	4000	1048	69.65	1070	76.03	1092	82.54	1114	89.14	1135	95.77	1156	102.43	1176	109.12	1196	115.84	1215	122.60	1234	129.39
86075	4200	1091	77.95	1113	84.56	1134	91.33	1155	98.21	1176	105.15	1196	112.13	1215	119.12	1235	126.15	1254	133.20	1272	140.29
90174	4400	1135	86.98	1156	93.82	1176	100.84	1196	107.99	1216	115.22	1236	122.50	1255	129.81	1274	137.15	1292	144.51	1310	151.89

VOL. CFM	OUTLET VEL. FPM	7 S.P.		7.5 S.P.		8 S.P.		8.5 S.P.		9 S.P.		10 S.P.		11 S.P.		12 S.P.		13 S.P.		14 S.P.	
		RPM	BHP	RPM	BHP</																

PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #3



Arrangement #3 — DW DI — Class I & II

Model No.	Shaft Ext. Dia.	Shaft Ext. Dia. Keyway		Shaft Ext. Dia. Keyway		A	C	D	F	TH, DB, BH, UB Straight Discharge				TH, DB, BH, UB Angular Discharge				Class I	Class II	TH, DB, BH, UB				X	X	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II					
		Class I		Class II						H	J	K	L	H	J	K	L	M	N	P	Q	R	S	T	U	V	W					
		2 1/16	5/8 x 5/16 x 7	2 7/16	5/8 x 5/16 x 7	59	47 3/4	62 1/8	47	36 1/8	30 1/4	41 1/8	34	57 1/2	38 1/8	45	32 1/4	43 1/8	43 1/8	34 1/8	—	65 1/8	68 1/8	53 1/8	68 1/8	—	38 1/8	34	51 1/4	43 1/8	47 1/2	41 1/4
AF445DW	4 1/2	2 1/16	5/8 x 5/16 x 7	2 7/16	5/8 x 5/16 x 7																										2325	2615

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF490DW

TIP SPEED (FPM) = 12.83 x RPM

WHEEL DIAMETER = 49"

OUTLET $\frac{24.85 \text{ Sq. Ft. Inside}}{52\frac{5}{8}'' \times 69\frac{1}{8}'' \text{ Outside}}$

MAX. HP = 114.7 $\frac{(\text{RPM})^3}{1000}$

INLET $\frac{29.22 \text{ Sq. Ft. Inside}}{52\frac{1}{4}'' \text{ Dia. Outside}}$

MAX. RPM
CL.1 815
CL.2 1063
CL.3 1340

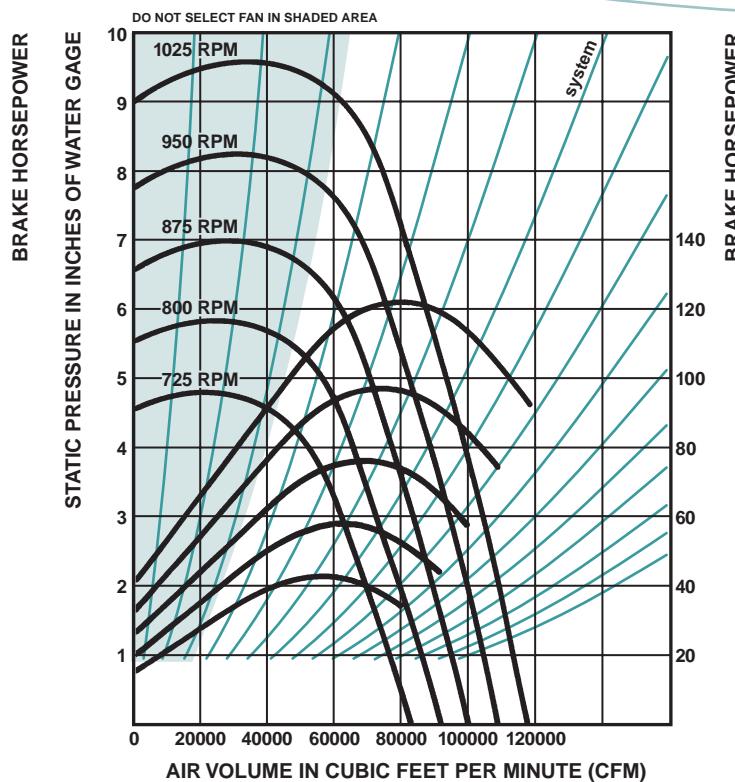
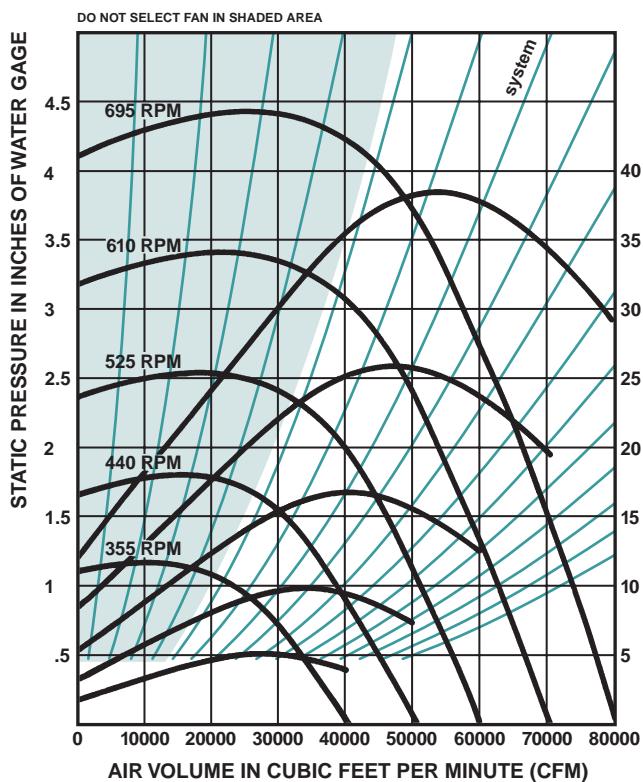
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.			
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP												
19880	800	223	1.22	243	1.64	263	2.07	282	2.52	300	2.99	319	3.50	—	—	—	—	—	—	—	—		
22365	900	240	1.50	259	1.96	277	2.43	294	2.92	311	3.42	328	3.94	345	4.49	—	—	—	—	—	—	—	
24850	1000	258	1.81	276	2.32	293	2.84	309	3.37	324	3.91	340	4.46	5.02	385	6.24	—	—	—	—	—	—	—
27335	1100	276	2.18	293	2.74	309	3.30	324	3.88	339	4.46	353	5.05	367	5.64	395	6.89	422	8.24	—	—	—	
29820	1200	295	2.61	311	3.21	326	3.82	341	4.43	355	5.06	368	5.70	381	6.34	407	7.65	432	9.02	457	10.48	—	—
32305	1300	314	3.09	329	3.74	344	4.39	358	5.06	371	5.73	384	6.41	396	7.09	420	8.49	444	9.91	467	11.40	—	—
34790	1400	334	3.65	348	4.33	362	5.04	375	5.74	388	6.46	400	7.18	412	7.92	435	9.40	457	10.90	479	12.45	—	—
37275	1500	353	4.28	367	5.00	380	5.75	393	6.50	405	7.26	417	8.03	428	8.81	450	10.38	471	11.98	492	13.60	—	—
39760	1600	373	4.99	386	5.74	399	6.53	411	7.34	423	8.14	434	8.96	445	9.78	466	11.44	486	13.13	506	14.83	—	—
42245	1700	393	5.78	406	6.57	418	7.40	429	8.25	441	9.10	452	9.96	462	10.83	483	12.58	502	14.36	521	16.15	—	—
44730	1800	414	6.66	425	7.49	437	8.36	448	9.25	459	10.15	469	11.05	480	11.97	499	13.80	518	15.67	536	17.56	—	—
47215	1900	434	7.63	445	8.51	456	9.41	467	10.33	477	11.28	488	12.23	498	13.19	517	15.12	535	17.08	553	19.05	—	—
49700	2000	455	8.70	465	9.62	476	10.56	486	11.52	496	12.51	506	13.51	516	14.52	534	16.54	552	18.58	569	20.65	—	—
54670	2200	496	11.15	506	12.17	515	13.18	525	14.22	534	15.28	543	16.37	552	17.46	570	19.67	587	21.90	603	24.14	—	—
59640	2400	538	14.07	547	15.17	556	16.27	564	17.38	573	18.52	581	19.68	590	20.86	606	23.25	623	25.66	638	28.09	—	—
64610	2600	580	17.51	588	18.66	596	19.86	604	21.05	612	22.26	620	23.49	628	24.74	644	27.30	659	29.90	674	32.52	—	—
69580	2800	622	21.50	629	22.68	637	23.98	645	25.27	652	26.56	660	27.86	667	29.18	682	31.89	696	34.66	710	37.46	—	—
74550	3000	665	26.07	671	27.32	678	28.67	686	30.06	693	31.44	700	32.82	707	34.21	720	37.07	734	39.99	747	42.97	—	—
79520	3200	707	31.21	713	32.60	720	33.98	727	35.46	734	36.94	740	38.41	747	39.88	760	42.88	772	45.95	785	49.08	—	—
84490	3400	749	36.99	756	38.57	762	39.98	768	41.51	774	43.09	781	44.66	787	46.22	799	49.37	811	52.58	823	55.86	—	—

VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.				
		RPM	BHP																					
32305	1300	490	12.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
34790	1400	500	14.05	543	17.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
37275	1500	512	15.25	552	18.74	592	22.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
39760	1600	525	16.56	563	20.14	601	23.96	638	28.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
42245	1700	539	17.97	576	21.67	611	25.56	646	29.69	682	34.06	—	—	—	—	—	—	—	—	—	—	—	—	—
44730	1800	554	19.47	589	23.34	623	27.32	656	31.51	689	35.94	723	40.58	—	—	—	—	—	—	—	—	—	—	—
47215	1900	570	21.05	603	25.10	635	29.23	667	33.50	699	37.97	730	42.68	762	47.59	—	—	—	—	—	—	—	—	—
49700	2000	586	22.74	618	26.97	649	31.26	679	35.65	710	40.19	740	44.95	770	49.92	800	55.08	817	60.42	844	65.88	871	71.53	
54670	2200	619	26.41	649	31.00	678	35.66	707	40.37	734	45.16	762	50.07	789	55.14	—	—	—	—	—	—	—	—	—
59640	2400	653	30.53	682	35.48	709	40.50	736	45.58	762	50.71	788	55.89	813	61.17	839	66.58	864	72.15	889	77.91	—	—	
64610	2600	688	35.15	716	40.45	742	45.82	767	51.26	792	56.76	816	62.30	840	67.89	864	73.55	887	79.31	911	85.19	—	—	
69580	2800	724	40.28	750	45.95	776	51.68	800	57.47	824	63.33	847	69.24	869	75.19	892	81.19	914	87.24	936	93.36	—	—	
74550	3000	761	45.97	786	52.02	810	58.11	834	64.25	856	70.46	878	76.73	900	83.05	921	89.42	942	95.82	963	102.26	—	—	
79520	3200	798	52.26	822	58.68	846	65.15	868	71.65	890	78.21	911	84.83	932	91.51	952	98.24	973	105.01	992	111.82	—	—	
84490	3400	835	59.20	859	65.98	881	72.82	903	79.70	924	86.62	945	93.60	965	100.63	985	107.71	1004	114.84	1023	122.02	—	—	
89460	3600	874	66.85	896	73.96	918	81.17	939	88.43	960	95.72	979	103.06	999	110.44	1018	117.87	1037	125.36	1055	132.89	—	—	
94430	3800	912	75.25	934	82.68	955	90.24	975	97.88	995	105.54	1014	113.25	1033	120.99	1018	128.78	1070	136.61	1088	144.50	—	—	
99400	4000	951	84.45	972	92.18	992	100.08	1012	108.08	1031	116.12	1050	124.20	1068	132.31	1086	140.46	1104	148.65	1121	156.89	—	—	
104370	4200	991	94.51	1010	102.52	1030	110.74	1049	119.08	1068	127.49	1086	135.95	1104	144.43	1121	152.95	1138	161.50	1155	170.10	—	—	
109340	4400	1031	105.46	1049	113.75	1068	122.26	1087	130.94	1105	139.71	1122	148.53	1140	157.40	1157	166.29	1174	175.21	1190	184.17	—	—	

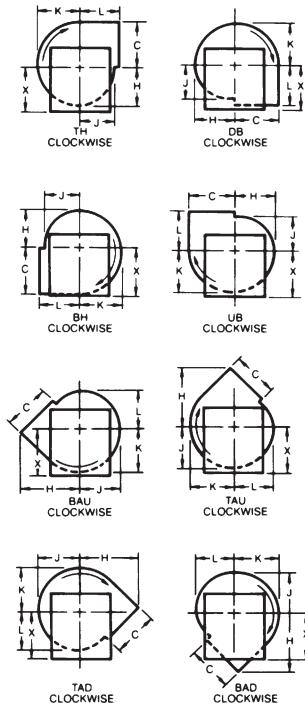
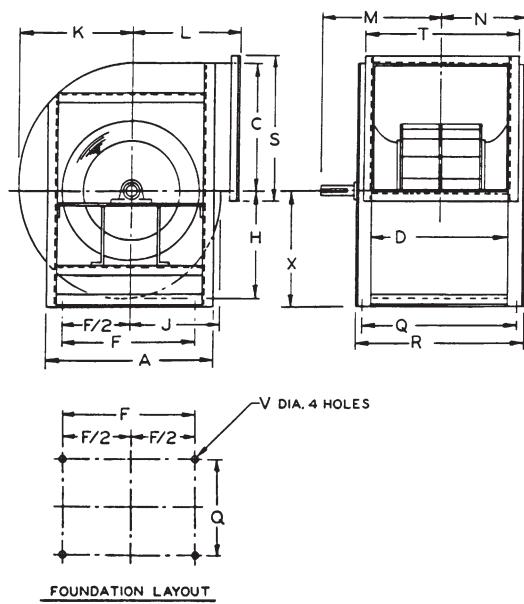
VOL. CFM	OUTLET VEL. FPM	7 S.P.		7.5 S.P.		8 S.P.		8.5 S.P.		9 S.P.		10 S.P.		11 S.P.		12 S.P.		13 S.P.		14 S.P.	
RPM	BHP																				

<tbl_r cells="11" ix="1" max

PEERLESS BLOWERS POWERFOIL BLOWERS



Arrangement #3



Arrangement #3 — DW DI — Class I & II

Model No.	Shaft Ext. Dia.	Keyway	Shaft Ext. Dia. Keyway		A	C	D	F	TH, DB, BH, UB Straight Discharge				TH, DB, BH, UB Angular Discharge				Class I	Class II	M	N	P	Q	R	S	T	U	V	W	TH DB BH UB BAU TAU TAD BAD		Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II					
			Class I	Class II					H	J	K	L	H	J	K	L	M	M	N	P	Q	R	S	T	U	V	W	X	X								
	49	2 11/16	5/8 x 5/16 x 8	2 15/16	3/4 x 3/8 x 8	63 3/4	52 1/2	69 1/8	51 1/4	40 1/4	33 1/2	45 1/4	37 1/4	63 1/4	42 1/8	49 9/4	36 1/4	48 1/4	48 1/4	37 1/16	—	72 1/8	72 1/8	56 1/8	75 1/8	—	1 1/8	—	42 1/8	37 1/4	56 1/8	48 1/4	52 1/4	45 3/8	38 1/8	45 1/8	3005
AF490DW																																					

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