PEERLESS®
BLOWERS

Powerfoil Blowers

Non-Overloading Blowers

Your Clean Air Source!

PEERLESS BLOWERS

AFFILIATE OF HBD INDUSTRIES, INC.

"POWERFOIL" NON-OVERLOADING BLOWERS
HIGH QUALITY... HIGH EFFICIENCY... VERSATILITY

PEERLESS BLOWERS POWERFOIL NON-OVERLOADING BLOWERS INDEX

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 L_{50}) on standard units at the maximum design of each blower class. Bearings are available for 400,000 average life hours (AFBMA L_{50}). 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

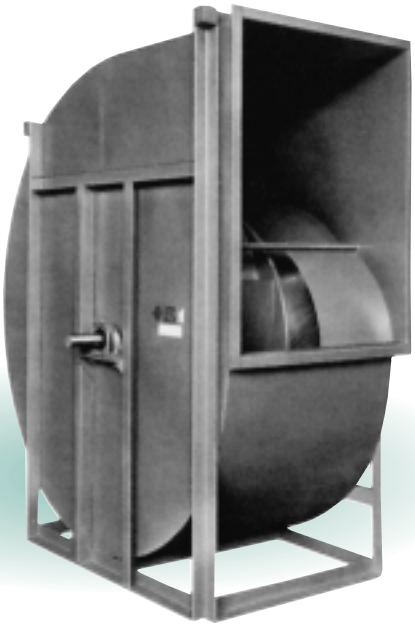
Furnish and install, as shown on the plans and /or in the schedule of equipment, backwardly inclined non-overloading Airfoil blade fans. Each fan unit shall have an air capacity not less than that indicated on the drawings when operating against the indicated external static pressure. Each fan unit shall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

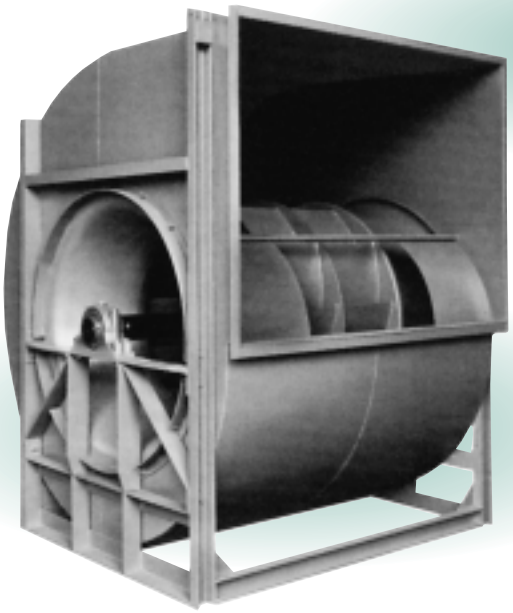
Fan housings shall be constructed of heavy gage steel completely seam-welded for air tight construction. Housings shall have heavy angle or channel side support members, and shall be of a fixed discharge design. Housing discharge outlets shall conform with AMCA recommended standards for centrifugal fan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





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.

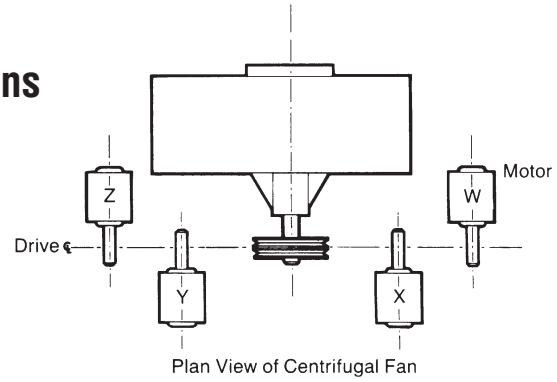
Example: 8.65 (design RPM) x 1.035 = 895 (corrected RPM)
8.01 (design BHP) x 1.09 = 8.73 (corrected BHP)

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.



Plan View of Centrifugal Fan

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.

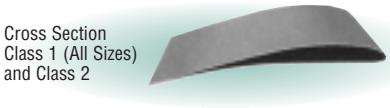
Note: For all type spark resistant fans, the user shall electrically ground all fan parts. Either A or B construction conforms to requirements of National Board of Fire Underwriters Pamphlet No. 91 for fans handling flammable vapors. Bearings shall not be placed in the air or gas stream. A non-ferrous material shall be any material with less than 5% iron or any other material with demonstrated ability to be spark resistant.

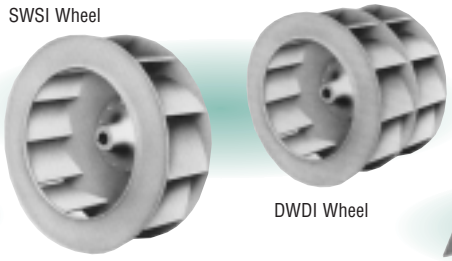
The use of these constructions in no way implies a guarantee of safety for any level of spark resistance. Spark resistant construction does not protect against ignition of explosive gases caused by catastrophic failure or from any airstream material that may be present in a system.

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

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 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.


Cross Section
Class 1 (All Sizes)
and Class 2


SWSI Wheel

DWDI Wheel


Cross Section
Class 3 and Class 4
(All Sizes)

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.

Wheel Weights With WR^2 In Lbs. Ft^2 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.

WR^2_F referred to the motor is

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

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.

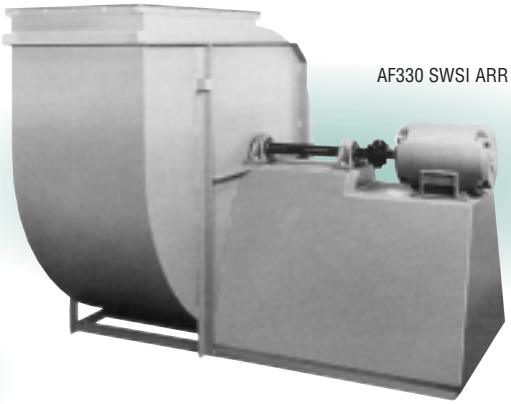
Altitude And Temperature Correct ION Factor Table

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	1.19	1.21	1.23	1.26	1.28	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

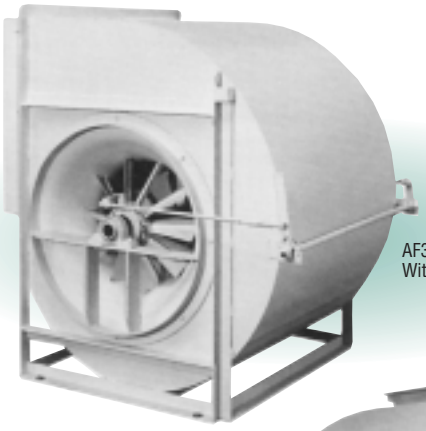
TEMPERATURE OPERATING LIMITS TEMPERATURE RPM DERATING FACTORS IN PERCENT:	
STEEL WHEEL	ALUMINUM WHEEL
300°F 100% 301-400°F 96% 401-500°F 92% 501-600°F 85%	150°F 100% 151-200°F 95% 201-250°F 80%

Better Products by Design with Quality in Every Product

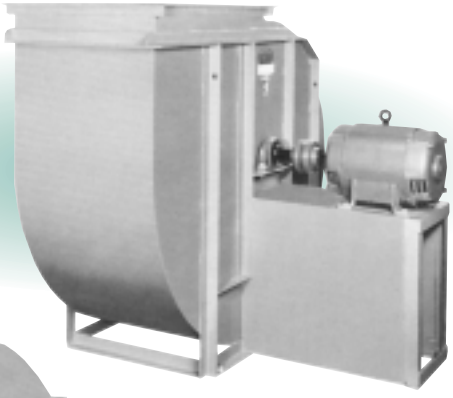
Performance Engineered Fan Arrangements, Options, Accessories and Special Features to Fit Every Application



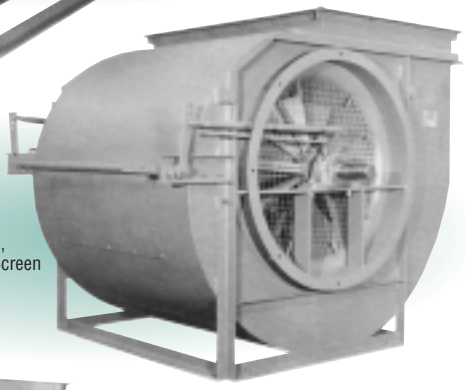
AF330 SWSI ARR 8 Class 1



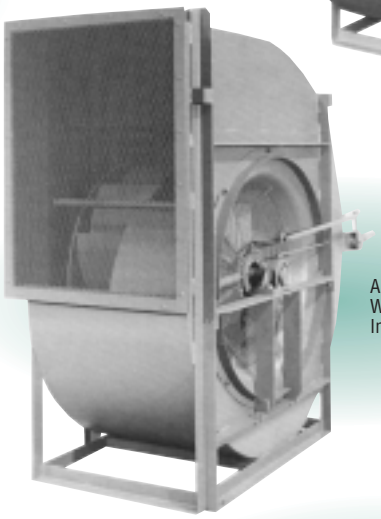
AF300 DWDI ARR 3 Class 1
With Inlet Vanes and Linkage



AF365 SWSI ARR 7 Class 1
With Bolted Access Door



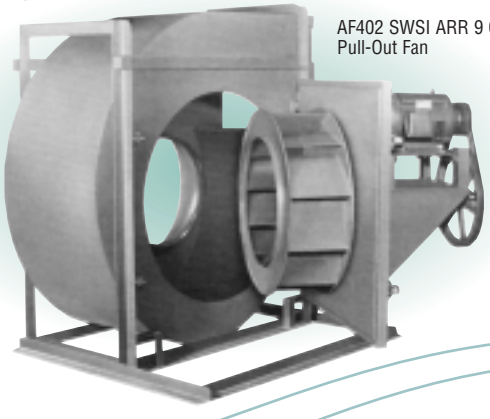
AF402 DWDI ARR 3 Class 4
With Inlet Vanes and Linkage,
Bolted Access Door & Inlet Screen



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

AF445 SWSI ARR 3 Class 4
With Quick Opening Access Door

AF445 SWSI ARR 9L Class 1
With Belt Guard



AF402 SWSI ARR 9 Class 1
Pull-Out Fan

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

AF270SW

TIP SPEED (FPM) = 7.069 x RPM

WHEEL DIAMETER = 27"

OUTLET 4.19 Sq. Ft. Inside; 29" x 21¼" Outside

INLET 4.430 Sq. Ft. Inside; 29" Dia. Outside

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

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

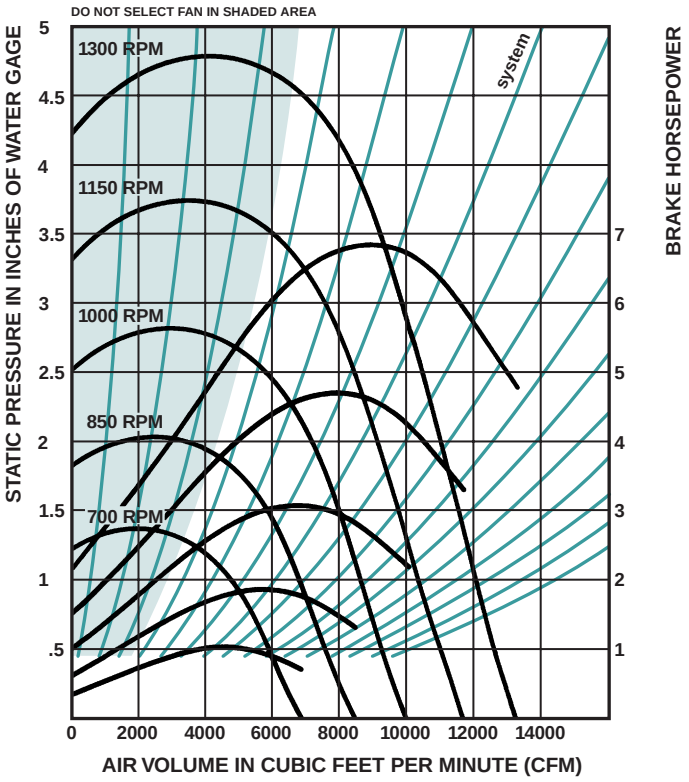
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3352	800	**412**	**0.21**	**445**	**0.28**	**478**	**0.34**	**511**	**0.41**	**544**	**0.49**	**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

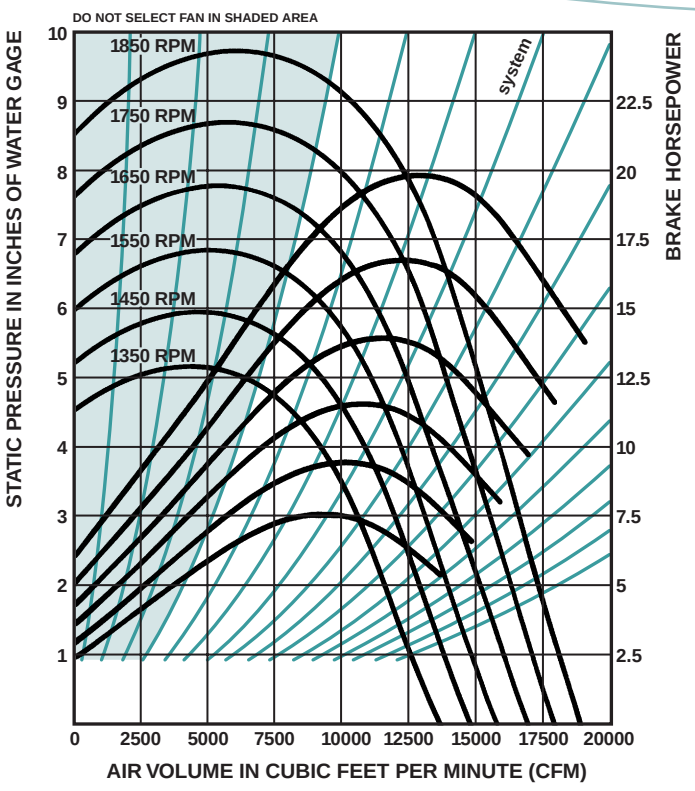
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5447	1300	**888**	**2.13**	**971**	**2.70**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5866	1400	**907**	**2.31**	**984**	**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	1850	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.		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
10056	2400	**1655**	**13.75**	**1700**	**14.77**	**1746**	**15.84**	**1791**	**16.96**	**1838**	**18.14**	—	—	—	—	—	—	—	—	—	—
10894	2600	**1693**	**14.99**	**1734**	**15.99**	**1775**	**17.02**	**1817**	**18.10**	**1858**	**19.23**	**1943**	**21.63**	**2029**	**24.23**	—	—	—	—	—	—
11732	2800	1739	16.44	1777	17.44	**1814**	**18.47**	**1852**	**19.54**	**1890**	**20.63**	**1967**	**22.95**	**2045**	**25.44**	**2124**	**28.11**	**2204**	**30.98**	—	—
12570	3000	1791	18.06	1826	19.10	1861	20.15	1896	21.22	**1931**	**22.31**	**2002**	**24.59**	**2073**	**27.01**	**2145**	**29.59**	**2219**	**32.33**	**2293**	**35.25**
13408	3200	1847	19.83	1880	20.91	1913	22.00	1945	23.10	1978	24.22	**2044**	**26.52**	**2110**	**28.91**	**2177**	**31.43**	**2244**	**34.09**	**2312**	**36.90**
14246	3400	1907	21.72	1938	22.87	1969	24.01	2000	25.16	2030	26.32	2092	28.67	2154	31.09	**2216**	**33.60**	**2279**	**36.22**	**2342**	**38.96**
15084	3600	1970	23.75	1999	24.95	2028	26.16	2057	27.36	2086	28.58	2144	31.02	2203	33.50	2261	36.04	**2320**	**38.66**	**2379**	**41.38**
15922	3800	2034	25.90	2062	27.17	2090	28.44	2118	29.71	2146	30.98	2201	33.54	2256	36.11	2311	38.72	2366	41.39	2422	44.12
16760	4000	2100	28.20	2127	29.53	2154	30.86	2181	32.20	2207	33.53	2260	36.21	2312	38.90	2365	41.61	2417	44.35	2469	47.13
17598	4200	2168	30.64	2194	32.04	2220	33.43	2246	34.83	2271	36.23	2322	39.04	2372	41.85	2422	44.67	2471	47.51	2521	50.38
18436	4400	2237	33.24	2262	34.70	2287	36.16	2312	37.62	2337	39.08	2385	42.02	2433	44.96	2481	47.90	2529	50.86	2576	53.83
19274	4600	2307	36.00	2331	37.53	2356	39.05	2380	40.57	2403	42.10	2450	45.16	2497	48.23	2543	51.30	2589	54.38	2634	57.47
20112	4800	2377	38.93	2401	40.52	2425	42.11	2448	43.70	2471	45.29	2517	48.47	2562	51.67	2606	54.87	2650	58.07	2694	61.28
20950	5000	2448	42.04	2472	43.69	2495	45.34	2518	47.00	2540	48.65	2585	51.96	2628	55.28	2671	58.61	2714	61.95	2756	65.28
21788	5200	2519	45.32	2543	47.04	2565	48.76	2588	50.48	2610	52.20	2653	55.64	2696	59.09	2738	62.54	2779	66.00	2820	69.47
22626	5400	2591	48.78	2614	50.57	2636	52.36	2658	54.15	2680	55.94	2723	59.51	2764	63.08	2805	66.66	—	—	—	—

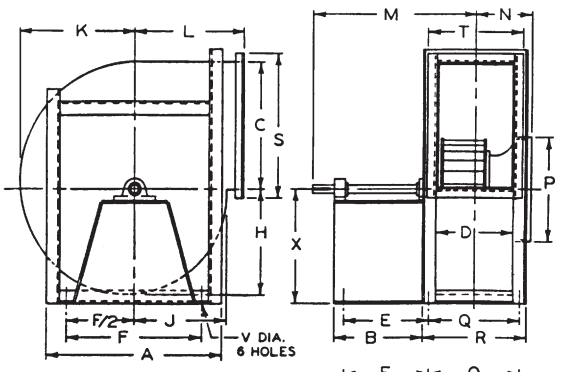
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

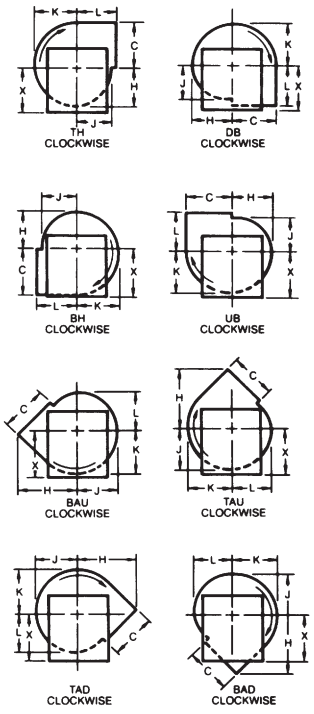
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers



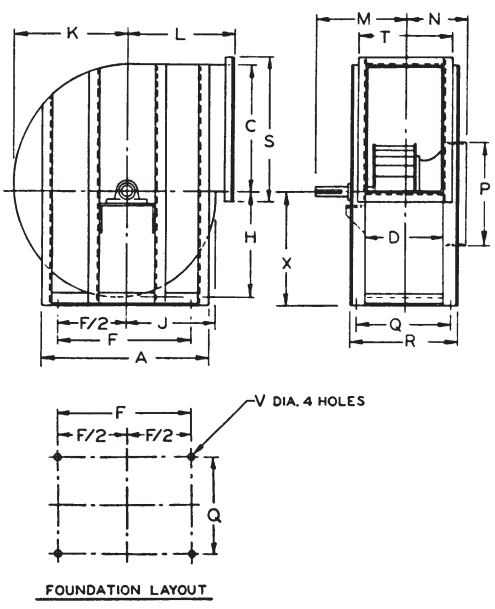


Arrangement #1





Arrangement #3



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

Model No.	Whl. Dia.	Shaft Ext. Dia.	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	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										X				X					
AF270SW	27	1 7/16	3/8 x 3/16 x 5	1 11/16	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 5/8	27 3/8	20	39 5/8	39 5/8	12 5/8	29	23 1/2	25 1/4	33	25 1/4	—	7/8	—	23 5/8	21 5/8	32	26 3/4	28 7/8	25 1/8	21 1/2	25 1/8	765	840
AF270SW	27	1 7/16	3/8 x 3/16 x 6	1 7/16	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 5/8	27 3/8	20	19 7/8	20 5/8	15 5/8	29	23 1/2	25 1/4	33	25 1/4	—	7/8	—	23 5/8	21 5/8	32	26 3/4	28 7/8	25 1/8	21 1/2	25 1/8	585	640

Arrangement #1 Dimensions — Refer to Line 1
Arrangement #3 Dimensions — Refer to Line 2

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

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

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

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

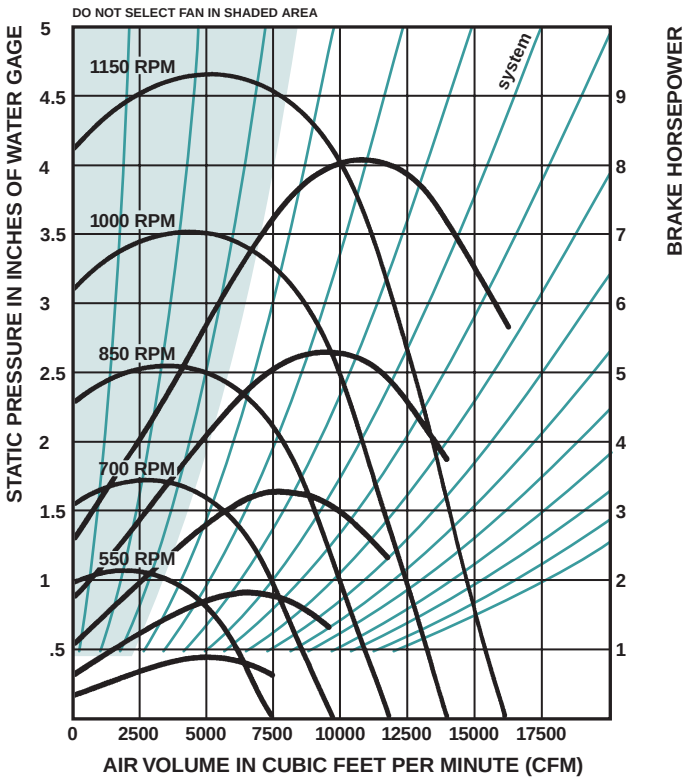
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4136	800	**371**	**0.26**	**401**	**0.34**	**430**	**0.42**	**460**	**0.51**	**490**	**0.61**	**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

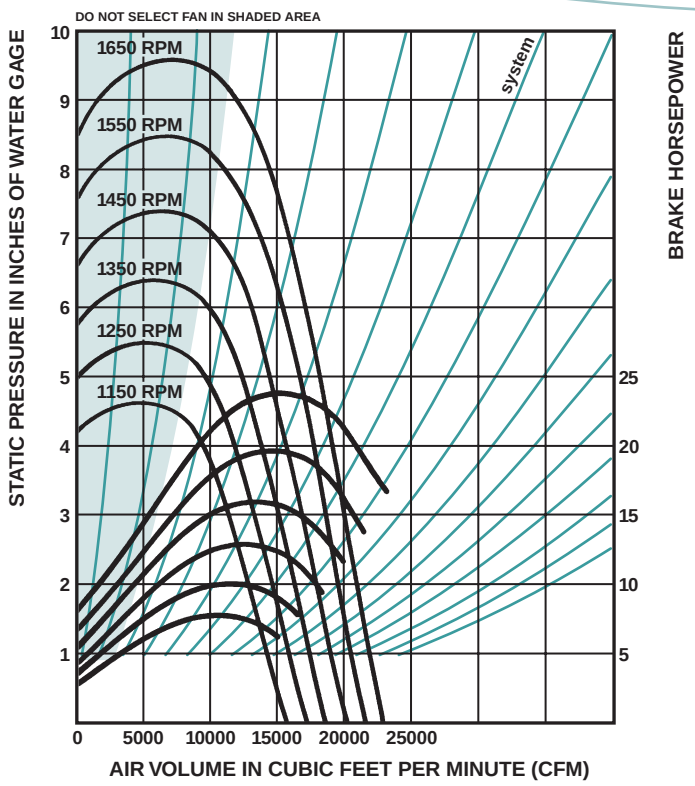
VOL. CFM	VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6721	1300	**799**	**2.63**	**874**	**3.34**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7238	1400	**817**	**2.85**	**885**	**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	11.32	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.		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
12408	2400	**1490**	**16.98**	**1530**	**18.23**	**1571**	**19.55**	**1612**	**20.94**	**1654**	**22.40**	—	—	—	—	—	—	—	—	—	—
13442	2600	**1524**	**18.51**	**1561**	**19.74**	**1598**	**21.02**	**1635**	**22.35**	**1672**	**23.74**	**1748**	**26.70**	**1826**	**29.92**	—	—	—	—	—	—
14476	2800	1565	20.30	1599	21.54	**1633**	**22.81**	**1667**	**24.12**	**1701**	**25.48**	**1771**	**28.33**	**1841**	**31.41**	**1912**	**34.71**	**1984**	**38.25**	—	—
15510	3000	1612	22.30	1643	23.58	1675	24.87	1706	26.20	**1738**	**27.55**	**1802**	**30.36**	**1866**	**33.35**	**1931**	**36.53**	**1997**	**39.91**	**2063**	**43.52**
16544	3200	1663	24.48	1692	25.82	1721	27.16	1751	28.52	1780	29.90	**1840**	**32.74**	**1899**	**35.69**	**1959**	**38.80**	**2020**	**42.09**	**2081**	**45.56**
17578	3400	1716	26.82	1744	28.23	1772	29.64	1800	31.06	1827	32.49	1883	35.40	1938	38.38	**1994**	**41.48**	**2051**	**44.71**	**2107**	**48.10**
18612	3600	1773	29.32	1799	30.80	1825	32.29	1852	33.78	1878	35.28	1930	38.30	1982	41.36	2035	44.50	**2088**	**47.73**	**2141**	**51.09**
19646	3800	1831	31.98	1856	33.54	1881	35.11	1906	36.68	1931	38.25	1981	41.40	2030	44.58	2080	47.81	2130	51.10	2179	54.47
20680	4000	1890	34.81	1915	36.46	1939	38.10	1963	39.75	1987	41.40	2034	44.70	2081	48.02	2128	51.37	2175	54.75	2223	58.19
21714	4200	1951	37.83	1975	39.55	1998	41.28	2021	43.00	2044	44.73	2089	48.19	2134	51.66	2179	55.15	2224	58.65	2269	62.19
22748	4400	2013	41.04	2036	42.84	2059	44.64	2081	46.45	2103	48.25	2147	51.87	2190	55.50	2233	59.14	2276	62.79	2319	66.45
23782	4600	2076	44.45	2098	46.33	2120	48.21	2142	50.09	2163	51.98	2205	55.75	2247	59.54	2289	63.33	2330	67.13	2371	70.94
24816	4800	2139	48.07	2161	50.03	2182	51.99	2203	53.95	2224	55.91	2265	59.84	2306	63.79	2346	67.74	2385	71.69	2425	75.66
25850	5000	2203	51.90	2224	53.94	2245	55.98	2266	58.02	2286	60.06	2326	64.15	2365	68.25	2404	72.36	2443	76.48	2481	80.60
26884	5200	2267	55.95	2288	58.07	2309	60.20	2329	62.32	2349	64.44	2388	68.69	2426	72.95	2464	77.21	2501	81.48	2538	85.76
27918	5400	2332	60.22	2353	62.44	2373	64.65	2393	66.85	2412	69.06	2450	73.47	2488	77.88	2525	82.30	—	—	—	—

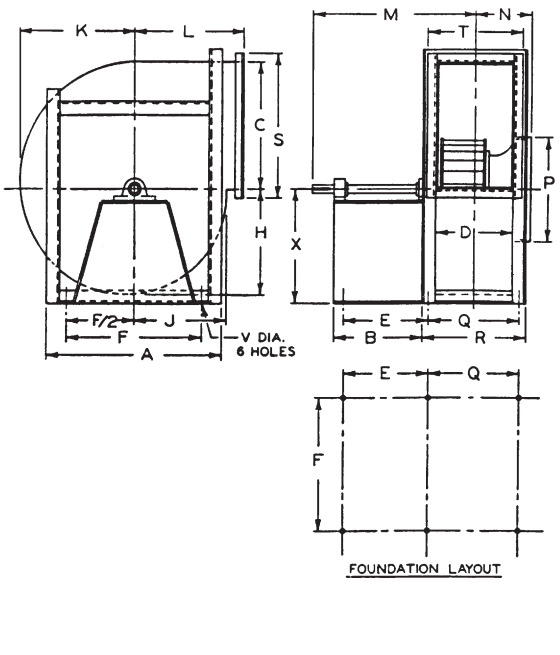
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

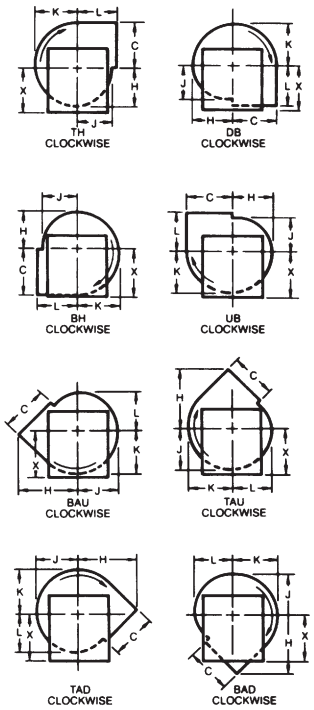
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers



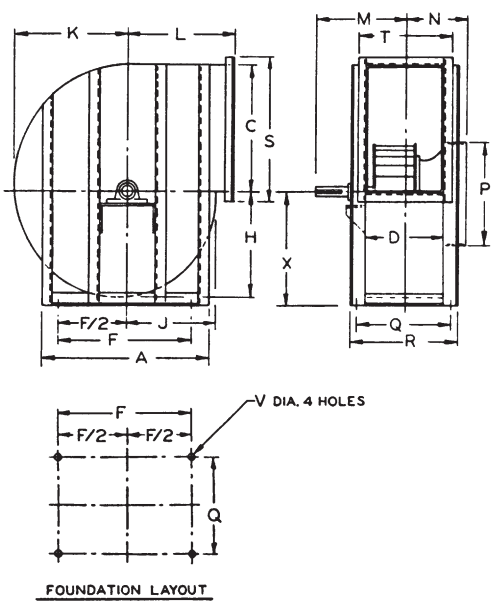


Arrangement #1





Arrangement #3



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

Model No.	Whl. Dia.	Class I Shaft Ext. Dia.	Class I Keyway	Class II Shaft Ext. Dia.	Class II Keyway	A	B	C	D	E	F	TH, DB, BH, UB Straight Discharge H	J	K	L	TH, DB, BH, UB Angular Discharge H	J	K	L	Class I M	Class II M	N	P	Q	R	S	T	U	V	W	X TH	X DB	X BH	X UB	X BAU	X TAU	X TAD	X BAD	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
AF300SW	30	1 11/16	3/8 x 3/16 x 5	1 15/16	1/2 x 1/4 x 5	41 3/4	23	32 1/4	23 3/8	23	31 3/4	24 5/8	20 1/2	28 1/8	23 3/4	39 3/8	26 1/8	30 1/2	22 1/4	42 5/8	42 5/8	13 3/4	32 1/4	25 5/8	27 3/8	36 1/4	27 3/8	—	7/8	—	26 1/8	23 3/4	35 1/4	29 5/8	32	27 7/8	23 3/4	27 7/8	930	1020
AF300SW	30	1 11/16	3/8 x 3/16 x 6	1 11/16	3/8 x 3/16 x 6	41 3/4	—	32 1/4	23 3/8	—	31 3/4	24 5/8	20 1/2	28 1/8	23 3/4	39 3/8	26 1/8	30 1/2	22 1/4	21 1/4	22	16 5/8	32 1/4	25 5/8	27 3/8	36 1/4	27 3/8	—	7/8	—	26 1/8	23 3/4	35 1/4	29 5/8	32	27 7/8	23 3/4	27 7/8	705	780

Arrangement #1 Dimensions — Refer to Line 1
Arrangement #3 Dimensions — Refer to Line 2

AF330SW

TIP SPEED (FPM) = 8.639 x RPM

WHEEL DIAMETER = 33"

OUTLET { 6.26 Sq. Ft. Inside; 35 3/8" x 25 7/8" Outside

INLET { 6.618 Sq. Ft. Inside; 35 3/8" Dia. Outside

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

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

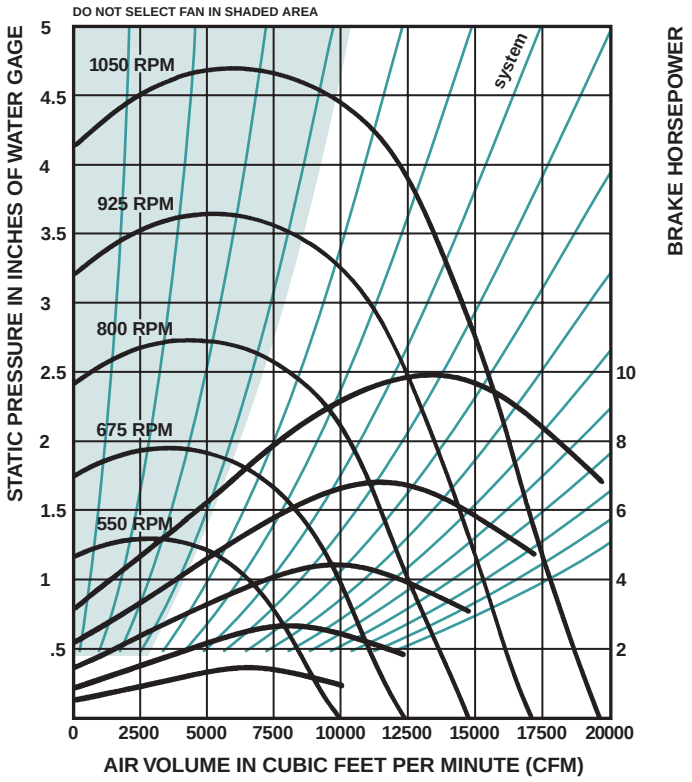
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5008	800	**337**	**0.31**	**364**	**0.41**	**391**	**0.51**	**418**	**0.62**	**445**	**0.73**	**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

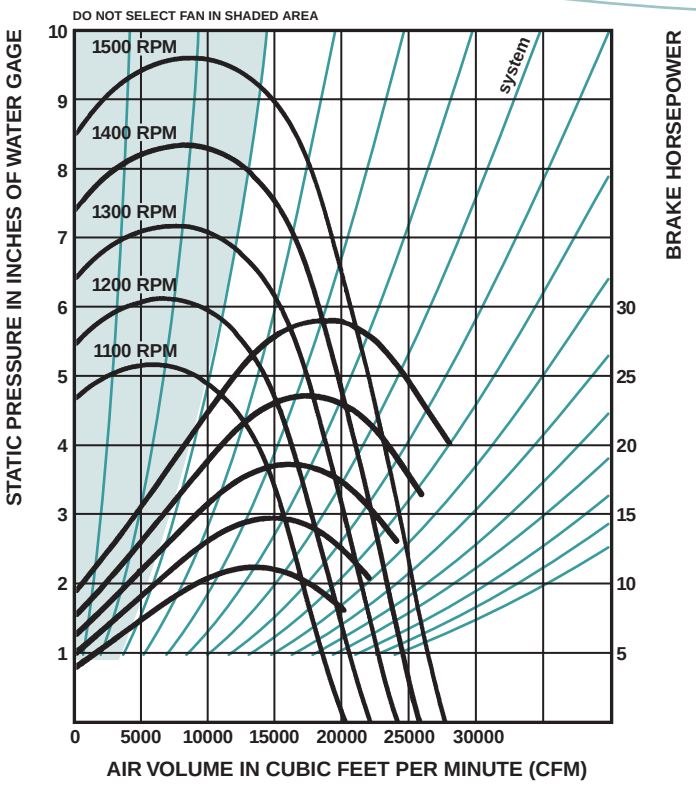
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8138	1300	**726**	**3.18**	**795**	**4.04**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8764	1400	**742**	**3.45**	**805**	**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.		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
15024	2400	**1354**	**20.54**	**1391**	**22.06**	**1428**	**23.66**	**1466**	**25.34**	**1504**	**27.10**	—	—	—	—	—	—	—	—	—	—
16276	2600	**1385**	**22.39**	**1419**	**23.88**	**1452**	**25.43**	**1486**	**27.04**	**1520**	**28.73**	**1590**	**32.31**	**1660**	**36.20**	—	—	—	—	—	—
17528	2800	1423	24.56	1454	26.06	**1485**	**27.60**	**1516**	**29.18**	**1547**	**30.82**	**1610**	**34.28**	**1673**	**38.00**	**1738**	**42.00**	**1803**	**46.28**	—	—
18780	3000	1465	26.99	1494	28.53	1523	30.10	1551	31.70	**1580**	**33.33**	**1638**	**36.74**	**1696**	**40.35**	**1755**	**44.20**	**1815**	**48.29**	**1876**	**52.66**
20032	3200	1511	29.62	1538	31.24	1565	32.87	1592	34.51	1619	36.18	**1672**	**39.61**	**1727**	**43.19**	**1781**	**46.95**	**1836**	**50.92**	**1892**	**55.12**
21284	3400	1560	32.45	1586	34.16	1611	35.87	1636	37.58	1661	39.31	1712	42.83	1762	46.44	**1813**	**50.19**	**1864**	**54.10**	**1916**	**58.20**
22536	3600	1611	35.47	1635	37.27	1659	39.07	1683	40.88	1707	42.69	1755	46.34	1802	50.05	1850	53.84	**1898**	**57.76**	**1946**	**61.82**
23788	3800	1664	38.70	1687	40.59	1710	42.48	1733	44.38	1755	46.28	1801	50.10	1846	53.95	1891	57.85	1936	61.83	1981	65.91
25040	4000	1719	42.12	1741	44.11	1763	46.10	1784	48.10	1806	50.09	1849	54.09	1892	58.11	1935	62.15	1978	66.25	2020	70.41
26292	4200	1774	45.78	1795	47.86	1816	49.94	1837	52.03	1858	54.12	1899	58.31	1940	62.51	1981	66.73	2022	70.97	2063	75.25
27544	4400	1830	49.66	1851	51.84	1871	54.02	1892	56.20	1912	58.39	1951	62.77	1991	67.16	2030	71.56	2069	75.97	2108	80.41
28796	4600	1887	53.78	1907	56.06	1927	58.33	1947	60.61	1966	62.89	2005	67.46	2043	72.04	2081	76.63	2118	81.23	2155	85.84
30048	4800	1945	58.16	1964	60.53	1984	62.90	2003	65.28	2022	67.65	2059	72.41	2096	77.18	2132	81.96	2169	86.75	2204	91.55
31300	5000	2003	62.79	2022	65.27	2041	67.74	2060	70.21	2078	72.68	2115	77.63	2150	82.59	2186	87.56	2221	92.54	2255	97.52
32552	5200	2061	67.69	2080	70.27	2099	72.84	2117	75.41	2135	77.98	2171	83.12	2206	88.27	2240	93.43	2274	98.60	2307	103.77
33804	5400	2120	72.87	2139	75.55	2157	78.22	2175	80.89	2193	83.56	2228	88.90	2262	94.24	2295	99.58	—	—	—	—

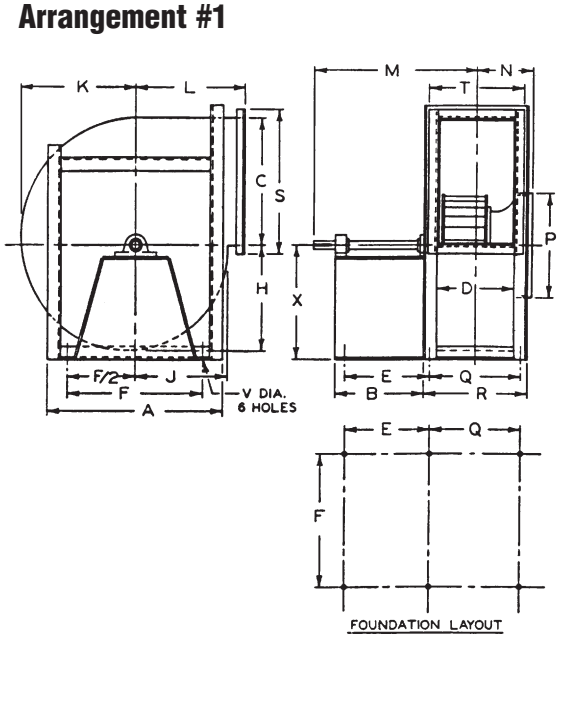
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers





Arrangement #1



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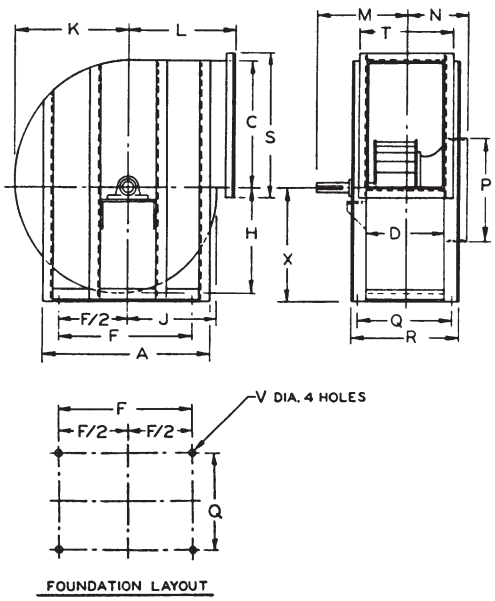


Arrangement #1 & #3 — SWSI — Class I & II

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

Arrangement #1 Dimensions — Refer to Line 1
Arrangement #3 Dimensions — Refer to Line 2

AF365SW

TIP SPEED (FPM) = 9.566 x RPM

WHEEL DIAMETER = 36½"

OUTLET { **7.66 Sq. Ft. Inside** / **39¼" x 28½" Outside**

INLET { **8.11 Sq. Ft. Inside** / **39" Dia. Outside**

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

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

Minimum horsepower required to start fan — 1 HP

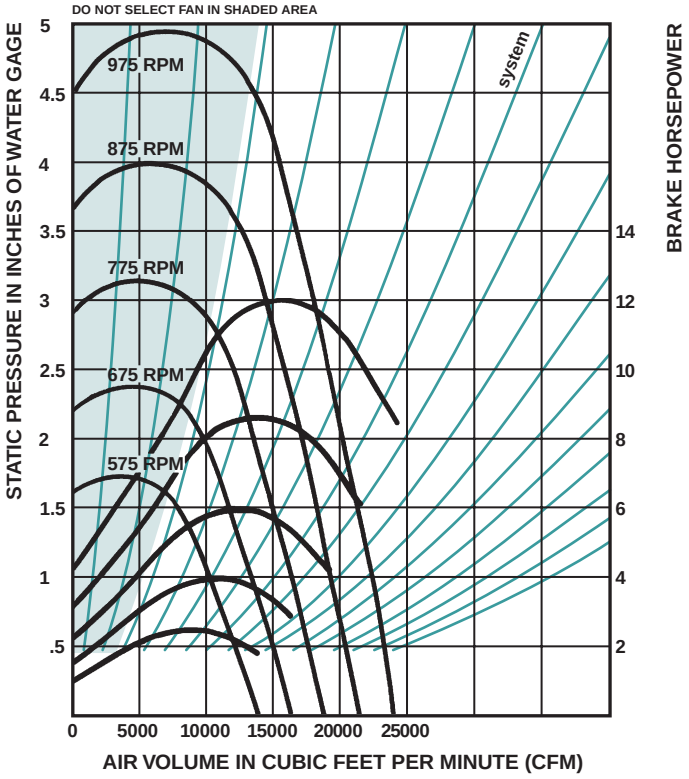
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6128	800	**311**	**0.37**	**338**	**0.49**	**362**	**0.62**	**385**	**0.74**	**408**	**0.88**	—	—	—	—	—	—	—	—	—	—
6894	900	336	0.45	362	0.59	385	0.73	406	0.87	**427**	**1.01**	**447**	**1.16**	**467**	**1.31**	—	—	—	—	—	—
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

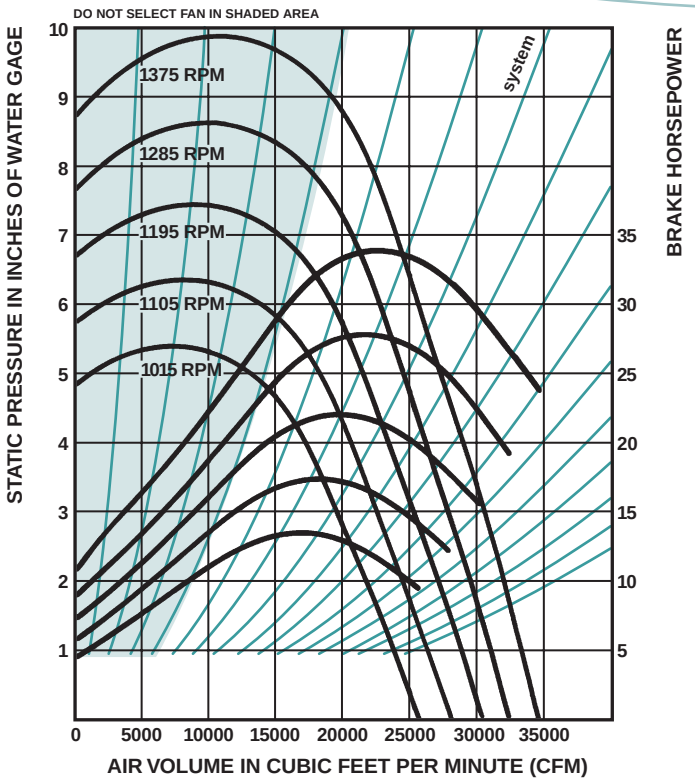
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9958	1300	**665**	**3.80**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10724	1400	**683**	**4.14**	**736**	**5.10**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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**	—	—	—	—	—	—
16852	2200	865	8.01	904	9.38	941	10.72	976	12.05	1010	13.40	**1044**	**14.79**	**1077**	**16.23**	**1111**	**17.72**	**1144**	**19.24**	**1178**	**20.78**
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	**1240**	**24.51**	**1270**	**26.19**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19916	2600	**1274**	**26.85**	**1302**	**28.60**	**1331**	**30.39**	**1359**	**32.19**	**1388**	**34.02**	—	—	—	—	—	—	—	—	—	—
21448	2800	1313	29.47	**1340**	**31.26**	**1366**	**33.10**	**1392**	**34.97**	**1418**	**36.88**	**1471**	**40.77**	—	—	—	—	—	—	—	—
22980	3000	1356	32.36	1381	34.22	1405	36.11	**1430**	**38.03**	**1454**	**39.98**	**1503**	**44.00**	**1552**	**48.13**	**1602**	**52.34**	—	—	—	—
24512	3200	1400	35.52	1424	37.46	1448	39.42	1471	41.40	1494	43.40	**1540**	**47.52**	**1586**	**51.77**	**1632**	**56.13**	**1678**	**60.58**	—	—
26044	3400	1446	38.89	1469	40.95	1492	43.00	1515	45.07	1537	47.15	1581	51.37	**1624**	**55.72**	**1667**	**60.19**	**1711**	**64.77**	**1754**	**69.46**
27576	3600	1493	42.45	1516	44.64	1538	46.83	1560	49.01	1581	51.18	1623	55.57	1665	60.03	1706	64.60	**1747**	**69.28**	**1788**	**74.08**
29108	3800	1541	46.18	1563	48.53	1585	50.86	1606	53.17	1627	55.47	1668	60.07	1708	64.69	1747	69.39	1786	74.17	**1825**	**79.07**
30640	4000	1590	50.09	1612	52.59	1633	55.07	1654	57.54	1674	59.98	1714	64.83	1753	69.67	1791	74.53	1828	79.45	1866	84.46
32172	4200	1639	54.18	1660	56.84	1681	59.48	1701	62.09	1722	64.69	1761	69.83	1799	74.93	1836	80.01	1872	85.10	1908	90.25
33704	4400	1688	58.47	1709	61.27	1730	64.07	1750	66.84	1770	69.59	1808	75.04	1845	80.42	1882	85.76	1917	91.08	1952	96.42
35236	4600	1738	62.98	1759	65.92	1779	68.86	1799	71.78	1818	74.69	1856	80.45	1893	86.14	1928	91.77	1963	97.35	1997	102.91
36768	4800	1788	67.73	1808	70.80	1829	73.88	1848	76.95	1867	80.00	1905	86.08	1941	92.08	1976	98.01	2010	103.88	2043	109.71
38300	5000	1839	72.75	1859	75.94	1878	79.14	1898	82.35	1917	85.55	1954	91.92	1989	98.23	2024	104.47	2058	110.65	—	—
39832	5200	1890	78.06	1909	81.36	1929	84.68	1948	88.01	1967	91.34	2003	97.99	2038	104.61	2072	111.16	—	—	—	—
41364	5400	1941	83.69	1960	87.09	1979	90.51	1998	93.95	2017	97.41	2053	104.32	2088	111.23	—	—	—	—	—	—

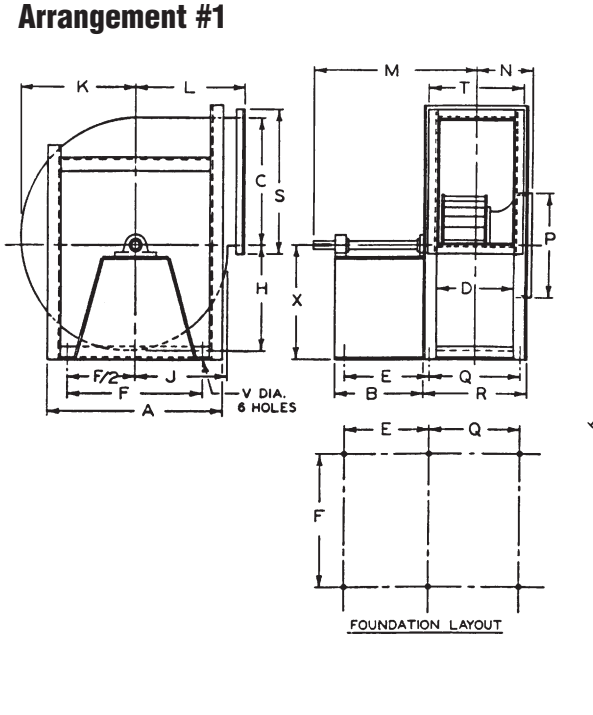
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

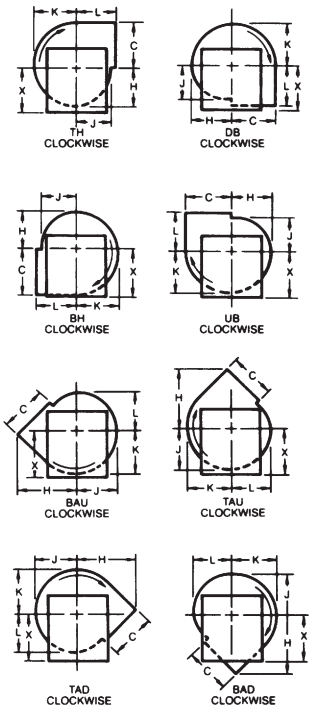
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers



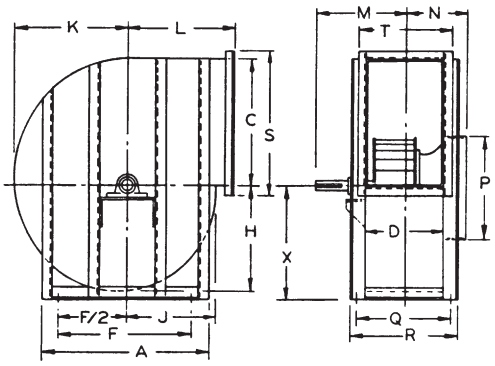


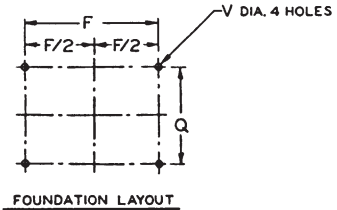
Arrangement #1





Arrangement #3





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

Model No.	Whl. Dia.	Shaft Ext. Dia.	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	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								H	J	K	L	H	J	K	L	M	M										TH	DB	BH	UB	BAU	TAU	TAD	BAD		
AF365SW	36½	1 15/16	½ x ¼ x 5	2 3/16	½ x ¼ x 5	49½	23	39¼	28½	23	38½	30	24 7/8	34 1/8	28 1/8	47 3/8	32	37 1/8	27	45 3/8	45 3/8	16¼	39	31¼	33½	44¼	33½	—	7/8	—	32	28 1/8	42 3/4	36 1/8	39 1/8	34	29	34	1260	1380
AF365SW	36½	1 15/16	½ x ¼ x 6	1 15/16	½ x ¼ x 6	49½	—	39¼	28½	—	38½	30	24 7/8	34 1/8	28 1/8	47 3/8	32	37 1/8	27	24 1/8	24 3/4	19¾	39	31¼	33½	44¼	33½	—	7/8	—	32	28 1/8	42 3/4	36 1/8	39 1/8	34	29	34	965	1060

Arrangement #1 Dimensions — Refer to Line 1
Arrangement #3 Dimensions — Refer to Line 2

AF402SW

TIP SPEED (FPM) = 10.54 x RPM

WHEEL DIAMETER = 40 1/4"

OUTLET { **9.31 Sq. Ft. Inside** / **43 1/4" x 31 5/8" Outside**

INLET { **9.85 Sq. Ft. Inside** / **43" Dia. Outside**

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

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

Minimum horsepower required to start fan — 1 1/2 HP

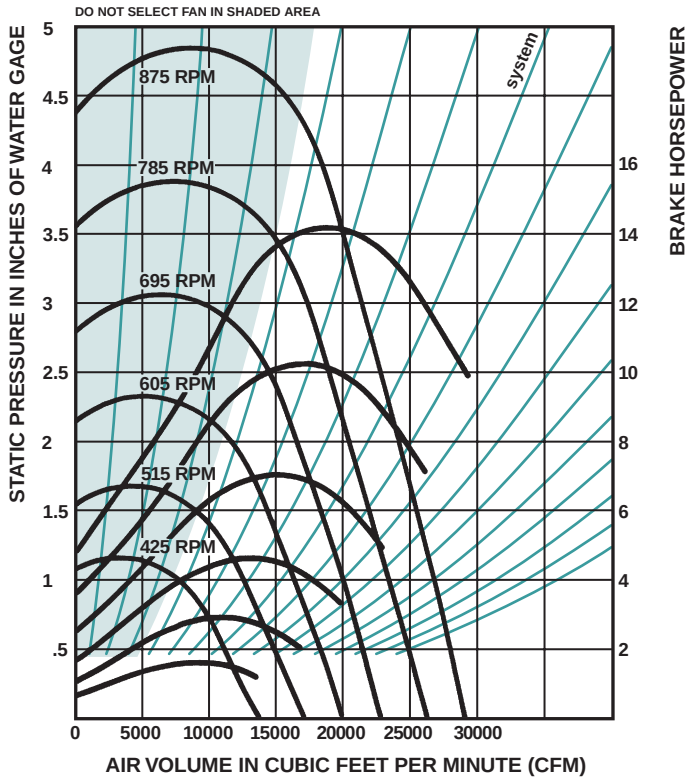
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7448	800	**282**	**0.45**	**306**	**0.60**	**328**	**0.75**	**349**	**0.90**	**370**	**1.07**	—	—	—	—	—	—	—	—	—	—
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

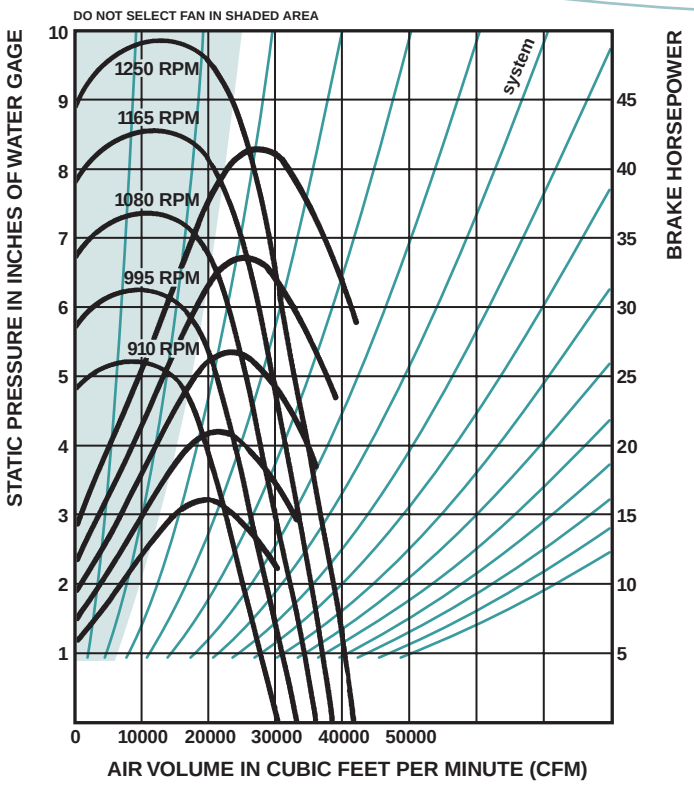
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12103	1300	**603**	**4.62**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13034	1400	**619**	**5.03**	**667**	**6.20**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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**	—	—	—	—	—	—
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.		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
22344	2400	**1124**	**29.81**	**1152**	**31.85**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
24206	2600	**1155**	**32.66**	**1181**	**34.78**	**1207**	**36.95**	**1232**	**39.15**	**1258**	**41.37**	—	—	—	—	—	—	—	—	—	—
26068	2800	1191	35.83	**1215**	**38.02**	**1239**	**40.25**	**1262**	**42.53**	**1286**	**44.85**	**1334**	**49.57**	—	—	—	—	—	—	—	—
27930	3000	1229	39.35	1252	41.61	1274	43.91	**1297**	**46.24**	**1319**	**48.62**	**1363**	**53.51**	**1408**	**58.53**	**1453**	**63.64**	—	—	—	—
29792	3200	1270	43.19	1291	45.55	1313	47.93	1334	50.34	1355	52.78	**1397**	**57.78**	**1439**	**62.95**	**1480**	**68.26**	**1522**	**73.67**	—	—
31654	3400	1312	47.29	1332	49.79	1353	52.29	1373	54.81	1394	57.33	1433	62.47	**1473**	**67.75**	**1512**	**73.19**	**1551**	**78.77**	**1590**	**84.86**
33516	3600	1354	51.62	1375	54.29	1395	56.94	1414	59.59	1434	62.24	1472	67.57	1510	73.00	1547	78.55	**1584**	**84.25**	**1621**	**90.09**
35378	3800	1398	56.16	1418	59.01	1437	61.84	1457	64.66	1475	67.46	1513	73.05	1549	78.67	1585	84.38	1620	90.19	**1655**	**96.15**
37240	4000	1442	60.91	1461	63.96	1481	66.97	1499	69.97	1518	72.94	1554	78.84	1589	84.72	1624	90.64	1658	96.62	1692	102.70
39102	4200	1486	65.89	1505	69.12	1524	72.32	1543	75.51	1561	78.66	1597	84.92	1631	91.11	1665	97.29	1698	103.49	1730	109.75
40964	4400	1531	71.10	1550	74.51	1569	77.91	1587	81.28	1605	84.63	1640	91.25	1673	97.80	1706	104.29	1738	110.76	1770	117.25
42826	4600	1576	76.58	1595	80.16	1613	83.74	1631	87.29	1649	90.83	1683	97.84	1717	104.75	1749	111.59	1780	118.38	1811	125.15
44688	4800	1621	82.36	1640	86.10	1658	89.84	1676	93.57	1693	97.29	1727	104.67	1760	111.97	1792	119.18	1823	126.32	1853	133.41
46550	5000	1667	88.47	1686	92.35	1703	96.24	1721	100.14	1738	104.03	1772	111.77	1804	119.45	1835	127.04	1866	134.55	1896	141.99
48412	5200	1714	94.93	1731	98.94	1749	102.97	1766	107.02	1783	111.07	1816	119.16	1848	127.20	1879	135.18	—	—	—	—
50274	5400	1760	101.77	1778	105.90	1795	110.06	1812	114.25	1829	118.45	1861	126.86	1893	135.26	—	—	—	—	—	—

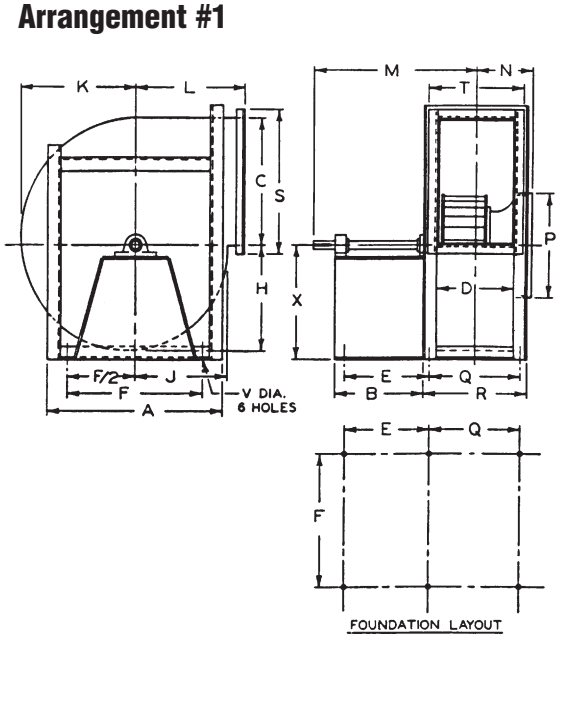
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

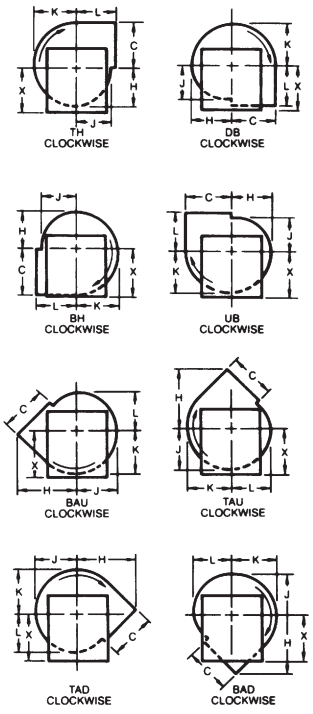
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers



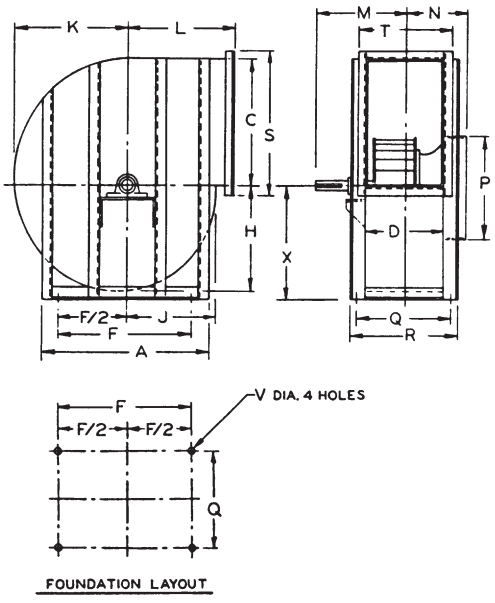


Arrangement #1





Arrangement #3



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

Model No.	Whl. Dia.	Shaft Ext. Dia.	Keyway	Shaft Ext. Dia.	Keyway	A	B	C	D	E	F	TH, DB, BH, UB Straight Discharge H	J	K	L	TH, DB, BH, UB Angular Discharge H	J	K	L	Class I M	Class II M	N	P	Q	R	S	T	U	V	W	X TH	X DB	X BH	X UB	X BAU	X TAU	X TAD	X BAD	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
		Class I		Class II																																				
AF402SW	40¼	2 3/16	½ x ¼ x 5	2 1/16	5/8 x 5/16 x 6	54½	24½	43¼	31⅝	24½	42½	33	27½	37⅝	30¾	52⅛	35¼	40¾	29⅜	50¼	50¼	18⅜	43	35⅛	37⅝	49¼	37⅝	—	⅞	—	35½	30⅜	47¼	40⅛	43¼	37¾	32¼	37¾	1710	1850
AF402SW	40¼	1 15/16	½ x ¼ x 6	2 3/16	½ x ¼ x 7	54½	—	43¼	31⅝	—	42½	33	27½	37⅝	30¾	52⅛	35¼	40¾	29⅜	27¼	27½	21¾	43	35⅛	37⅝	49¼	37⅝	—	⅞	—	35½	30⅜	47¼	40⅛	43¼	37¾	32¼	37¾	1310	1410

Arrangement #1 Dimensions — Refer to Line 1
Arrangement #3 Dimensions — Refer to Line 2

AF445SW

TIP SPEED (FPM) = 11.65 x RPM

WHEEL DIAMETER = 44 1/2"

OUTLET 11.39 Sq. Ft. Inside, 47 3/4" x 35" Outside

INLET 12.05 Sq. Ft. Inside, 47 1/2" Dia. Outside

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

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

Minimum horsepower required to start fan — 2 HP

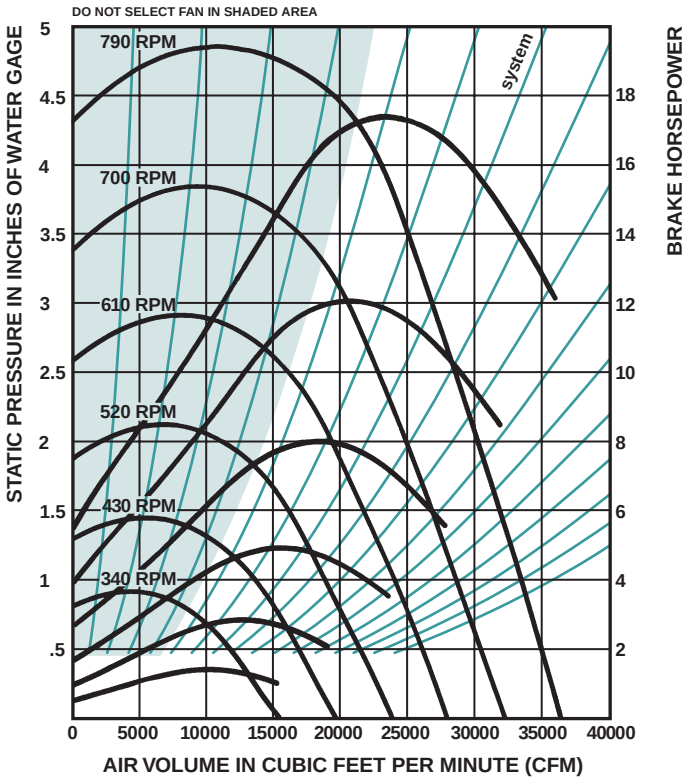
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9112	800	**255**	**0.55**	**277**	**0.73**	**297**	**0.92**	**316**	**1.10**	**335**	**1.30**	—	—	—	—	—	—	—	—	—	—
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	1.43	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

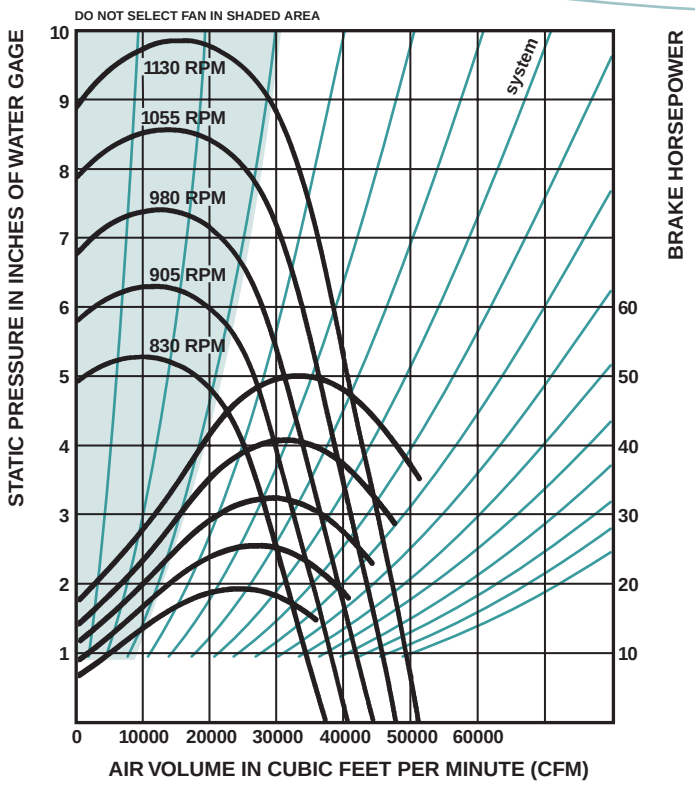
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14807	1300	**546**	**5.65**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15946	1400	**560**	**6.15**	**603**	**7.57**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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**	—	—	—	—	—	—
25058	2200	709	11.90	742	13.94	772	15.93	800	17.91	829	19.92	**856**	**21.99**	**884**	**24.13**	**911**	**26.34**	**938**	**28.60**	**966**	**30.89**
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	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
27336	2400	**1017**	**36.43**	**1042**	**38.93**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29614	2600	**1045**	**39.92**	**1068**	**42.52**	**1091**	**45.17**	**1115**	**47.85**	**1138**	**50.57**	—	—	—	—	—	—	—	—	—	—
31892	2800	1077	43.80	**1099**	**46.47**	**1120**	**49.20**	**1142**	**51.98**	**1163**	**54.82**	**1207**	**60.60**	—	—	—	—	—	—	—	—
34170	3000	1112	48.10	1132	50.86	1153	53.67	**1173**	**56.62**	**1193**	**59.43**	**1233**	**65.40**	**1273**	**71.54**	**1314**	**77.79**	—	—	—	—
36448	3200	1148	52.79	1168	55.68	1187	58.59	1207	61.53	1226	64.52	**1263**	**70.63**	**1301**	**76.94**	**1339**	**83.43**	**1377**	**90.04**	—	—
38726	3400	1186	57.81	1205	60.86	1224	63.92	1242	66.99	1260	70.08	1297	76.36	**1332**	**82.82**	**1368**	**89.46**	**1403**	**96.28**	**1439**	**103.24**
41004	3600	1225	63.10	1243	66.36	1262	69.60	1279	72.84	2197	76.08	1332	82.60	1366	89.23	1399	96.02	**1433**	**102.98**	**1466**	**110.12**
43282	3800	1264	68.65	1282	72.14	1300	75.59	1317	79.03	1335	82.45	1368	89.29	1401	96.16	1433	103.13	1465	110.25	**1497**	**117.53**
45560	4000	1304	74.46	1322	78.18	1339	81.86	1356	85.52	1373	89.15	1406	96.37	1438	103.56	1469	110.79	1500	118.10	1530	125.54
47838	4200	1344	80.53	1362	84.48	1379	88.40	1396	92.29	1412	96.15	1444	103.80	1475	111.37	1506	118.92	1535	126.50	1565	134.15
50116	4400	1385	86.91	1402	91.08	1419	95.23	1435	99.35	1452	103.44	1483	111.54	1514	119.54	1543	127.47	1572	135.38	1601	143.31
52394	4600	1425	93.61	1442	97.99	1459	102.35	1475	106.70	1491	111.02	1523	119.59	1553	128.04	1582	136.40	1610	144.70	1638	152.97
54672	4800	1467	100.67	1483	105.24	1500	109.81	1516	114.37	1532	118.92	1562	127.94	1592	136.86	1621	145.68	1649	154.40	1676	163.07
56950	5000	1508	108.13	1525	112.88	1541	117.64	1557	122.40	1572	127.15	1603	136.62	1632	146.01	1660	155.29	1688	164.47	1715	173.56
59228	5200	1550	116.03	1566	120.93	1582	125.87	1598	130.81	1613	135.76	1643	145.65	1672	155.49	1700	165.23	—	—	—	—
61506	5400	1592	124.40	1608	129.45	1624	134.53	1639	139.65	1654	144.78	1684	155.07	1712	165.33	—	—	—	—	—	—

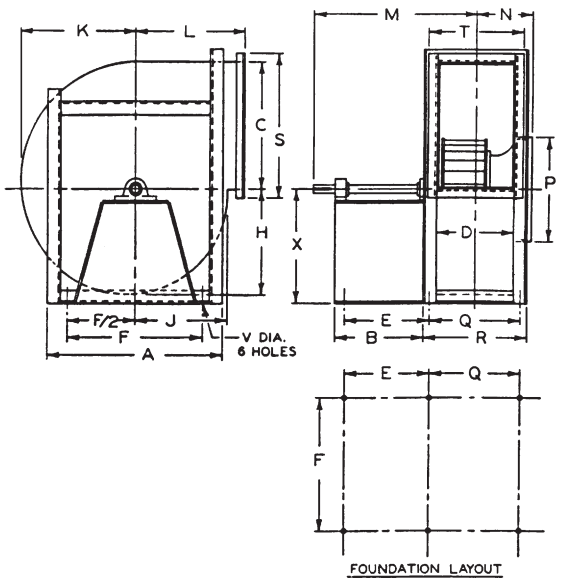
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

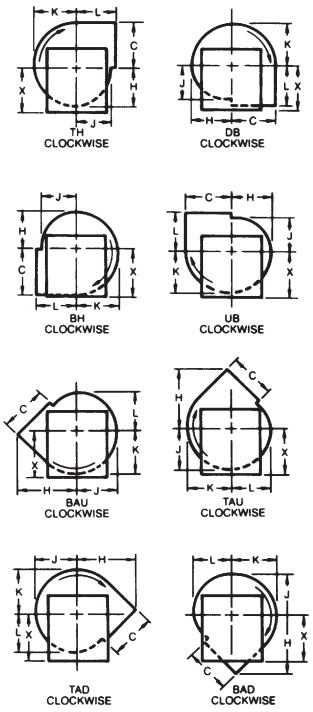
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers





Arrangement #1





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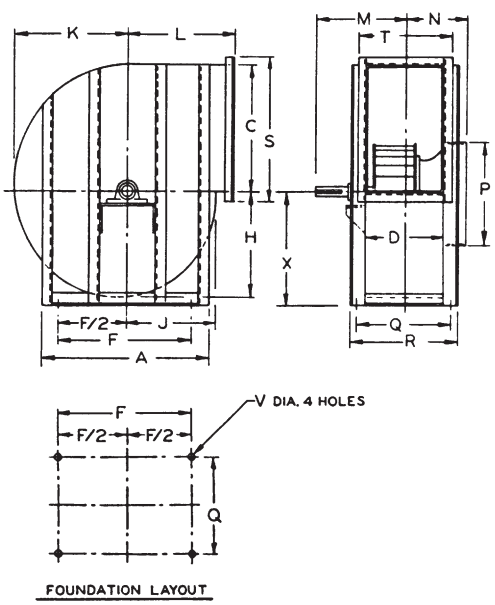


Arrangement #1 & #3 — SWSI — Class I & II

Model No.	Whl. Dia.	Shaft Ext. Dia. (Class I)	Keyway (Class I)	Shaft Ext. Dia. (Class II)	Keyway (Class II)	A	B	C	D	E	F	TH, DB, BH, UB Straight Discharge H	J	K	L	TH, DB, BH, UB Angular Discharge H	J	K	L	Class I M	Class II 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
AF445SW	44½	2 3/16	½ x ¼ 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 3/8	34	57 1/2	38 3/4	45	32 3/4	52 1/2	52 1/2	20	47 1/2	38 1/2	41	53 3/4	41	—	7/8	—	38 5/8	34	51 3/4	43 7/8	47 1/2	41 1/4	35 1/4	41 1/4	2025	2260
AF445SW	44½	1 15/16	½ x ¼ 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 3/8	34	57 1/2	38 3/4	45	32 3/4	29	29 1/2	23 1/2	47 1/2	38 1/2	41	53 3/4	41	—	7/8	—	38 5/8	34	51 3/4	43 7/8	47 1/2	41 1/4	35 1/4	41 1/4	1545	1730

Arrangement #1 Dimensions — Refer to Line 1
Arrangement #3 Dimensions — Refer to Line 2

AF490SW

TIP SPEED (FPM) = 12.83 x RPM

WHEEL DIAMETER = 49"

OUTLET 13.80 Sq. Ft. Inside; 52 5/8" x 38 1/2" Outside

INLET 14.61 Sq. Ft. Inside; 52 1/4" Dia. Outside

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

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

Minimum horsepower required to start fan — 5 HP

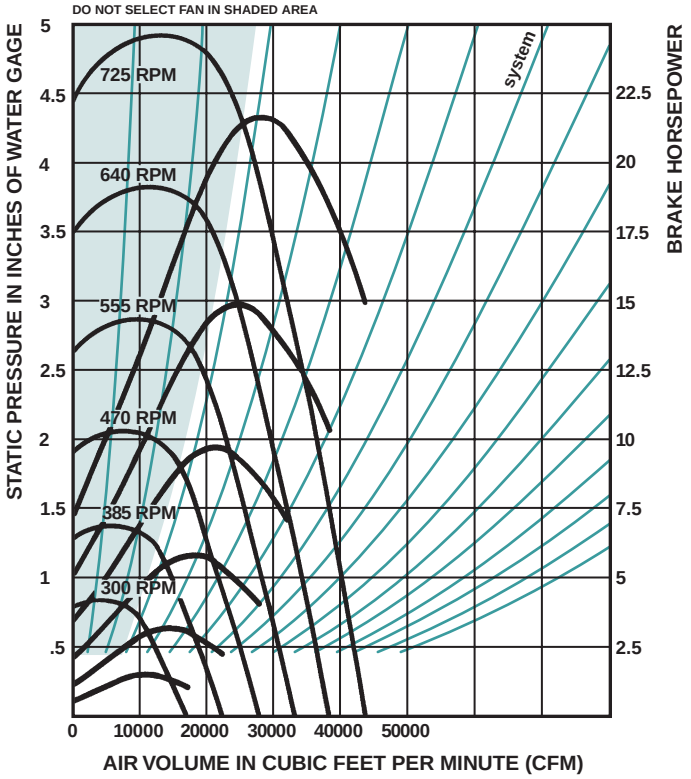
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11040	800	**232**	**0.67**	**252**	**0.89**	**270**	**1.11**	**287**	**1.34**	**304**	**1.58**	—	—	—	—	—	—	—	—	—	—
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

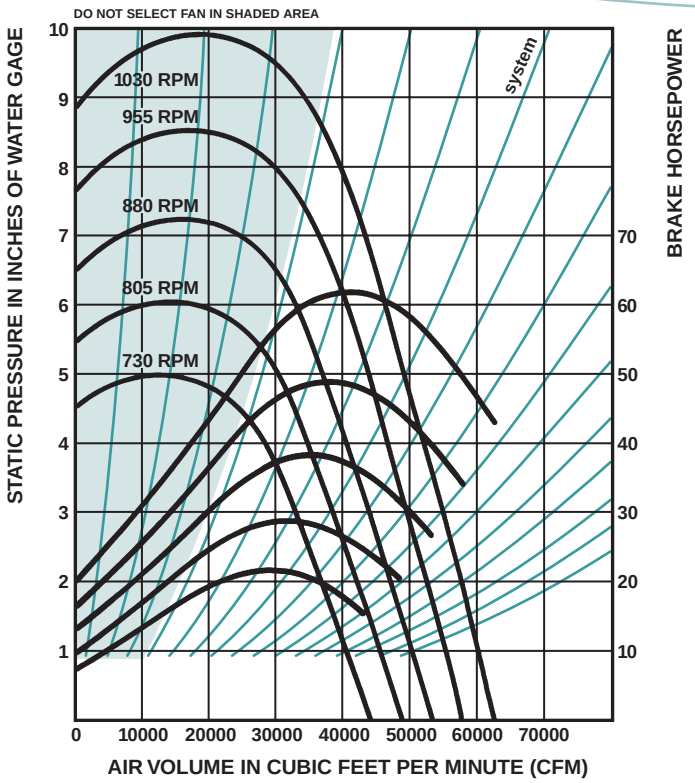
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17940	1300	**496**	**6.85**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19320	1400	**509**	**7.46**	**548**	**9.18**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
33120	2400	**923**	**44.17**	**946**	**47.20**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
35880	2600	**949**	**48.40**	**970**	**51.55**	**991**	**54.76**	**1012**	**58.02**	**1034**	**61.31**	—	—	—	—	—	—	—	—	—	—
38640	2800	978	53.10	**998**	**56.34**	**1017**	**59.65**	**1037**	**63.03**	**1057**	**66.47**	**1096**	**73.47**	—	—	—	—	—	—	—	—
41400	3000	1010	58.33	1028	61.67	1047	65.07	**1065**	**68.53**	**1083**	**72.06**	**1120**	**79.30**	**1156**	**86.75**	**1193**	**94.32**	—	—	—	—
44160	3200	1043	64.01	1061	67.51	1078	71.04	1096	74.61	1113	78.22	**1147**	**85.64**	**1182**	**93.29**	**1216**	**101.16**	**1250**	**109.18**	—	—
46920	3400	1077	70.09	1095	73.79	1111	77.50	1128	81.22	1145	84.97	1177	92.59	**1210**	**100.41**	**1242**	**108.47**	**1274**	**116.74**	**1306**	**125.18**
49680	3600	1112	76.50	1129	80.46	1146	84.39	1162	88.32	1178	92.24	1209	100.15	1240	108.19	1271	116.42	**1301**	**124.86**	**1332**	**133.52**
52440	3800	1148	83.24	1165	87.46	1181	91.66	1196	95.82	1212	99.97	1242	108.26	1272	116.59	1302	125.05	1331	133.67	**1360**	**142.50**
55200	4000	1184	90.28	1200	94.79	1216	99.26	1232	103.69	1247	108.10	1277	116.84	1306	125.56	1334	134.33	1362	143.19	1390	152.21
57960	4200	1221	97.65	1237	102.43	1252	107.19	1267	111.90	1282	116.58	1311	125.85	1340	135.03	1367	144.19	1394	153.38	1421	162.65
60720	4400	1257	105.37	1273	110.43	1289	115.46	1304	120.46	1318	125.42	1347	135.24	1375	144.94	1402	154.56	1428	164.15	1454	173.77
63480	4600	1295	113.50	1310	118.80	1325	124.10	1340	129.37	1355	134.61	1383	145.00	1410	155.25	1436	165.38	1462	175.45	1488	185.47
66240	4800	1332	122.06	1347	127.60	1362	133.14	1377	138.67	1391	144.19	1419	155.13	1446	165.94	1472	176.63	1497	187.21	1522	197.72
69000	5000	1370	131.11	1385	136.86	1399	142.63	1414	148.40	1428	154.17	1455	165.65	1482	177.03	1508	188.28	1533	199.41	1557	210.44
71760	5200	1408	140.69	1422	146.63	1437	152.61	1451	158.61	1465	164.61	1492	176.60	1518	188.52	1544	200.34	—	—	—	—
74520	5400	1446	150.83	1460	156.95	1475	163.12	1488	169.32	1502	175.54	1529	188.01	1555	200.46	—	—	—	—	—	—

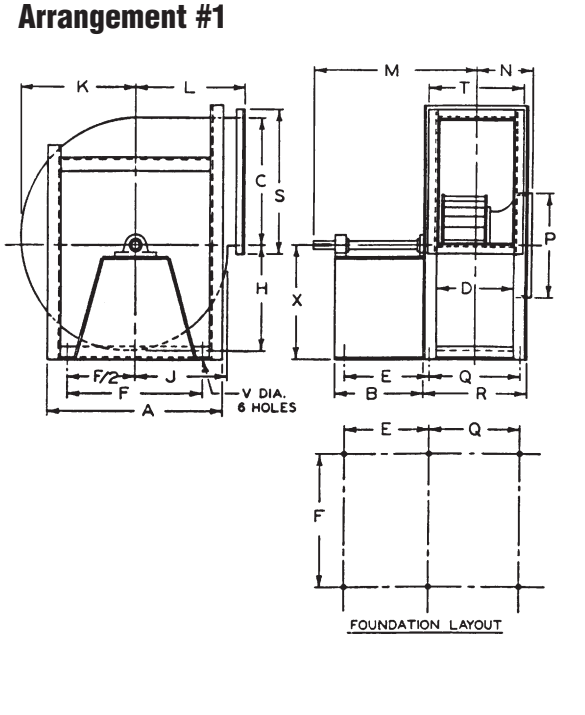
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

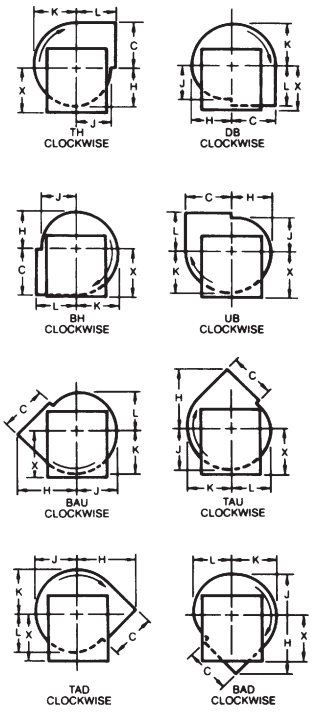
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers



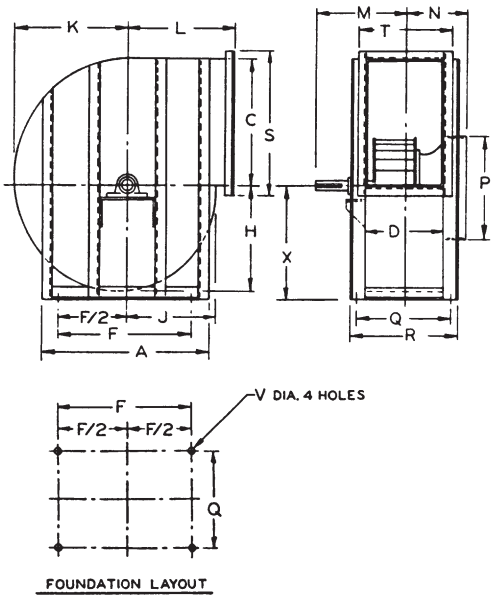


Arrangement #1





Arrangement #3



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

Model No.	Whl. Dia.	Shaft Ext. Dia.	Keyway	Shaft Ext. Dia.	Keyway	A	B	C	D	E	F	TH, DB, BH, UB Straight Discharge H	J	K	L	TH, DB, BH, UB Angular Discharge H	J	K	L	Class I M	Class II M	N	P	Q	R	S	T	U	V	W	X TH	X DB	X BH	X UB	X BAU	X TAU	X TAD	X BAD	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
		Class I		Class II																																			
AF490SW	49	2 11/16	5/8 x 5/16 x 6	2 15/16	3/4 x 3/8 x 6	63 3/4	26	52 5/8	38 1/2	26	51 3/4	40 1/8	33 1/2	45 3/4	37 1/4	63 1/4	42 7/8	49 3/4	36 1/4	55 1/4	55 1/4	21 7/8	52 1/4	42	44 1/2	58 5/8	44 1/2	—	7/8	—	42 5/8	37 1/4	56 5/8	48 1/4	52 1/4	45 3/8	38 3/4	45 3/8	2530	2825
AF490SW	49	2 3/16	1/2 x 1/4 x 7	2 7/16	5/8 x 5/16 x 7	63 3/4	—	52 5/8	38 1/2	—	51 3/4	40 1/8	33 1/2	45 3/4	37 1/4	63 1/4	42 7/8	49 3/4	36 1/4	31	31 1/4	25 1/4	52 1/4	42	44 1/2	58 5/8	44 1/2	—	7/8	—	42 5/8	37 1/4	56 5/8	48 1/4	52 1/4	45 3/8	38 3/4	45 3/8	1930	2165

Arrangement #1 Dimensions — Refer to Line 1
Arrangement #3 Dimensions — Refer to Line 2

AF270DW

TIP SPEED (FPM) = 7.069 x RPM

WHEEL DIAMETER = 27"

OUTLET { 7.54 Sq. Ft. Inside; 29" x 38 1/8" Outside

INLET { 8.860 Sq. Ft. Inside; 29" Dia. Outside

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

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

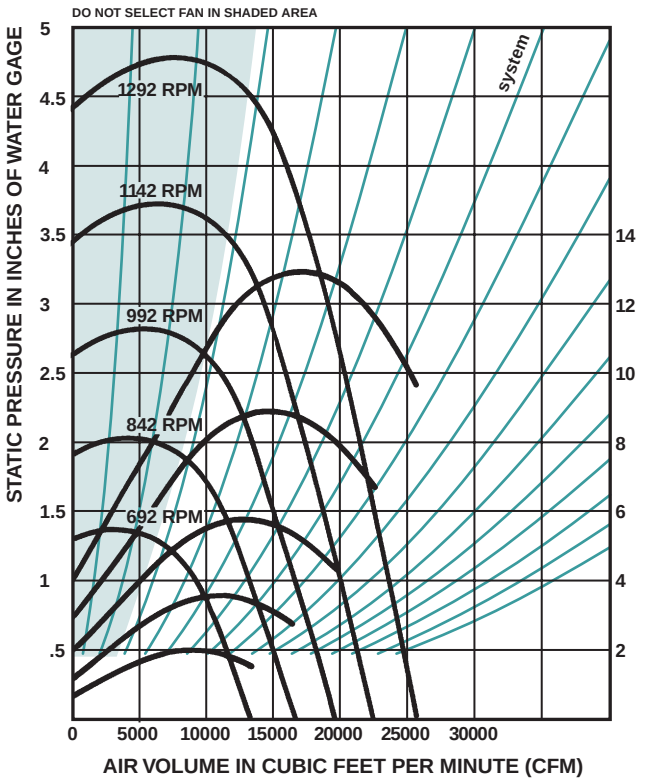
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6032	800	**396**	**0.36**	**433**	**0.48**	**468**	**0.62**	**503**	**0.76**	**538**	**0.91**	**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

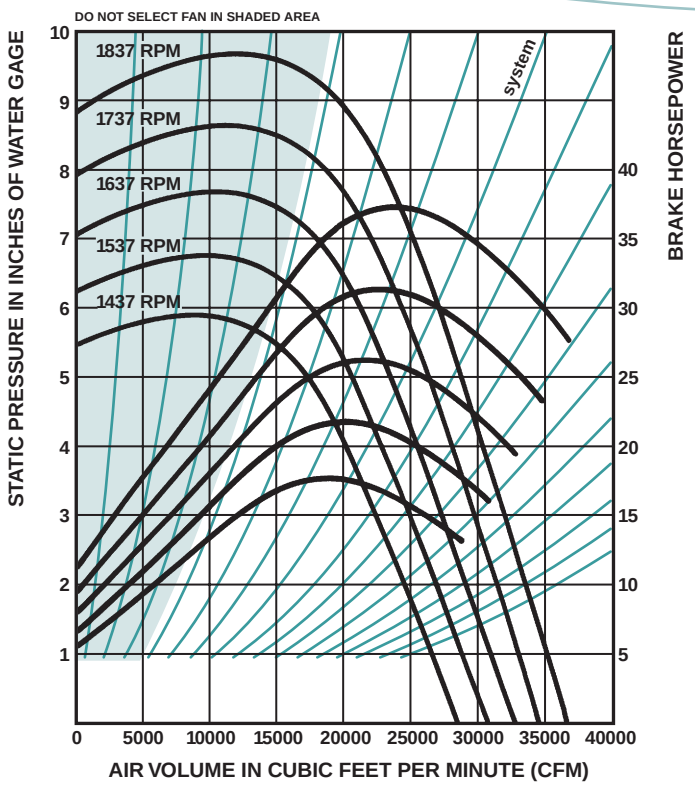
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9802	1300	**877**	**3.94**	**966**	**4.97**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10556	1400	**893**	**4.25**	**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.		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
18096	2400	**1637**	**25.49**	**1684**	**27.35**	**1732**	**29.24**	**1781**	**31.17**	**1830**	**33.18**	—	—	—	—	—	—	—	—	—	—
19604	2600	**1668**	**27.61**	**1711**	**29.57**	**1754**	**31.55**	**1798**	**33.55**	**1842**	**35.58**	**1932**	**39.74**	**2023**	**44.18**	—	—	—	—	—	—
21112	2800	**1707**	**29.88**	**1747**	**31.92**	**1787**	**33.99**	**1827**	**36.09**	**1867**	**38.21**	**1948**	**42.52**	**2030**	**46.92**	**2114**	**51.50**	**2200**	**56.41**	—	—
22620	3000	1752	32.35	1789	34.45	**1826**	**36.60**	**1863**	**38.77**	**1900**	**40.99**	**1975**	**45.49**	**2051**	**50.07**	**2127**	**54.74**	**2204**	**59.51**	**2283**	**64.48**
24128	3200	1802	35.06	1837	37.22	1871	39.42	1906	41.66	**1941**	**43.94**	**2010**	**48.61**	**2080**	**53.38**	**2151**	**58.24**	**2222**	**63.17**	**2294**	**68.18**
25636	3400	1854	38.01	1888	40.24	1921	42.50	1954	44.80	1986	47.14	**2052**	**51.93**	**2117**	**56.85**	**2183**	**61.89**	**2249**	**67.02**	**2315**	**72.22**
27144	3600	1910	41.22	1942	43.51	1973	45.84	2004	48.20	2036	50.60	2098	55.50	**2159**	**60.56**	**2221**	**65.74**	**2283**	**71.04**	**2345**	**76.43**
28652	3800	1967	44.67	1998	47.04	2028	49.44	2058	51.87	2088	54.34	2147	59.37	2206	64.53	2264	69.84	**2323**	**75.27**	**2381**	**80.82**
30160	4000	2025	48.36	2055	50.83	2085	53.31	2114	55.82	2142	58.36	2199	63.52	2256	68.81	2311	74.23	2367	79.79	**2423**	**85.47**
31668	4200	2085	52.31	2114	54.87	2143	57.44	2171	60.04	2199	62.66	2254	67.97	2308	73.40	2362	78.94	2415	84.61	2468	90.41
33176	4400	2146	56.51	2174	59.17	2202	61.84	2230	64.53	2257	67.24	2310	72.72	2362	78.29	2414	83.97	2465	89.77	2516	95.68
34684	4600	2207	60.96	2235	63.73	2262	66.51	2289	69.30	2316	72.10	2368	77.76	2419	83.50	2469	89.33	2518	95.26	2567	101.30
36192	4800	2269	65.68	2296	68.56	2323	71.45	2350	74.34	2376	77.25	2427	83.10	2476	89.02	2525	95.01	2573	101.09	2620	107.26
37700	5000	2331	70.66	2358	73.66	2385	76.66	2411	79.67	2436	82.68	2486	88.74	2535	94.84	2582	101.01	2629	107.25	2675	113.58
39208	5200	2394	75.92	2421	79.04	2447	82.16	2473	85.28	2498	88.40	2547	94.67	2594	100.98	2641	107.34	2687	113.76	2732	120.25
40716	5400	2457	81.47	2484	84.71	2509	87.94	2535	91.18	2559	94.42	2608	100.91	2655	107.43	2700	113.99	2745	120.60	2789	127.27

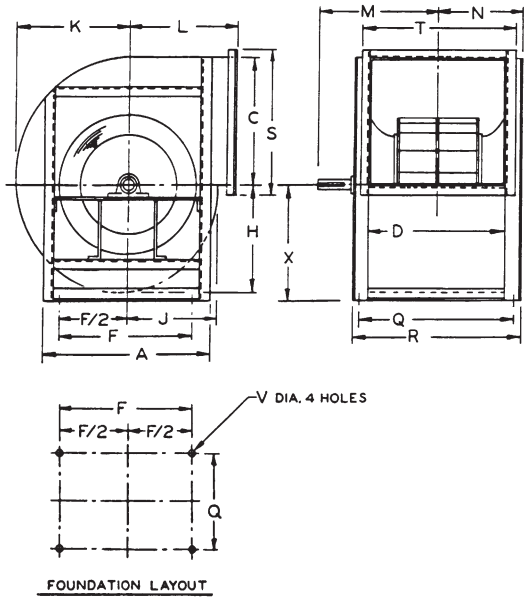
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

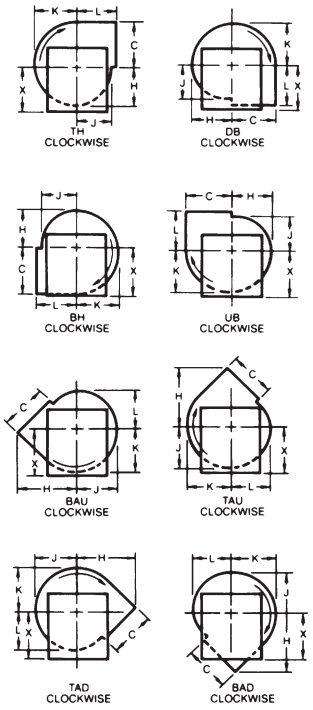
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers





Arrangement #3





Arrangement #3 — DWDI — Class I & II

Model No.	Whl. 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	N	P	Q	R	S	T	U	V	W	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
		Class I		Class II						H	J	K	L	H	J	K	L	M	M											
AF270DW	27	1 15/16	1/2 x 1/4 x 6	2 9/16	1/2 x 1/4 x 6	38 1/2	29	38 1/8	28 1/2	22 1/8	18 1/2	25 1/4	21 5/8	35 5/8	23 5/8	27 3/8	20	29	29 7/8	21 1/16	—	40 3/8	42 1/8	33	42 1/8	—	7/8	—	23 5/8	21 5/8

	TH	DB	BH	UB	BAU	TAU	TAD	BAD
	X				X			
AF270DW	32	26 3/4	28 7/8	25 1/8	21 1/2	25 1/8	900	945

AF300DW

TIP SPEED (FPM) = 7.854 x RPM

WHEEL DIAMETER = 30"

OUTLET { 9.31 Sq. Ft. Inside; 32 1/4" x 41 3/4" Outside

INLET { 10.939 Sq. Ft. Inside; 32 1/4" Dia. Outside

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

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

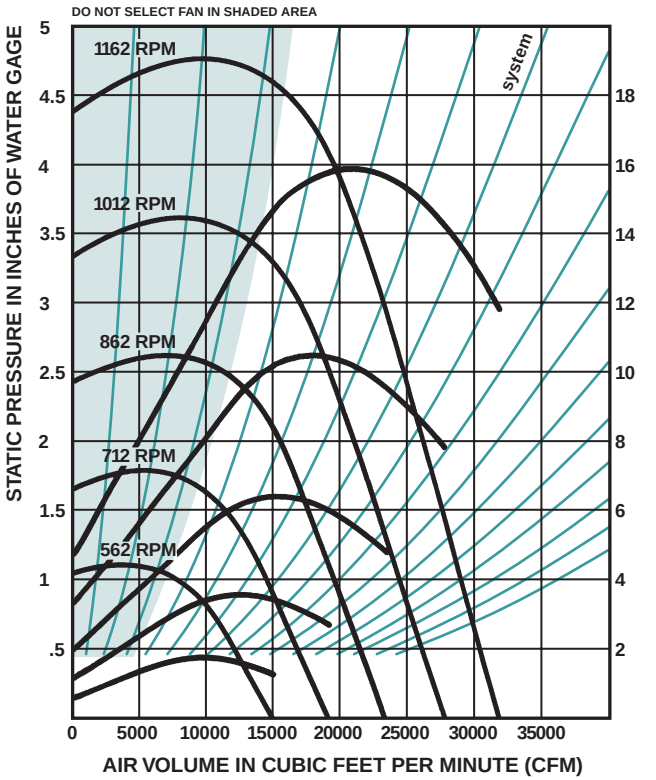
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7448	800	**356**	**0.44**	**389**	**0.60**	**421**	**0.76**	**452**	**0.94**	**484**	**1.12**	**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

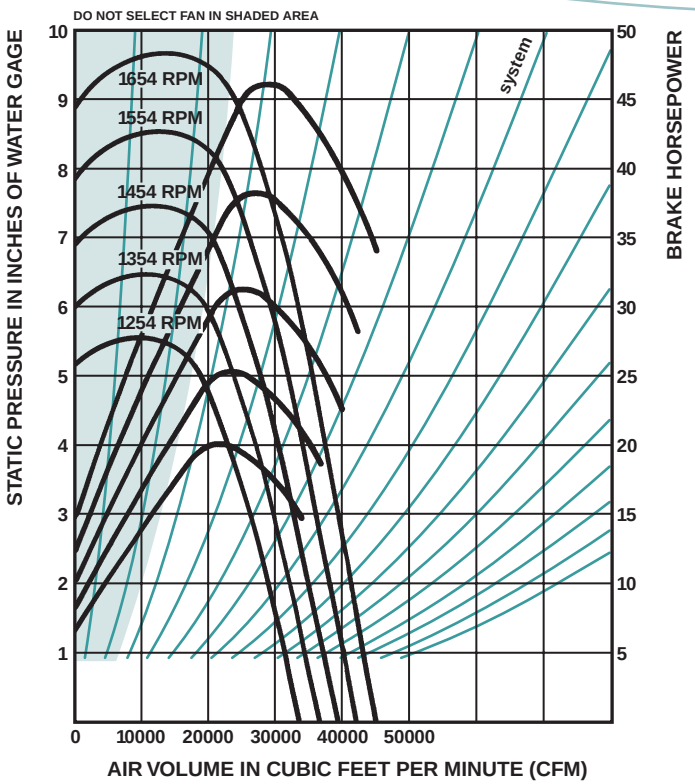
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12103	1300	**789**	**4.87**	**869**	**6.13**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13034	1400	**804**	**5.25**	**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	12.82	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	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22344	2400	**1473**	**31.47**	**1516**	**33.76**	**1559**	**36.10**	**1603**	**38.48**	**1647**	**40.96**	—	—	—	—	—	—	—	—	—	—
24206	2600	**1501**	**34.09**	**1540**	**36.50**	**1579**	**38.95**	**1618**	**41.42**	**1658**	**43.92**	**1738**	**49.06**	**1821**	**54.54**	—	—	—	—	—	—
26068	2800	**1536**	**36.89**	**1572**	**39.40**	**1608**	**41.96**	**1644**	**44.56**	**1680**	**47.18**	**1753**	**52.49**	**1827**	**57.93**	**1903**	**63.58**	**1980**	**69.64**	—	—
27930	3000	1577	39.94	1610	42.53	**1644**	**45.18**	**1677**	**47.87**	**1710**	**50.60**	**1778**	**56.16**	**1846**	**61.82**	**1914**	**67.57**	**1984**	**73.47**	**2055**	**79.61**
29792	3200	1621	43.28	1653	45.95	1684	48.67	1715	51.44	**1747**	**54.25**	**1809**	**60.01**	**1872**	**65.90**	**1936**	**71.90**	**2000**	**77.98**	**2064**	**84.17**
31654	3400	1669	46.93	1699	49.67	1729	52.47	1758	55.31	1788	58.19	**1847**	**64.11**	**1905**	**70.19**	**1964**	**76.41**	**2024**	**82.74**	**2084**	**89.16**
33516	3600	1719	50.88	1747	53.72	1776	56.59	1804	59.50	1832	62.47	1888	68.52	**1943**	**74.76**	**1999**	**81.16**	**2055**	**87.70**	**2111**	**94.35**
35378	3800	1770	55.14	1798	58.07	1825	61.04	1852	64.04	1879	67.08	1932	73.29	1985	79.67	2038	86.22	**2091**	**92.93**	**2143**	**99.78**
37240	4000	1823	59.71	1850	62.75	1876	65.82	1902	68.91	1928	72.05	1979	78.42	2030	84.95	2080	91.65	2130	98.50	**2180**	**105.51**
39102	4200	1877	64.58	1903	67.74	1929	70.92	1954	74.12	1979	77.36	2028	83.92	2077	90.61	2125	97.46	2173	104.46	2221	111.62
40964	4400	1931	69.76	1957	73.05	1982	76.35	2007	79.67	2031	83.01	2079	89.78	2126	96.66	2173	103.67	2219	110.82	2265	118.12
42826	4600	1986	75.26	2012	78.68	2036	82.11	2060	85.56	2084	89.02	2131	96.00	2177	103.09	2222	110.28	2266	117.60	2310	125.06
44688	4800	2042	81.08	2067	84.64	2091	88.21	2115	91.78	2138	95.37	2184	102.59	2229	109.90	2272	117.29	2316	124.80	2358	132.42
46550	5000	2098	87.23	2123	90.94	2146	94.64	2170	98.35	2193	102.08	2238	109.55	2281	117.09	2324	124.71	2366	132.41	2408	140.22
48412	5200	2155	93.73	2179	97.58	2202	101.43	2225	105.28	2248	109.14	2292	116.88	2335	124.67	2377	132.52	2418	140.44	2458	148.46
50274	5400	2212	100.58	2235	104.58	2258	108.57	2281	112.57	2304	116.57	2347	124.59	2389	132.64	2430	140.73	2471	148.89	2510	157.12

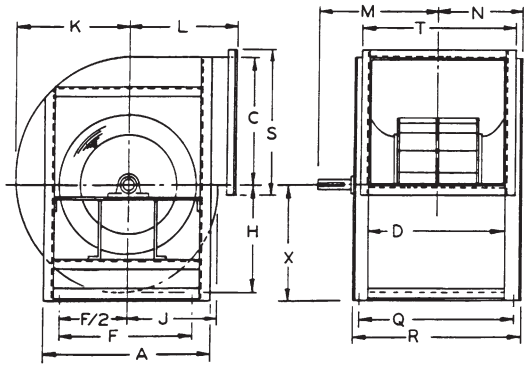
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

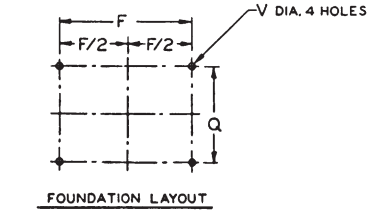
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers

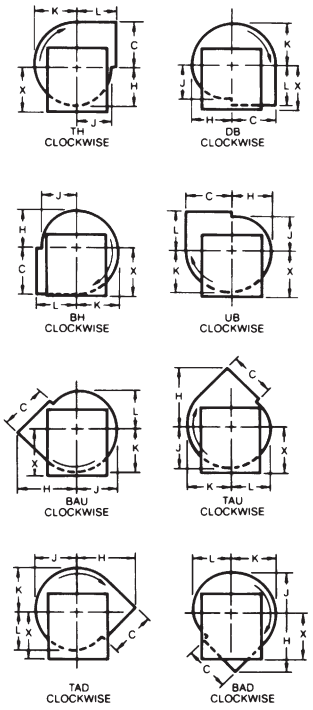




Arrangement #3







Arrangement #3 — DWDI — Class I & II

Model No.	Whl. Dia.	Shaft Ext. Dia. (Class I)	Keyway (Class I)	Shaft Ext. Dia. (Class II)	Keyway (Class II)	A	C	D	F	TH, DB, BH, UB Straight Discharge H	J	K	L	TH, DB, BH, UB Angular Discharge H	J	K	L	Class I M	Class II M	N	P	Q	R	S	T	U	V	W	TH X	DB X	BH X	UB X	BAU X	TAU X	TAD X	BAD X	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
AF300DW	30	1 15/16	1/2 x 1/4 x 6	2 7/16	5/8 x 5/16 x 6	41 3/4	32 1/4	41 3/4	31 3/4	24 5/8	20 1/2	28 1/8	23 3/4	39 3/8	26 3/8	30 1/2	22 1/4	30 7/8	32	22 7/8	—	44	45 3/4	36 1/4	45 3/4	—	7/8	—	26 1/8	23 3/4	35 1/4	29 5/8	32	27 7/8	23 3/4	27 7/8	1080	1950

AF330DW

TIP SPEED (FPM) = 8.639 x RPM

WHEEL DIAMETER = 33"

OUTLET { 11.27 Sq. Ft. Inside; 35 3/8" x 46 3/8" Outside

INLET { 13.236 Sq. Ft. Inside; 35 3/8" Dia. Outside

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

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

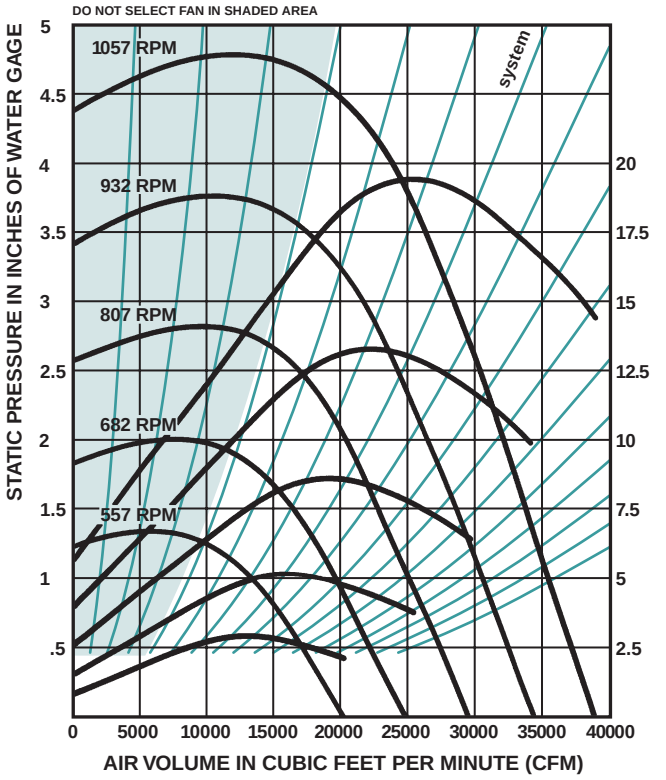
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9016	800	**324**	**0.53**	**354**	**0.72**	**383**	**0.92**	**411**	**1.13**	**440**	**1.36**	**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

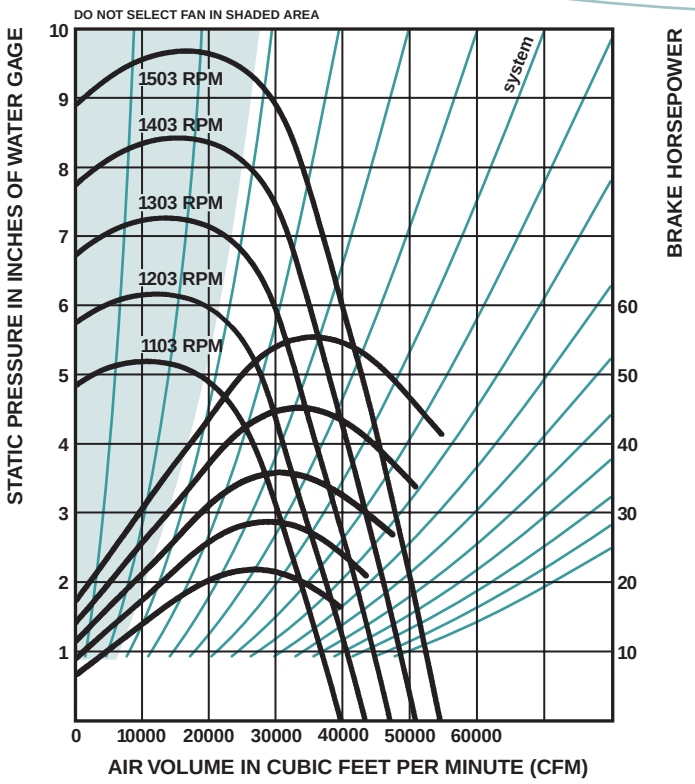
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14651	1300	**718**	**5.89**	**790**	**7.42**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15778	1400	**731**	**6.35**	**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	1632	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**	**1527**	**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

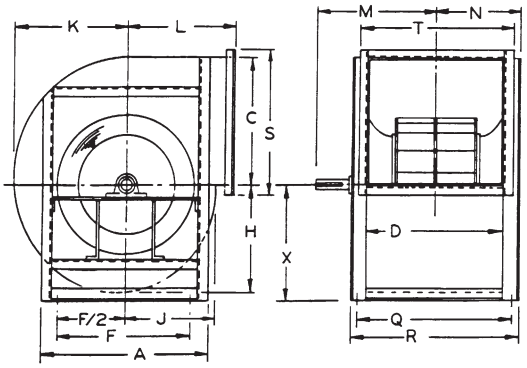
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

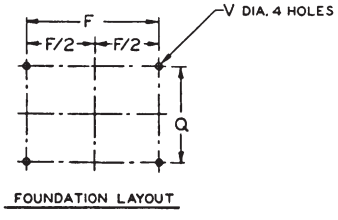
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers

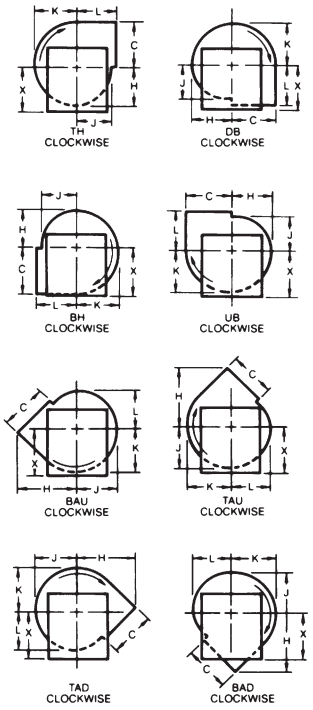




Arrangement #3







Arrangement #3 — DWDI — Class I & II

Model No.	Whl. 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	N	P	Q	R	S	T	U	V	W	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
		Class I		Class II						H	J	K	L	H	J	K	L	M	M											
																													X	X
AF330DW	33	2 3/16	1/2 x 1/4 x 6	2 7/16	5/8 x 5/16 x 6	45 7/8	35 3/8	46 3/8	34 7/8	27 1/8	22 1/2	30 7/8	25 3/4	43	28 7/8	33 1/2	24 3/8	33 1/4	34 3/8	25 11/16	—	49 1/8	51 3/8	40 3/8	51 3/8	—	7/8	—	29 1/8	25 3/4	38 7/8	32 7/8	35 1/2	30 7/8	26 3/8	30 7/8	1195	1300

AF365DW

TIP SPEED (FPM) = 9.556 x RPM

WHEEL DIAMETER = 36 1/2"

OUTLET 13.788 Sq. Ft. Inside, 39 1/4" x 51" Outside

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

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

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

Minimum horsepower required to start fan — 1 1/2 HP

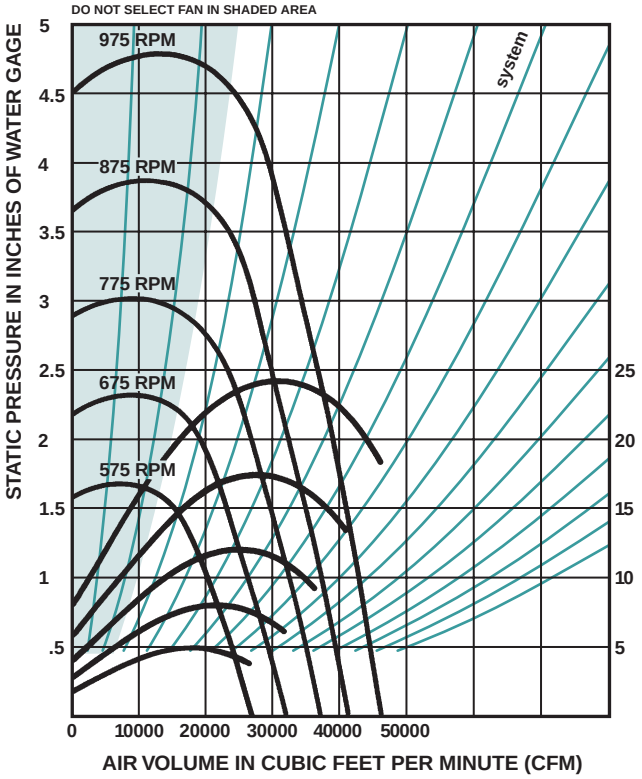
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11030	800	**299**	**0.68**	**326**	**0.91**	**353**	**1.15**	**378**	**1.40**	**403**	**1.66**	**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	**476**	**2.79**	**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	5.59
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	4.02	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 1	8.98	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

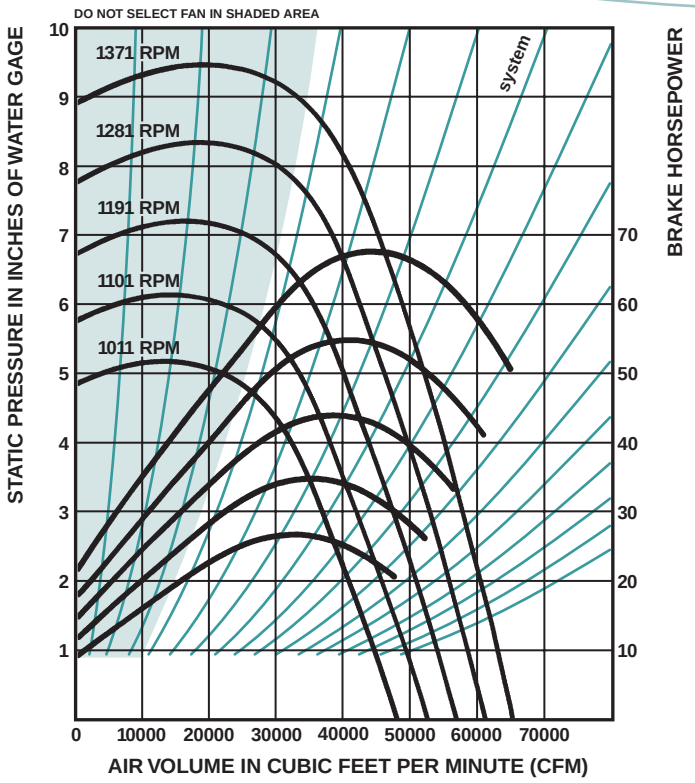
VOL. CFM	VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17924	1300	**658**	**7.20**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19303	1400	**672**	**7.79**	**729**	**9.70**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	54.31	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.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
33091	2400	**1227**	**46.52**	**1260**	**49.90**	**1294**	**53.38**	—	—	—	—	—	—	—	—	—	—	—	—	—	—
35849	2600	**1253**	**50.62**	**1284**	**54.06**	**1315**	**57.60**	**1346**	**61.22**	**1377**	**64.92**	—	—	—	—	—	—	—	—	—	—
38606	2800	1285	55.25	**1314**	**58.76**	**1343**	**62.36**	**1372**	**66.04**	**1401**	**69.81**	**1458**	**77.58**	**1516**	**85.68**	—	—	—	—	—	—
41364	3000	1320	60.35	1348	63.99	1375	67.69	1402	71.44	**1429**	**75.27**	**1483**	**83.17**	**1537**	**91.38**	**1590**	**99.89**	—	—	—	—
44122	3200	1358	65.85	1385	69.67	1410	73.52	1436	77.40	1462	81.34	**1512**	**89.38**	**1563**	**97.71**	**1613**	**106.34**	**1663**	**115.26**	**1714**	**124.44**
46879	3400	1399	71.71	1424	75.73	1448	79.77	1473	83.83	1497	87.92	1545	96.21	1593	104.71	**1641**	**113.46**	**1688**	**122.49**	**1735**	**131.81**
49637	3600	1440	77.95	1464	82.17	1488	86.42	1512	90.68	1535	94.96	1581	103.59	1627	112.34	1672	121.28	**1717**	**130.44**	**1762**	**139.87**
52394	3800	1484	84.58	1507	89.01	1530	93.46	1552	97.93	1575	102.41	1619	111.43	1663	120.53	1706	129.74	1749	139.11	**1792**	**148.69**
55152	4000	1528	91.65	1550	96.27	1572	100.92	1594	105.59	1616	110.28	1659	119.71	1701	129.20	1742	138.77	1783	148.43	1824	158.24
57910	4200	1573	99.17	1595	103.99	1616	108.84	1638	113.70	1659	118.59	1700	128.43	1741	138.33	1781	148.29	1820	158.32	1860	168.44
60667	4400	1619	107.18	1640	112.19	1661	117.23	1682	122.29	1702	127.38	1742	137.61	1782	147.92	1821	158.29	1859	168.72	1897	179.21
63425	4600	1666	115.68	1686	120.89	1707	126.13	1727	131.38	1747	136.66	1786	147.29	1824	158.00	1862	168.78	1899	179.61	1936	190.51
66182	4800	1713	124.70	1733	130.11	1753	135.54	1773	141.00	1792	146.47	1830	157.49	1868	168.59	1904	179.77	1941	191.01	1976	202.32
68940	5000	1761	134.25	1781	139.87	1800	145.50	1819	151.16	1838	156.83	1876	168.23	1912	179.73	1948	191.30	1983	202.95	2018	214.66
71698	5200	1809	144.35	1828	150.18	1848	156.02	1866	161.88	1885	167.75	1921	179.55	1957	191.43	1992	203.39	2026	215.44	2060	227.55
74455	5400	1858	155.03	1877	161.07	1895	167.12	1914	173.18	1932	179.26	1968	191.46	2003	203.73	2037	216.09	2071	228.52	—	—

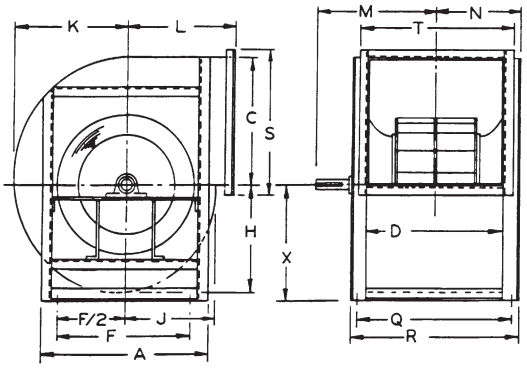
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

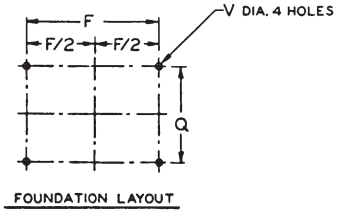
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers

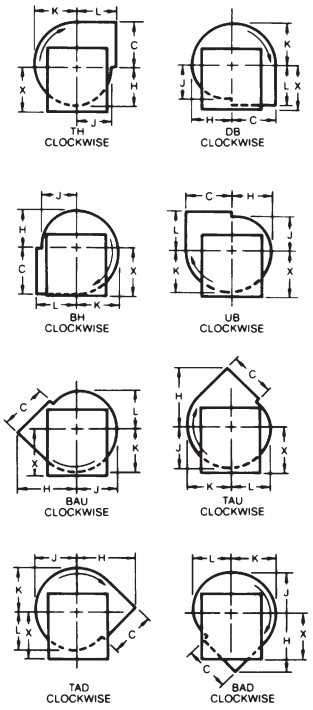




Arrangement #3







Arrangement #3 — DWDI — Class I & II

Model No.	Whl. 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	N	P	Q	R	S	T	U	V	W	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
		Class I		Class II						H	J	K	L	H	J	K	L	M	M											
AF365DW	36½	2 3/16	½ x ¼ x 6	2 7/16	5/8 x 5/16 x 6	49½	39¼	51	38½	30	24 7/8	34⅛	28 1/8	47 3/8	32	37⅛	27	36 5/8	36 5/8	28	—	53¾	56	44¼	56	—	⅞	—	32	28 1/8	42 3/4	36 1/8	39⅛	34	29	34	1465	1625

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

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

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

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

Minimum horsepower required to start fan — 2 HP

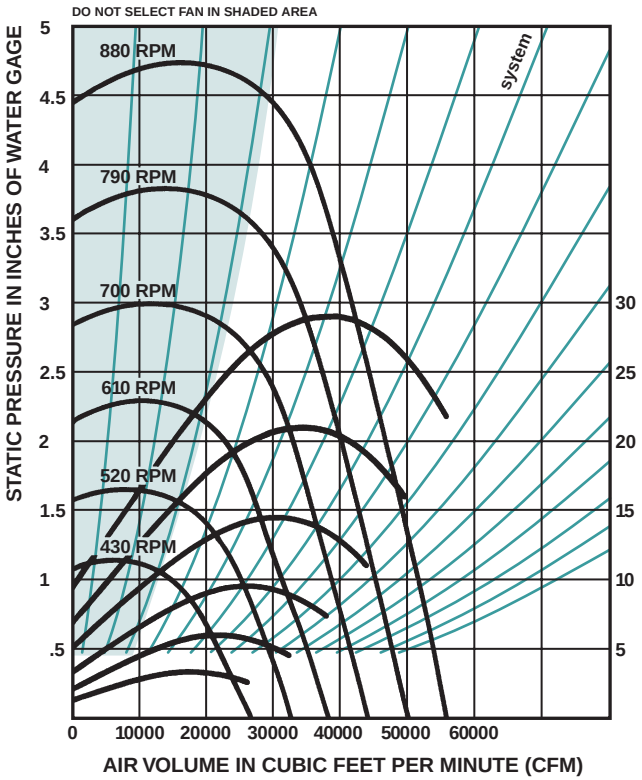
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13413	800	**271**	**0.82**	**296**	**1.11**	**320**	**1.40**	**343**	**1.70**	**366**	**2.02**	**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 1	8.42	802	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

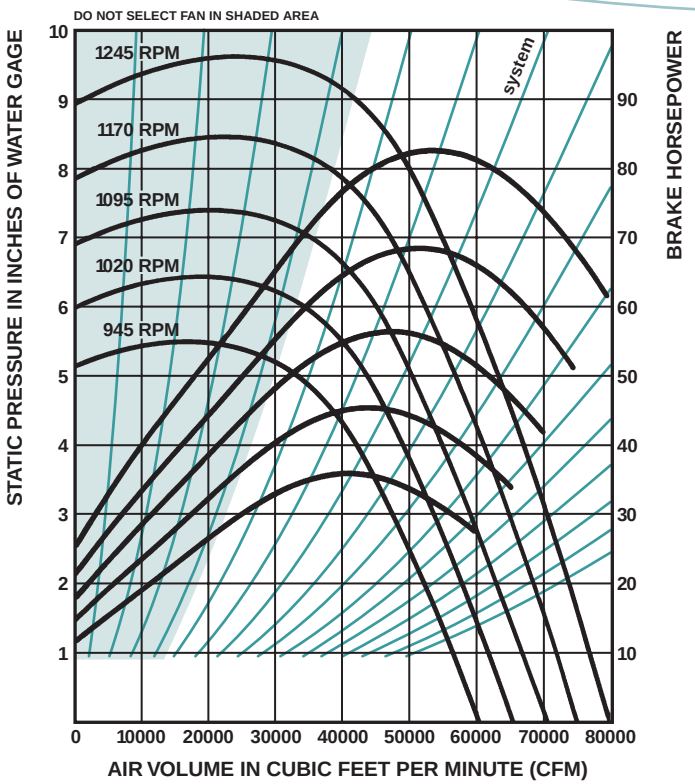
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
21796	1300	**596**	**8.76**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23472	1400	**609**	**9.48**	**661**	**11.79**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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**	—	—	—	—
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**	**1027**	**44.46**	**1061**	**48.26**
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

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
40238	2400	**1112**	**56.57**	**1143**	**60.68**	**1173**	**64.91**	—	—	—	—	—	—	—	—	—	—	—	—	—	—
43592	2600	**1137**	**61.55**	**1165**	**65.74**	**1193**	**70.04**	**1221**	**74.44**	**1249**	**78.95**	—	—	—	—	—	—	—	—	—	—
46945	2800	1165	67.18	**1192**	**71.46**	**1218**	**75.83**	**1244**	**80.31**	**1270**	**84.89**	**1322**	**94.34**	**1374**	**104.19**	—	—	—	—	—	—
50298	3000	1197	73.39	1222	77.82	1247	82.31	1272	86.88	**1296**	**91.53**	**1345**	**101.14**	**1393**	**111.12**	**1442**	**121.46**	—	—	—	—
53651	3200	1232	80.07	1256	84.72	1279	89.40	1302	94.12	1325	98.91	**1371**	**108.69**	**1417**	**118.82**	**1463**	**129.31**	**1508**	**140.16**	**1554**	**151.33**
57004	3400	1268	87.20	1291	92.09	1313	97.00	1335	101.94	1358	106.92	1401	117.00	1445	127.33	**1488**	**137.97**	**1531**	**148.95**	**1574**	**160.28**
60358	3600	1306	94.78	1328	99.92	1349	105.08	1371	110.27	1392	115.47	1434	125.97	1475	136.61	1516	147.48	**1557**	**158.62**	**1597**	**170.08**
63711	3800	1345	102.86	1366	108.24	1387	113.65	1408	119.08	1428	124.53	1468	135.50	1508	146.57	1547	157.77	1586	169.17	**1625**	**180.81**
67064	4000	1385	111.45	1406	117.07	1426	122.72	1446	128.40	1465	134.10	1504	145.57	1542	157.11	1580	168.75	1617	180.50	1654	192.43
70417	4200	1426	120.60	1446	126.46	1466	132.35	1485	138.27	1504	144.21	1542	156.17	1578	168.21	1615	180.33	1651	192.52	1686	204.83
73770	4400	1468	130.33	1487	136.43	1506	142.55	1525	148.71	1544	154.89	1580	167.34	1616	179.88	1651	192.49	1686	205.17	1720	217.93
77124	4600	1510	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	189.73	1692	196.85	1709	203.99	1742	218.34	1775	232.79	1806	247.34	1838	261.98	1868	276.71
90536	5400	1685	188.52	1702	195.86	1719	203.22	1736	210.59	1752	217.98	1785	232.82	1816	247.75	1847	262.77	1878	277.88	—	—

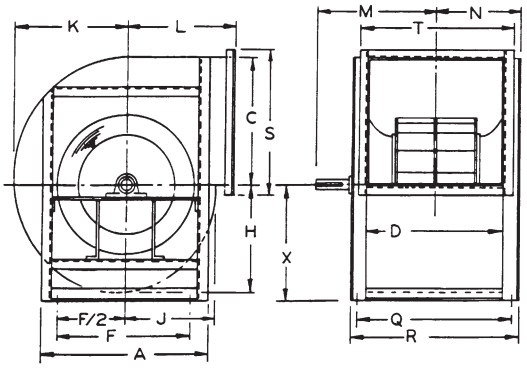
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

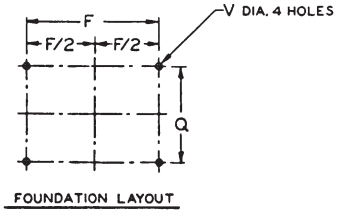
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers

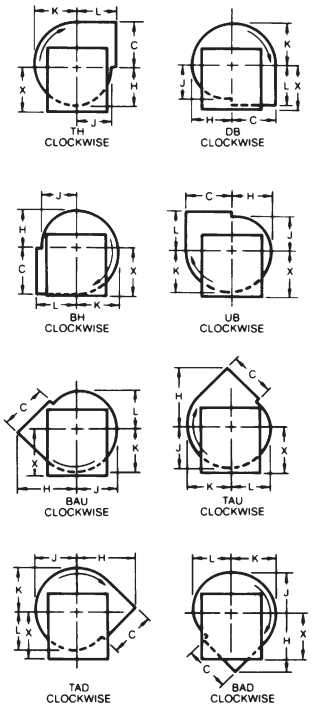




Arrangement #3







Arrangement #3 — DWDI — Class I & II

Model No.	Whl. 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	N	P	Q	R	S	T	U	V	W	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
		Class I		Class II						H	J	K	L	H	J	K	L	M	M											
																													X	X
AF402DW	40¼	2⅜16	½ x ¼ x 7	2⅞16	⅝ x ⅝16 x 7	54½	43¼	56⅜	42½	33	27½	37⅝	30¾	52⅛	35¼	40¾	29¾	40¼	40½	31⅝16	—	60⅛	62⅝	49¼	62⅝	—	⅞	—	35½	30¾	47¼	40⅛	43¼	37¾	32¼	37¾	1975	2180

AF445DW

TIP SPEED (FPM) = 11.65 x RPM

WHEEL DIAMETER = 44 1/2"

OUTLET { 20.494 Sq. Ft. Inside; 47 3/4" x 62 3/8" Outside

INLET { 24.10 Sq. Ft. Inside; 47 1/2" Dia. Outside

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

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

Minimum horsepower required to start fan — 3 HP

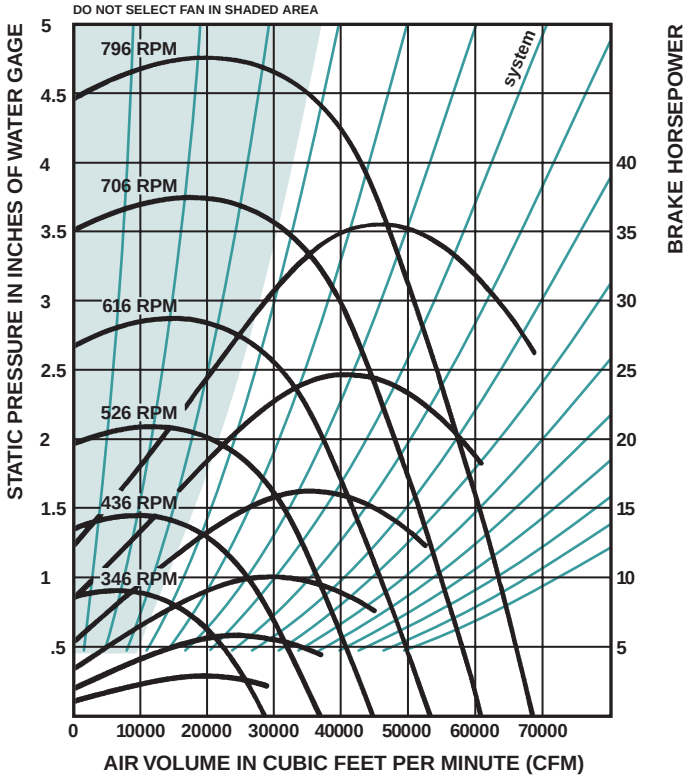
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16395	800	**245**	**1.01**	**268**	**1.35**	**289**	**1.71**	**310**	**2.08**	**331**	**2.47**	**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

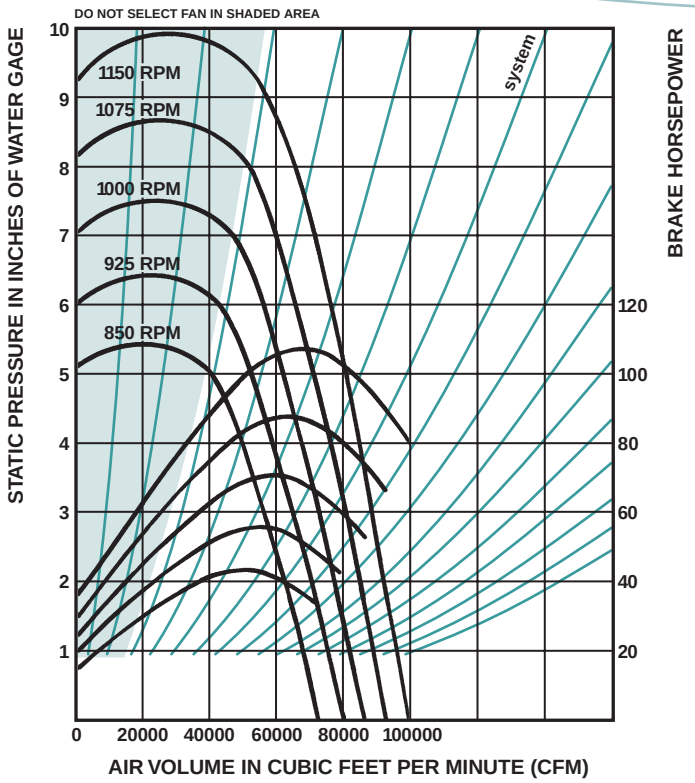
VOL. CFM	VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
26642	1300	**539**	**10.70**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28692	1400	**551**	**11.59**	**598**	**14.42**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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**	—	—	—	—
45087	2200	681	21.78	715	25.57	747	29.41	778	33.30	809	37.25	839	41.29	**869**	**45.48**	**899**	**49.83**	**929**	**54.34**	**959**	**58.99**
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	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
49186	2400	**1006**	**69.15**	**1034**	**74.17**	**1061**	**79.34**	—	—	—	—	—	—	—	—	—	—	—	—	—	—
53284	2600	**1028**	**75.24**	**1054**	**80.36**	**1079**	**85.61**	**1104**	**91.00**	**1130**	**96.50**	—	—	—	—	—	—	—	—	—	—
57383	2800	1054	82.12	**1078**	**87.35**	**1102**	**92.69**	**1125**	**98.16**	**1149**	**103.76**	**1196**	**115.32**	**1243**	**127.35**	—	—	—	—	—	—
61482	3000	1083	89.70	1106	95.12	1128	100.61	1150	106.19	**1172**	**111.88**	**1216**	**123.62**	**1260**	**135.83**	**1304**	**148.47**	**1348**	**161.61**	—	—
65581	3200	1114	97.87	1136	103.55	1157	109.27	1178	115.05	1199	120.90	**1240**	**132.86**	**1282**	**145.24**	**1323**	**158.06**	**1364**	**171.32**	**1406**	**184.97**
69680	3400	1147	106.59	1168	112.56	1188	118.57	1208	124.61	1228	130.69	1267	143.01	1307	155.64	**1346**	**168.64**	**1385**	**182.07**	**1423**	**195.91**
73778	3600	1181	115.86	1201	122.14	1221	128.45	1240	134.78	1259	141.15	1297	153.97	1334	166.99	1371	180.27	**1408**	**193.89**	**1445**	**207.90**
77877	3800	1217	125.72	1236	132.30	1255	138.92	1273	145.56	1292	152.22	1328	165.63	1364	179.15	1399	192.85	1434	206.78	**1469**	**221.01**
81976	4000	1253	136.23	1272	143.10	1290	150.01	1308	156.95	1325	163.92	1360	177.93	1395	192.04	1429	206.26	1463	220.63	1496	235.21
86075	4200	1290	147.41	1308	154.57	1326	161.77	1343	169.01	1360	176.27	1394	190.89	1428	205.61	1461	220.42	1493	235.33	1525	250.37
90174	4400	1328	159.31	1345	166.76	1363	174.25	1379	181.77	1396	189.33	1429	204.54	1461	219.87	1493	235.28	1525	250.78	1556	266.38
94272	4600	1366	171.95	1383	179.69	1400	187.47	1417	195.28	1433	203.13	1465	218.93	1496	234.85	1527	250.87	1558	266.98	1588	283.17
98371	4800	1405	185.35	1422	193.40	1438	201.47	1454	209.58	1470	217.71	1501	234.09	1532	250.59	1562	267.21	1592	283.92	1621	300.00
102470	5000	1444	199.55	1460	207.90	1476	216.28	1492	224.68	1508	233.11	1538	250.06	1568	267.14	1598	284.34	1627	300.00	1655	320.00
106569	5200	1484	214.56	1500	223.23	1515	231.91	1531	240.62	1546	249.35	1576	266.89	1605	284.54	1634	300.00	1662	320.00	1690	340.00
110668	5400	1524	230.43	1539	239.41	1555	248.40	1570	257.42	1585	266.45	1614	284.59	1643	300.00	1671	320.00	1698	340.00	—	—

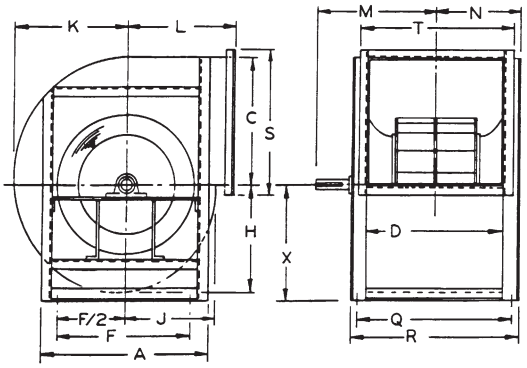
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

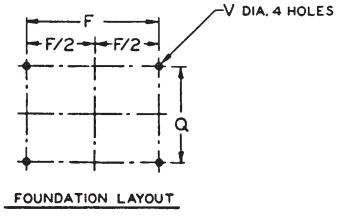
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers

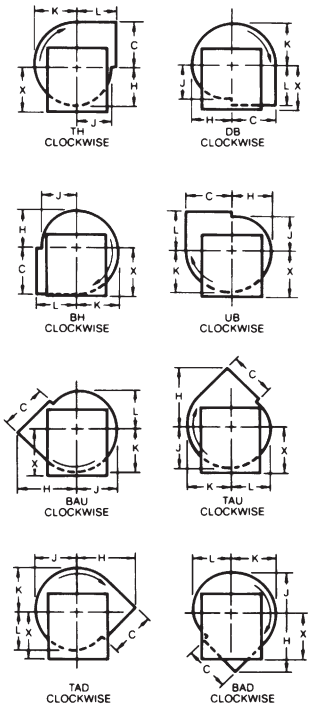




Arrangement #3







Arrangement #3 — DWDI — Class I & II

Model No.	Whl. Dia.	Class I Shaft Ext. Dia.	Class I Keyway	Class II Shaft Ext. Dia.	Class II Keyway	A	C	D	F	TH, DB, BH, UB Straight Discharge H	J	K	L	TH, DB, BH, UB Angular Discharge H	J	K	L	Class I M	Class II M	N	P	Q	R	S	T	U	V	W	X TH	X DB	X BH	X UB	X BAU	X TAU	X TAD	X BAD	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
AF445DW	44½	2 7/16	5/8 x 5/16 x 7	2 7/16	5/8 x 5/16 x 7	59	47 3/4	62 5/8	47	36 1/8	30 1/4	41 3/8	34	57 1/2	38 3/8	45	32 3/4	43 3/8	43 3/8	34 9/16	—	65 7/8	68 3/8	53 3/4	68 3/8	—	7/8	—	38 5/8	34	51 3/4	43 7/8	47 1/2	41 1/4	35 1/4	41 1/4	2325	2615

PEERLESS BLOWERS POWERFOIL PERFORMANCE TABLES

AF490DW

TIP SPEED (FPM) = 12.83 x RPM

WHEEL DIAMETER = 49"

OUTLET 24.85 Sq. Ft. Inside; 52 5/8" x 69 1/8" Outside

INLET 29.22 Sq. Ft. Inside; 52 1/4" Dia. Outside

MAX. HP = 114.7 (RPM/1000)³

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

Minimum horsepower required to start fan — 7½ HP

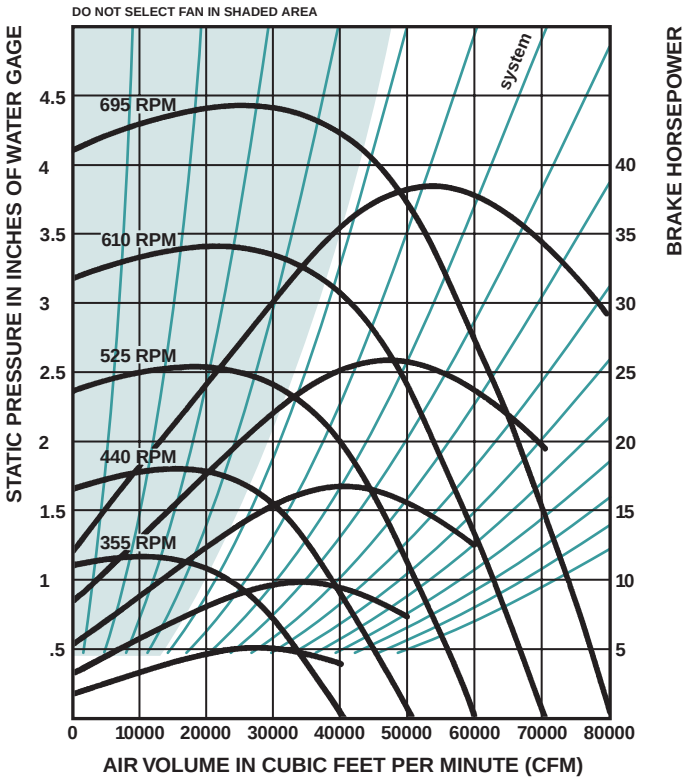
VOL. CFM	OUTLET VEL. FPM	.25 S.P.		.375 S.P.		.5 S.P.		.625 S.P.		.75 S.P.		.875 S.P.		1 S.P.		1.25 S.P.		1.5 S.P.		1.75 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
19880	800	**223**	**1.22**	**243**	**1.64**	**263**	**2.07**	**282**	**2.52**	**300**	**2.99**	**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	**355**	**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

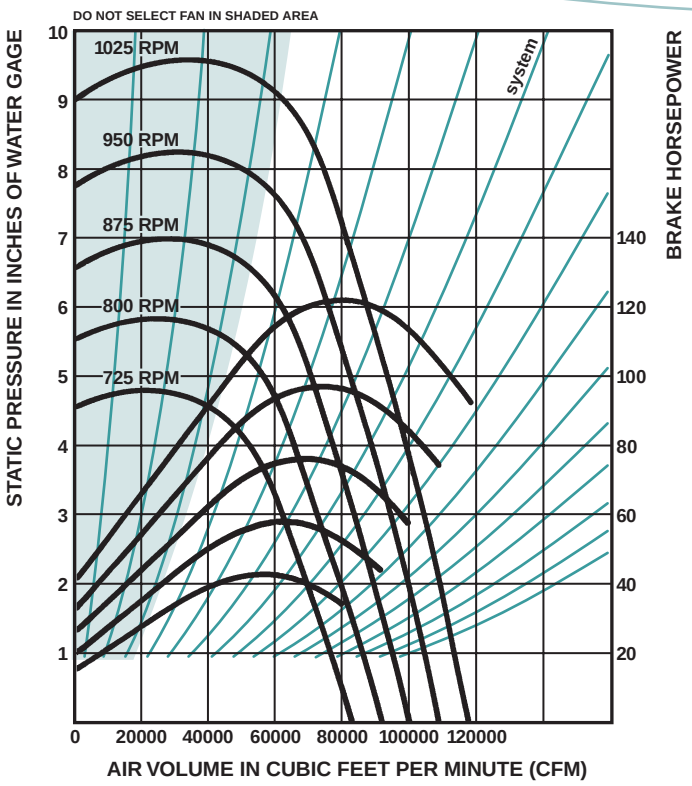
VOL. CFM	OUTLET VEL. FPM	2 S.P.		2.5 S.P.		3 S.P.		3.5 S.P.		4 S.P.		4.5 S.P.		5 S.P.		5.5 S.P.		6 S.P.		6.5 S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
32305	1300	**490**	**12.98**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
34790	1400	**500**	**14.05**	**543**	**17.48**	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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**	—	—	—	—
54670	2200	619	26.41	649	31.00	678	35.66	707	40.37	734	45.16	762	50.07	**789**	**55.14**	**817**	**60.42**	**844**	**65.88**	**871**	**71.53**
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	1052	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	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
59640	2400	**914**	**83.84**	**939**	**89.93**	**964**	**96.20**	—	—	—	—	—	—	—	—	—	—	—	—	—	—
64610	2600	**934**	**91.23**	**957**	**97.43**	**980**	**103.80**	**1003**	**110.33**	**1026**	**117.00**	—	—	—	—	—	—	—	—	—	—
69580	2800	957	99.57	**979**	**105.90**	**1000**	**112.38**	**1022**	**119.02**	**1043**	**125.80**	**1086**	**139.82**	**1129**	**154.41**	—	—	—	—	—	—
74550	3000	984	108.76	1004	115.33	1024	121.99	1044	128.76	**1065**	**135.66**	**1105**	**149.89**	**1145**	**164.69**	**1184**	**180.02**	**1224**	**195.94**	—	—
79520	3200	1012	118.67	1031	125.55	1051	132.49	1070	139.50	1089	146.59	**1126**	**161.08**	**1164**	**176.09**	**1202**	**191.65**	**1239**	**207.72**	**1276**	**224.27**
84490	3400	1042	129.23	1060	136.48	1079	143.76	1097	151.09	1115	158.46	1151	173.40	1187	188.71	**1222**	**204.48**	**1257**	**220.76**	**1293**	**237.54**
89460	3600	1073	140.47	1091	148.09	1108	155.74	1126	163.42	1143	171.14	1178	186.69	1212	202.47	1245	218.57	**1279**	**235.08**	**1312**	**252.07**
94430	3800	1105	152.44	1122	160.41	1139	168.43	1156	176.48	1173	184.56	1206	200.82	1238	217.22	1271	233.82	1303	250.71	**1334**	**267.97**
99400	4000	1138	165.17	1155	173.51	1171	181.88	1188	190.30	1204	198.75	1236	215.74	1267	232.85	1298	250.09	1329	267.51	1359	285.18
104370	4200	1172	178.73	1188	187.42	1204	196.15	1220	204.92	1235	213.73	1266	231.45	1297	249.30	1326	267.25	1356	285.33	1385	300.00
109340	4400	1206	193.16	1222	202.19	1237	211.27	1253	220.39	1268	229.56	1298	248.00	1327	266.58	1356	285.27	1385	300.00	1413	320.00
114310	4600	1241	208.48	1256	217.87	1271	227.30	1286	236.78	1301	246.29	1330	265.44	1359	284.74	1387	300.00	1415	320.00	1442	340.00
119280	4800	1276	224.73	1291	234.49	1306	244.28	1321	254.11	1335	263.97	1363	283.82	1391	300.00	1419	320.00	1446	340.00	1472	360.00
124250	5000	1312	241.94	1326	252.07	1341	262.23	1355	272.42	1369	282.64	1397	300.00	1424	320.00	1451	340.00	1477	370.00	1503	390.00
129220	5200	1348	260.15	1362	270.66	1376	281.19	1390	291.74	1404	300.00	1431	320.00	1458	350.00	1484	370.00	1509	390.00	1535	410.00
134190	5400	1384	279.39	1398	290.27	1412	300.00	1426	310.00	1439	320.00	1466	350.00	1492	370.00	1517	390.00	1542	410.00	—	—

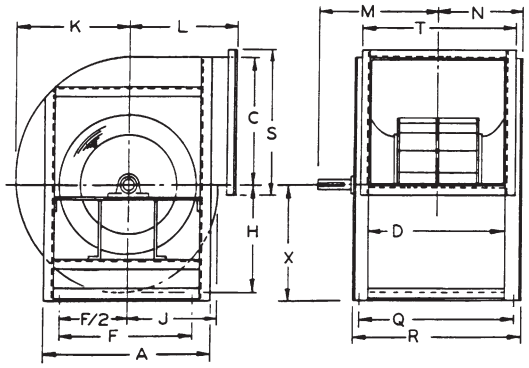
Power rating (BHP) does not include drive losses.
Performance shown is for Power Foil Blowers with outlet duct.
Data in **bold** face indicates quietest and most efficient performance.

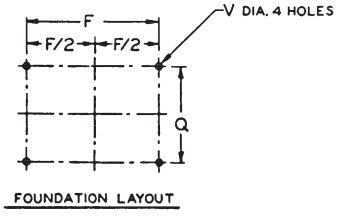
Class I Blowers
Class II Blowers
Class III Blowers
Class IV Blowers

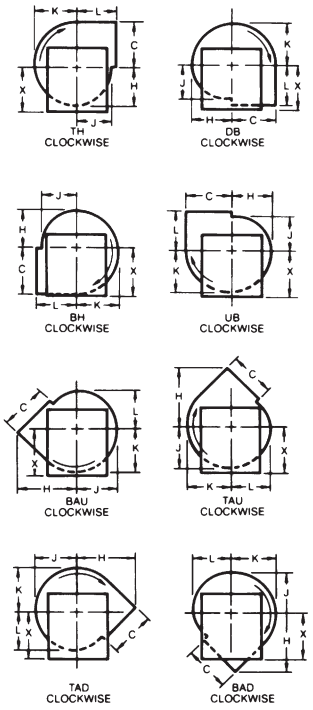




Arrangement #3







Arrangement #3 — DWDI — Class I & II

Model No.	Whl. Dia.	Class I Shaft Ext. Dia.	Class I Keyway	Class II Shaft Ext. Dia.	Class II Keyway	A	C	D	F	TH, DB, BH, UB Straight Discharge H	J	K	L	TH, DB, BH, UB Angular Discharge H	J	K	L	Class I M	Class II M	N	P	Q	R	S	T	U	V	W	X TH	X DB	X BH	X UB	X BAU	X TAU	X TAD	X BAD	Approx. Weight Lbs. Class I	Approx. Weight Lbs. Class II
AF490DW	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 5/8	69 1/8	51 3/4	40 1/8	33 1/2	45 3/4	37 1/4	63 1/4	42 7/8	49 3/4	36 1/4	48 1/4	48 1/4	37 9/16	—	72 5/8	72 1/8	58 5/8	75 1/8	—	7/8	—	42 5/8	37 1/4	56 5/8	48 1/4	52 1/4	45 3/4	38 3/4	45 3/8	3005	3255

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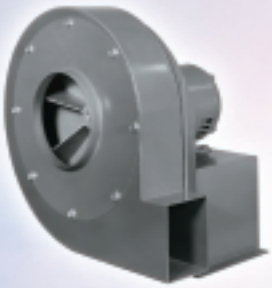

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