PLENUM FANS

SILENTVANE™

Models 8800 STAR and 8800 Series

8800 STAR Series

8800 Series

AIRFOIL HIGH EFFICIENCY CENTRIFUGAL FANS

ACME SYMBOL OF QUALITY

ACME ENGINEERING & MANUFACTURING CORPORATION / MUSKOGEE, OKLAHOMA

Quality and Service that will Blow you Away!

Industry Leadership

Founded in 1938, Acme Engineering and Manufacturing Corporation is known worldwide as a leader in the manufacture of fans, blowers, and ventilation equipment. Acme's growth over the past half century is a tribute to superior quality, customer loyalty, and dedicated employees and sales representatives.

Today, from its headquarters in Muskogee, Oklahoma, Acme serves customers worldwide with high quality air movement and control products.

Manufacturing

With approximately 350,000 square feet of manufacturing space, Acme produces one of the broadest lines of air moving equipment in the industry. State-of-the-art manufacturing equipment and a well trained, experienced workforce is the key to Acme's timely delivery of quality air moving products.

Research and Testing

The Acme Research and Development Center operates both air and sound laboratories. The Center houses four wind tunnels with a data acquisition system, a reverberant sound room with the latest sound analyzer equipment, and a structural laboratory for stress and vibration analysis. Solid modeling, and finite element analysis support product research and development. The Center also houses a fully equipped prototype facility enabling Acme to develop and introduce new products to the market in the shortest time possible.

Sales & Service

A factory trained, knowledgeable sales organization addresses the needs of many diverse and distinct markets. Customers around the world are serviced by a complete system of sales representatives, equipment distributors and local dealers supported by nationwide distribution centers and backed by a staff of sales and marketing professionals.

Quality

A highly trained production staff sets the standard for dependable, quality air moving products. By using the latest computer techniques for research and design, and rigorous quality control standards Acme can offer one of the best warranty programs in the industry. Our exclusive 2/5 year limited warranty provides our customers with confidence…Year After Year.

ACME SYMBOL OF QUALITY

PLENUM FANS

Acme offers plenum fans in two models; **8800 STAR Series** and **8800 Series**. Application and performance requirements will determine which model is best suited for your needs.

8800 STAR Series

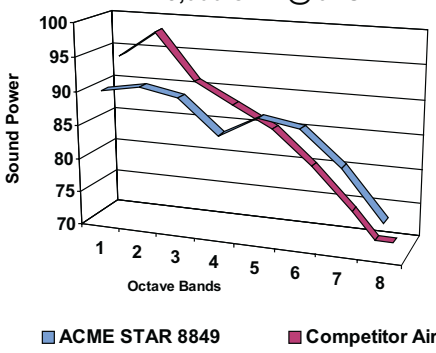
The 8800 STAR plenum fans are available in arrangements 3H and 3F. Wheel sizes range from 15" - 60" and are constructed of aluminum or steel (steel only on 60") with the single thickness airfoil blades.

The STAR Advantage...

- **Quiet Operation**...The precise orientation of wheel blades, combined with careful aerodynamic design of wheel and inlet, decreases air turbulence and increases pressure conversion efficiency. The result is a quieter operating centrifugal fan.
- **Lower Costs**...Mixed Flow fan performance but at ½ the cost and less space.
- **Lower Sound**...STAR wheels are designed to offer significantly lower sound levels in the first three octave bands than those of hollow airfoil wheels while matching the CFM, Static Pressure and RPM of a similar size wheel.

8800 STAR Series

Inlet Sound Power by Octave Band
28,000 CFM @ 3" S.P.



In this example the difference in A weighted sound in the first three octave bands is 3 dBA. Using NC to evaluate the difference, the Acme STAR Plenum Wheel reduces the NC levels in the occupied space by 5. (e.g. reduces NC from 45 to 40).

8800 STAR Steel

8800 STAR Aluminum

Sizes 15" through 60"

8800 Series

The 8800 Series is available with welded steel or aluminum tabbed airfoil wheels. Steel wheels are Class I and II ranging in sizes 15" - 73". (Consult factory for Class III). Aluminum tabbed wheels are Class I ranging in sizes 15" - 49". Welded aluminum wheels up to 73".

8800 AF Steel

Sizes 15" through 73"

8800 AT Aluminum

Sizes 15" through 49"

8800 Series

Acme Engineering and Manufacturing Corporation certifies that the Plenum Models 8800 STAR and 8800 Series fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

PLENUM FANS

CONSTRUCTION FEATURES

AIRFOIL WHEELS
Shock-free flow at the leading edge of the blades, plus streamlined flow over the blade surfaces, increases wheel efficiency and quietness.

All wheels are statically and dynamically balanced to ensure smooth operation.

AIRFOIL ADVANTAGES...

- **Steeply Rising Pressure Curve** Ensures minimum variation in volume with change in system pressure and provides a pressure reserve above the normal selection range.
- **Low Operating Cost** Maximum peak and operating efficiencies with minimum power requirements.
- **Quieter Operation** Aerodynamically correct airflow provided by airfoil blading permits quiet operation.

ADD UP TO...

- **Real Savings**… low initial cost, minimum operating expense, and minimum maintenance expense.
- **Full Value**… Superior design, workmanship, application and service.

STEEL WHEELS
Wheels have die-formed hollow airfoil blades continuously welded to back plate and rim to provide a rigid assembly for Class I and II applications.

ALUMINUM TABBED WHEELS
Tabbed wheels have die formed aluminum airfoil (hollow on 8800 Series) blades tabbed to backplate and rim for Class I applications. Tabbing eliminates welding distortion improving wheel balance and vibration free operation.

SHAFTS
Shafts are fabricated from medium carbon steel, (larger fans utilize forged shafts) and all are carefully turned, ground and polished to size. All shafts are correctly designed to give safe deflection and operate well below the first critical speeds.

INLETS
Deep streamlined inlets reduce incoming air turbulence and losses to a minimum. Overlapping of the inlet with the contoured wheel rims allows air to move into the wheel without obstruction. Inlets include slip connection.

STANDARD PAINT FINISH
The standard finish for all fans consist of one coat of primer and one overcoat of gray, alkyd enamel paint. Other coatings are available upon request.

HEAVY BEARING SUPPORT - (Arrangement 3)
Heavy steel bearing supports maintain accurate alignment, prevent bearing distortion and offer a minimum of resistance to airflow.

BEARINGS - (Arrangement 3)
Self-aligning, grease lubricated, anti-friction bearings are standard. Minimum starting friction, simple maintenance and long trouble-free life expectancy, make them ideal for fan service. In general, ball bearings are used for the higher speeds, and roller bearings for heavy loads and at slower speeds.

With proper belt tension, ACME bearings are selected for a minimum L_{10} life of 80,000 hours (L_{50}, 400,000). However, certain high speed and high horsepower configurations may lead to reduced bearing life. Information on the actual bearing selection for a given configuration along with bearing life estimates are available upon request.

ARRANGEMENT 3
Belt drive version. Motor is either mounted on a motor slide base on the floor, or on a motor slide base on a structural unitary support. The wheel is supported between one bearing mounted in the airstream and one mounted behind the wheel backplate.

ARRANGEMENT 4 (Consult factory)
Direct drive version. Motor is supported by a rigid steel base and wheel is mounted on motor shaft.

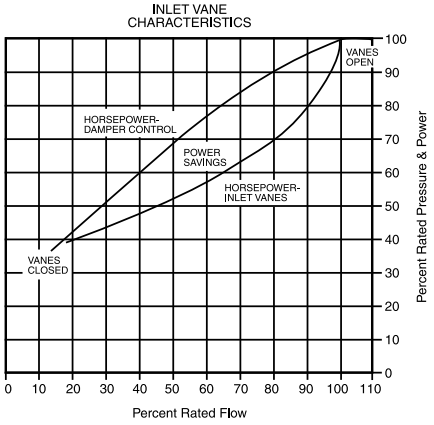
OPTIONAL ACCESSORIES

- Extended Lube Fittings
- Shaft Extensions
- Inlet Screens
- Unit Protective Enclosure
- Inlet Vane Controls
- Motor & V-Belt Drives
- Vertical Shaft Mounting
- Special Bearings
- Special Nameplates
- Narrow % Width Wheels
- Drive Guards
- Unitary Bases
- Special Coatings
- Split Pillow Block Bearing

INLET VANE CONTROL (IVC)

Vane control is a simple and efficient means of regulating fan output over a wide range of operating conditions. It combines the advantages of instantaneous regulation of fan capacity (to meet exact pressure and volume requirements of the system) with substantial power savings during those periods when the full rated delivery of the fan is not required. Vanes may be operated automatically or manually without shutting the fan down.

The control of fan output by movable inlet vanes has been accepted as one of the most economical means of varying fan capacity at high efficiency.



Typical Inlet Vane Control Horsepower Curve Illustrating Power Savings.

Inlet Vane Control offers these advantages for Variable Air Volume Systems:

- **Immediate Response**… Vane control effects a change in fan pressure and volume without requiring a speed change of either the fan or motor.
- **Saves Power**… As the vanes are closed, a reduction in fan output occurs, with a resulting lower motor power input.
- **Quietness**… Overall sound level will not increase substantially from full open to the closed vane position.
- **Present-Future Operation**… Partially closed vanes permit use of a fan without change for present low occupancy or load. Vanes can be opened as load increases.
- **Usable at all times**… Vanes may be operated without shutting down the fan ensuring continuous system performance.
- **Stabilizes Fan**… Partially closed vanes steepen the fan curve, minimizing volume variation when the system resistance changes.
- **Simple**… Regulating fan output by vane control permits the use of highly efficient squirrel cage motor and simple starting equipment.
- **Economical**… Vane control is a most economical means of controlling fan capacity combining power savings with low first cost.

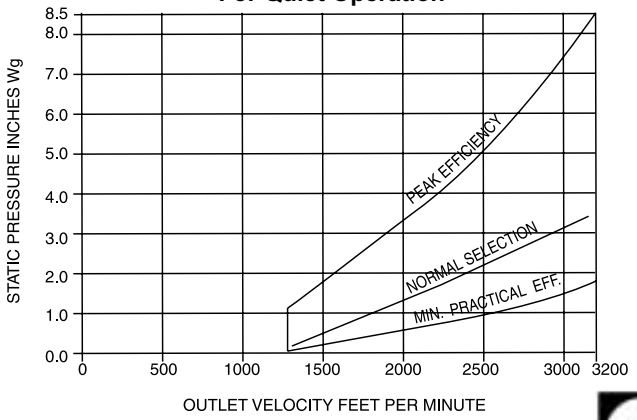
Internal (Nested) IVC with lever

SELECTION AND APPLICATION

Efficient fan selection minimizes internal energy losses and sound generation. Fan selections near the peak efficiency provide low sound output consistent with adequate pressure reserve and self-limiting horsepower adding another advantage of carefully coordinated design.

Selection for relatively quiet operation… Selection at higher efficiencies minimizes sound generation. For lower sound output, together with other benefits of low power consumption and operating cost throughout fan life, select fans near **Normal Selection Curve**. When high sound levels are acceptable, together with smaller fans and higher operating costs, selection can be made at lower efficiencies. Under these circumstances, sound attenuation may be desirable.

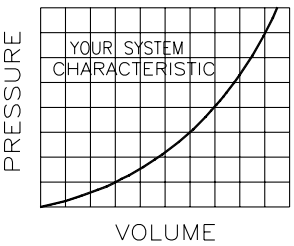
Recommended Outlet Velocities For Quiet Operation



PLENUM FANS

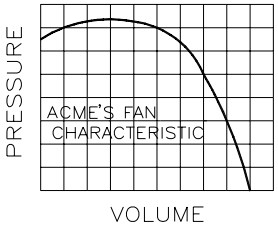
SELECTION CONSIDERATIONS
Selection of the proper fan for a given application involves not only the operating characteristics of the fan, but a careful analysis of first cost versus operating cost, as well as expected life, quietness of operation, location of equipment and other job limitations. Quite often an analysis of first cost versus operating costs for the life expectancy of the fan can justify a higher initial investment using a larger fan with higher efficiency. Industrial applications have indeterminate life expectancies and often permit smaller fans to be selected at lower efficiencies. Each installation should be thoroughly analyzed in its design stage to insure that the ultimate objective is accomplished.

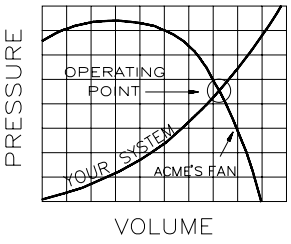
ACME'S FAN… YOUR SYSTEM
Fan selections are based on static pressure capability when handling a given volume of air. The static pressure is calculated for each system by following certain accepted industry practices. This calculation of static pressure is at best an inexact science with the error often compounded by the addition of safety factors.



If the system pressure requirements for a given volume of flow is known, the system characteristic curve is a parabola and can be predicted mathematically. Such a system curve is illustrated to the left.

A fan at a given RPM has a characteristic pressure-volume curve from wide open to blocked tight. Such a fan curve is illustrated to the right.





If the curves are superimposed as illustrated to the left, the intersection is the only point on the system at which the fan can operate. If this balance point does not satisfy the system pressure and volume requirements, the system requirements or fan speed must be adjusted until the required operating characteristics are obtained.

In the selection of a fan to meet calculated or specified pressure-volume conditions, it is important to apply, where possible, an adjustable fan drive with sufficient variation to compensate for variances between actual and calculated operating conditions.

FAN STARTING REQUIREMENTS
A fan is an energy converter. Electrical energy rotates the fan wheel through a driving motor and increases the static pressure (potential energy) of the air handled by the fan in order to overcome resistance to airflow offered by the duct system. The wheel also increases the velocity pressure (kinetic energy) of the air which is the energy required to maintain the air in motion. The driving motor must be capable of starting the fan from rest and accelerating it to the operating speed with a minimum of disturbance to the electrical system. The information given below is useful in understanding the motor problems that may arise.

To start and accelerate a fan to the operating speed it is necessary to:

1. **Overcome bearing resistance.** This resistance can vary with the type of bearing used. It is low for anti-friction types and relatively high for sleeve types.

2. **Accelerate the inertia of the fan wheel and shaft.** This inertia is generally designated as the moment of inertia or WR^2. The motor must provide energy to accelerate it together with the inertia of the drive sheaves or coupling.

3. **Provide energy to the fan wheel as it begins to deliver air into the duct system.** The horsepower required varies with the cube of the fan speed ratio. It is insignificant at low speeds, but increases rapidly as the fan wheel comes up to operating speed.

8800 Series (Steel Wheel)*

WR^2 Fan (lb.- ft^2)		
Fan Size	**Class I**	**Class II**
8815	3	5
8816	5	7
8818	9	12
8820	13	18
8822	20	30
8824	30	45
8827	45	70
8830	75	105
8833	115	160
8837	165	235
8840	310	350
8845	450	590
8849	765	995
8854	1350	1530
8860	2020	2290
8866	3710	4480
8873	5710	6940

* Aluminum wheel is 1/3 of value shown.

8800 STAR Series

WR^2 Fan (lb.- ft^2)	
Fan Size	**Aluminum Wheel**
8815STAR	1
8818STAR	3
8822STAR	5
8824STAR	10
8827STAR	16
8830STAR	30
8833STAR	50
8837STAR	74
8843STAR	165
8849STAR	340
8854STAR	630
8860STAR	2930

MOTOR SELECTION CONSIDERATIONS

At lower static pressures it is possible to select motors that are too small. The fan operating brake horsepower could be significantly less than the WR^2 necessary to accelerate the fan to the point of operation. If the motor was sized to the required operating brake horsepower without consideration for the fan WR^2, drive loss, and bearing loss, then it is very possible to overheat the motor and overload the electrical system. To assure the proper motor size you should refer to the motor manufacturers data.

The job engineer, contractor or representative is responsible for the proper motor size and type selection.

Whenever inlet vanes are used, the starting load and motor heating are reduced, if such devices are kept closed until after the fan has accelerated to operating speed.

CORRECTION OF FAN PERFORMANCE FOR OTHER THAN STANDARD AIR CONDITIONS

Air volumes to be handled by the fan must be calculated to satisfy the application. A fan operating on a given system at a given speed is a constant volume machine. The density of air entering the fan (affected by temperature and/or altitude) can vary, but the air volume delivered will remain unchanged. The system resistance, the fan pressure capability and brake horsepower will vary directly with the air density.

In general practice, the design system resistance is calculated in the usual manner using standard air density and the fan pressure requirements are determined for “standard” conditions. This is sometimes known as the equivalent pressure (SP_E). Select the fan from the catalog in the normal manner using the equivalent pressure (SP_E), noting the fan RPM and BHP. As indicated by Fan Law #2, the design air volume and selected fan speed will remain unchanged, but the fan pressure and horsepower will vary with the air density. The system resistance will also vary with the air density.

The design of many systems involves the calculation and specification of air quantities by weight as in product drying or combustion. Before a fan can be selected, the air quantity must be converted to an air volume based upon actual air density entering the fan inlet. The system resistance equivalent fan static pressure (SP_E) must be determined using the air volume. The fan selection is now made from the catalog using the calculated air volume and the equivalent static pressure (SP_E). Fan brake horsepower corrections are made for air density variations as indicated under Fan Law #2C.

For ease in calculations, the table on page 8 contains air density ratios for temperatures from -20°F to 150°F and barometric pressures from 29.92" to 20.58" Hg.

FAN LAWS

Two basic fan laws relate performance variables for any fan of a given design (such as the 8800 Series). An understanding of these relationships is necessary to select fans when they are handling air or gas which is different than standard or when fan performance adjustments must be made on existing systems. **Both of these laws apply to a given unchanged duct system.**

FAN LAW #1

SPEED VARIABLE - CONSTANT AIR DENSITY

A. Volume (CFM)...Varies directly as the ratio of the speeds.

$$CFM_2 = CFM_1 \, X \left(\frac{RPM_2}{RPM_1} \right)$$

B. Pressure (SP or TP)...Varies directly as the square of the speed ratio.

$$Pressure_2 = Pressure_1 \, X \left(\frac{RPM_2}{RPM_1} \right)^2$$

C. Power...Varies directly as the cube of the speed ratio.

$$BHP_2 = BHP_1 \, X \left(\frac{RPM_2}{RPM_1} \right)^3$$

FAN LAW #2

AIR DENSITY VARIABLE - CONSTANT SPEED

A. Volume (CFM)...Remains unchanged

B. Pressure (SP or TP)...Varies directly as the ratio of the air densities.

$$Pressure_2 = Pressure_1 \, X \left(\frac{AirDensity_2}{AirDensity_1} \right)$$

C. Power...Varies directly as the ratio of the air densities.

$$BHP_2 = BHP_1 \, X \left(\frac{AirDensity_2}{AirDensity_1} \right)$$

PLENUM FANS

SAMPLE SELECTION

A 8800 Series size 8837 fan must deliver 27,076 CFM at 4.0 inches static pressure. The fan must perform at an altitude of 5000 feet with an entering air temperature of 150°F.

1. Obtain the density ratio from the table below. For 150°F at an altitude of 5000 feet the ratio is 1.38.
2. Convert the actual static pressure to standard conditions (SP_E).

   SP_E = 4 in. wg x 1.38 = 5.5 in. wg
3. Use the specified air flow rate and equivalent static pressure (SP_E) to obtain the fan speed and power requirements from the fan rating tables.

   From the fan performance table on page 34, a size 37 fan must operate at 1450 RPM and require 40.97 BHP.
4. The speed is correct as selected from the performance table (when elevated temperatures are involved, compare with the maximum allowable speed of the fan). The power requirements must be converted back to the actual operating conditions by using the ratio of the actual density to standard density.

   Divide the tabular power from step 3 by the density ratio from step 1:

   $$\text{Power} = \frac{40.97\ BHP}{1.38} = 29.69\ BHP$$
5. Check specifications to determine if the fan will be expected to operate at lower temperatures (such as at start up of a system). If it is, check the power requirement at this lower temperature.

   Assume the system will be started with the fan handling air at 70°F.

   a. The air density ratio for 70°F and 5000 ft is 1.20.

   b. Convert the power at standard conditions (70°F and sea level) to 70°F and 5000 feet:

   $$\text{Power} = \frac{40.97\ BHP}{1.20} = 34.14\ BHP$$

   c. Select a motor based upon the maximum power required or 34.14 BHP.

AIR DENSITY RATIOS AT VARIOUS ALTITUDES AND AIR TEMPERATURES

AIR GAS TEMP °F	ALTITUDE IN FT. ABOVE SEA LEVEL WITH CORRESPONDING BAROMETRIC PRESSURE IN INCHES Hg.										
	0 29.92	1000 28.86	2000 27.82	3000 26.81	4000 25.84	5000 24.89	6000 23.98	7000 23.09	8000 22.22	9000 21.38	10000 20.58
-20	0.83	0.86	0.89	0.93	0.96	1.00	1.04	1.08	1.12	1.16	1.21
0	0.87	0.91	0.94	0.97	1.01	1.04	1.08	1.13	1.17	1.22	1.26
50	0.96	1.00	1.04	1.07	1.11	1.16	1.20	1.25	1.30	1.35	1.40
70	1.00	1.04	1.08	1.12	1.16	1.20	1.25	1.30	1.35	1.40	1.45
100	1.06	1.10	1.14	1.18	1.22	1.27	1.32	1.37	1.42	1.48	1.54
150	1.15	1.19	1.24	1.30	1.33	1.38	1.44	1.49	1.55	1.61	1.67

PLENUM FAN CLASSIFICATIONS

Typically, commercial ventilation equipment is defined by an AMCA Class which relates the ability of a fan to obtain specified air/pressure performance points. These points are defined in AMCA Standard 99-86 for housed backward inclined and forward curved fans. There are no standards for a Plenum fan relating to its performance capability to an AMCA Class.

However, because ACME uses its basic 8100 housed fan airfoil wheel design in our Plenum fans, it becomes convenient to identify Plenum fans by a "ACME Construction Class" equivalent to the same physical wheel construction necessary to obtain the normal AMCA Fan Rating Class for the housed 8100 fan line. Therefore, an ACME Class I Plenum wheel and shaft is physically the same as an AMCA Class I 8100 housed fan wheel and shaft.

PLENUM FAN OUTLET AREA

A plenum fan does not have a housing to collect the air. Therefore, the traditional concept of an outlet area has to be modified. By definition from AMCA 210, the outlet opening of the wheel is the fan outlet area. This is the circumference of the wheel at the blade tip times the tip width of the wheel.

8800 STAR SERIES

PLENUM FANS
SIZE 8815STAR

MAXIMUM OPERATING RPM
FAN TEMPERATURE

SIZE 8815	-20° to 150°F
Aluminum Wheel	3200 RPM
Steel Wheel	4074 RPM

Wheel Diameter	15 inches
Wheel Circumference	3.93 feet
Inlet Diameter/Area	13.00 inches dia./.92 sq. ft.
Outlet Area	1.10 sq. ft.
Tip Speed	3.93 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
660	600	657	0.05	762	0.08																
770	700	697	0.06	793	0.09	882	0.12														
880	800	741	0.07	830	0.10	913	0.13	992	0.17												
990	900	788	0.08	872	0.12	949	0.15	1022	0.19	1093	0.23	1159	0.27								
1100	1000	836	0.10	917	0.13	990	0.17	1059	0.21	1124	0.25	1189	0.29	1251	0.34						
1210	1100	889	0.12	964	0.15	1034	0.19	1100	0.23	1162	0.27	1220	0.32	1281	0.37	1393	0.47				
1320	1200	944	0.14	1012	0.17	1080	0.22	1142	0.26	1202	0.30	1259	0.35	1313	0.40	1423	0.50	1524	0.61		
1430	1300	1000	0.16	1063	0.20	1127	0.24	1188	0.29	1244	0.33	1300	0.38	1353	0.43	1454	0.54	1555	0.65	1648	0.78
1540	1400	1057	0.18	1118	0.23	1176	0.27	1235	0.32	1290	0.37	1342	0.42	1394	0.47	1492	0.58	1585	0.70	1678	0.82
1650	1500	1114	0.21	1173	0.26	1227	0.31	1283	0.36	1337	0.41	1388	0.46	1436	0.51	1532	0.63	1620	0.74	1708	0.87
1760	1600	1175	0.25	1229	0.29	1282	0.34	1332	0.39	1385	0.45	1435	0.50	1482	0.56	1573	0.68	1661	0.80	1742	0.93
1870	1700	1236	0.29	1286	0.33	1337	0.38	1384	0.44	1433	0.49	1482	0.55	1529	0.61	1616	0.73	1702	0.86	1782	0.99
1980	1800	1297	0.33	1343	0.38	1393	0.43	1439	0.49	1483	0.54	1530	0.60	1576	0.66	1662	0.79	1743	0.92	1823	1.06
2090	1900	1359	0.37	1402	0.42	1449	0.48	1494	0.54	1537	0.60	1579	0.66	1624	0.72	1709	0.85	1788	0.99	1865	1.13
2200	2000	1421	0.43	1463	0.48	1506	0.53	1550	0.59	1592	0.66	1632	0.72	1673	0.78	1756	0.92	1834	1.06	1907	1.20
2420	2200	1547	0.54	1586	0.60	1623	0.66	1663	0.72	1703	0.79	1741	0.85	1778	0.92	1853	1.07	1928	1.22	1999	1.37
2640	2400	1674	0.68	1710	0.74	1745	0.80	1778	0.87	1816	0.94	1853	1.01	1888	1.09	1956	1.23	2024	1.39	2094	1.56
2860	2600	1801	0.84	1835	0.91	1868	0.98	1900	1.04	1931	1.11	1966	1.19	2000	1.27	2065	1.43	2127	1.59	2190	1.76
3080	2800	1929	1.03	1961	1.10	1992	1.17	2022	1.25	2052	1.32	2081	1.39	2114	1.48	2176	1.65	2236	1.82	2293	1.99
3300	3000	2058	1.24	2088	1.32	2118	1.40	2146	1.47	2174	1.55	2201	1.63	2229	1.71	2289	1.89	2346	2.07	2401	2.26
3520	3200	2187	1.49	2216	1.57	2244	1.65	2271	1.73	2298	1.81	2324	1.90	2349	1.98	2403	2.16	2458	2.36	2512	2.55
3740	3400	2317	1.76	2344	1.85	2371	1.93	2396	2.02	2422	2.11	2447	2.20	2471	2.29	2519	2.46	2572	2.67	2623	2.87
3960	3600	2447	2.07	2473	2.16	2498	2.25	2523	2.34	2547	2.44	2571	2.53	2594	2.62	2640	2.81	2687	3.01	2737	3.22
4180	3800	2577	2.41	2602	2.51	2626	2.60	2650	2.70	2673	2.80	2696	2.89	2718	2.99	2762	3.19	2805	3.39	2851	3.61

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1540	1400	1765	0.95																		
1650	1500	1795	1.01	1953	1.29																
1760	1600	1825	1.06	1983	1.36																
1870	1700	1858	1.12	2013	1.42	2157	1.74														
1980	1800	1898	1.20	2044	1.49	2187	1.82	2319	2.16												
2090	1900	1939	1.27	2077	1.57	2217	1.90	2349	2.25	2472	2.62										
2200	2000	1980	1.35	2117	1.66	2248	1.99	2379	2.35	2501	2.72	2617	3.10								
2420	2200	2067	1.53	2199	1.85	2323	2.19	2440	2.54	2562	2.93	2677	3.34	2786	3.75	2890	4.18				
2640	2400	2160	1.72	2284	2.07	2405	2.42	2519	2.79	2626	3.17	2738	3.59	2846	4.02	2950	4.46	3049	4.92	3144	5.38
2860	2600	2255	1.94	2376	2.30	2488	2.68	2601	3.06	2707	3.46	2807	3.87	2908	4.30	3010	4.76	3109	5.23		
3080	2800	2352	2.18	2470	2.56	2580	2.96	2684	3.36	2789	3.78	2888	4.20	2983	4.64	3074	5.09	3170	5.57		
3300	3000	2454	2.45	2566	2.84	2674	3.26	2776	3.68	2872	4.12	2971	4.56	3064	5.02	3154	5.48				
3520	3200	2563	2.75	2663	3.15	2769	3.59	2869	4.03	2964	4.49	3055	4.95	3147	5.42						
3740	3400	2673	3.08	2769	3.50	2866	3.95	2964	4.41	3057	4.88	3147	5.37								
3960	3600	2785	3.44	2878	3.89	2966	4.34	3060	4.82	3152	5.31										
4180	3800	2898	3.84	2988	4.30	3074	4.77	3158	5.26												
4400	4000	3012	4.27	3100	4.75	3184	5.24														
4620	4200	3127	4.74																		

Fans may be used up to the maximum RPM as listed above.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8818STAR

Wheel Diameter	18.51 inches
Wheel Circumference	4.85 feet
Inlet Diameter/Area	16.40 inches dia./1.47 sq. ft.
Outlet Area	1.67 sq. ft.
Tip Speed	4.85 x RPM ft./minute

MAXIMUM OPERATING RPM
FAN TEMPERATURE

SIZE 8818	-20° to 150°F
Aluminum Wheel	2600 RPM
Steel Wheel	3303 RPM

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1002	600	531	0.08	617	0.12																
1169	700	564	0.09	642	0.13	714	0.18														
1336	800	600	0.11	672	0.15	739	0.20	803	0.26												
1503	900	638	0.13	705	0.17	768	0.23	828	0.28	885	0.35	939	0.41								
1670	1000	677	0.15	742	0.20	801	0.26	857	0.31	910	0.38	963	0.45	1013	0.52						
1837	1100	719	0.17	780	0.23	836	0.29	890	0.35	940	0.42	988	0.48	1037	0.56	1128	0.71				
2004	1200	763	0.21	819	0.26	874	0.33	924	0.39	973	0.46	1019	0.53	1063	0.60	1152	0.76	1234	0.93		
2171	1300	809	0.24	860	0.30	912	0.37	961	0.44	1007	0.51	1053	0.58	1095	0.66	1177	0.82	1259	0.99	1334	1.18
2338	1400	854	0.28	904	0.34	951	0.41	999	0.49	1044	0.56	1086	0.64	1129	0.72	1207	0.88	1283	1.06	1359	1.25
2505	1500	901	0.32	949	0.39	993	0.46	1038	0.54	1082	0.62	1123	0.70	1162	0.78	1240	0.95	1312	1.13	1383	1.32
2672	1600	949	0.37	994	0.45	1036	0.52	1077	0.60	1120	0.68	1161	0.76	1199	0.85	1273	1.03	1344	1.21	1410	1.40
2839	1700	999	0.43	1040	0.50	1081	0.58	1120	0.66	1159	0.75	1199	0.84	1237	0.93	1308	1.11	1377	1.30	1443	1.50
3006	1800	1048	0.50	1086	0.57	1126	0.65	1164	0.74	1199	0.82	1238	0.91	1275	1.01	1345	1.20	1411	1.40	1476	1.60
3173	1900	1098	0.57	1134	0.64	1172	0.73	1208	0.81	1243	0.90	1277	1.00	1314	1.09	1383	1.29	1447	1.50	1509	1.71
3340	2000	1149	0.64	1183	0.72	1218	0.81	1253	0.90	1287	0.99	1320	1.09	1353	1.19	1421	1.39	1484	1.61	1543	1.83
3674	2200	1250	0.82	1282	0.91	1312	0.99	1345	1.09	1377	1.19	1408	1.29	1438	1.40	1499	1.61	1560	1.84	1618	2.08
4008	2400	1353	1.03	1382	1.12	1410	1.22	1438	1.31	1468	1.42	1498	1.53	1527	1.64	1582	1.87	1638	2.11	1694	2.36
4342	2600	1456	1.27	1483	1.37	1510	1.48	1536	1.58	1561	1.68	1590	1.80	1617	1.92	1670	2.16	1720	2.41	1772	2.67
4676	2800	1559	1.55	1585	1.66	1610	1.77	1635	1.88	1659	1.99	1682	2.11	1709	2.24	1760	2.49	1808	2.76	1854	3.02
5010	3000	1663	1.88	1688	1.99	1711	2.11	1735	2.23	1757	2.35	1779	2.47	1802	2.59	1851	2.86	1897	3.14	1942	3.42
5344	3200	1768	2.25	1791	2.37	1813	2.49	1835	2.62	1857	2.74	1878	2.87	1899	3.00	1943	3.27	1988	3.56	2031	3.86
5678	3400	1872	2.66	1894	2.79	1916	2.92	1937	3.05	1957	3.19	1978	3.32	1997	3.46	2036	3.73	2079	4.03	2121	4.35
6012	3600	1977	3.12	1998	3.26	2019	3.40	2039	3.54	2058	3.68	2078	3.82	2097	3.96	2134	4.25	2172	4.55	2213	4.88
6346	3800	2083	3.64	2103	3.79	2122	3.93	2141	4.08	2160	4.23	2179	4.37	2197	4.52	2233	4.83	2267	5.13	2305	5.46

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2338	1400	1429	1.45																		
2505	1500	1453	1.53	1582	1.96																
2672	1600	1478	1.61	1606	2.06																
2839	1700	1504	1.70	1630	2.16	1747	2.65														
3006	1800	1537	1.81	1655	2.27	1771	2.76	1878	3.28												
3173	1900	1570	1.93	1682	2.38	1795	2.89	1902	3.42	2002	3.98										
3340	2000	1603	2.05	1714	2.52	1820	3.02	1926	3.56	2026	4.13	2119	4.72								
3674	2200	1673	2.32	1780	2.81	1881	3.32	1976	3.86	2075	4.46	2168	5.07	2256	5.70	2340	6.35				
4008	2400	1748	2.61	1848	3.13	1947	3.68	2039	4.24	2126	4.81	2217	5.45	2305	6.10	2389	6.78	2469	7.47	2546	8.18
4342	2600	1824	2.94	1923	3.49	2014	4.06	2105	4.65	2191	5.25	2272	5.87	2354	6.53	2438	7.23	2518	7.95	2594	8.69
4676	2800	1902	3.30	1998	3.88	2088	4.48	2172	5.10	2257	5.73	2338	6.38	2415	7.04	2488	7.72	2567	8.46		
5010	3000	1985	3.71	2076	4.31	2164	4.94	2246	5.59	2325	6.25	2404	6.92	2480	7.61	2553	8.32				
5344	3200	2073	4.16	2154	4.78	2240	5.44	2321	6.11	2399	6.80	2472	7.51	2547	8.23						
5678	3400	2162	4.66	2239	5.31	2318	5.98	2398	6.69	2474	7.40	2546	8.14								
6012	3600	2252	5.21	2327	5.88	2399	6.57	2476	7.30	2550	8.05										
6346	3800	2343	5.81	2417	6.51	2486	7.23	2555	7.97												
6680	4000	2435	6.46	2507	7.19	2575	7.94														
7014	4200	2528	7.17	2598	7.93																

Fans may be used up to the maximum RPM as listed above.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS
SIZE 8822STAR

MAXIMUM OPERATING RPM
FAN TEMPERATURE

SIZE 8822	-20° to 150°F
Aluminum Wheel	2200 RPM
Steel Wheel	2777 RPM

Wheel Diameter	22 inches
Wheel Circumference	5.76 feet
Inlet Diameter/Area	19.44 inches dia./2.06 sq. ft.
Outlet Area	2.37 sq. ft.
Tip Speed	5.76 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1422	600	448	0.11	520	0.17																
1659	700	476	0.13	541	0.19	602	0.26														
1896	800	506	0.15	567	0.22	622	0.29	676	0.36	726	0.45										
2133	900	538	0.18	595	0.25	648	0.32	697	0.40	746	0.49	791	0.58								
2370	1000	571	0.21	626	0.29	676	0.36	722	0.45	767	0.53	811	0.63	853	0.73						
2607	1100	607	0.25	658	0.33	705	0.41	750	0.50	792	0.59	832	0.68	874	0.79	950	1.01				
2844	1200	644	0.29	691	0.38	737	0.46	779	0.56	820	0.65	859	0.75	896	0.85	971	1.08	1040	1.32		
3081	1300	683	0.34	726	0.43	769	0.52	811	0.62	849	0.72	887	0.83	923	0.93	992	1.16	1060	1.41	1124	1.67
3318	1400	721	0.40	763	0.49	802	0.59	843	0.69	880	0.80	916	0.91	951	1.02	1018	1.25	1081	1.50	1144	1.77
3555	1500	761	0.46	801	0.56	838	0.66	876	0.77	912	0.88	947	0.99	980	1.11	1045	1.35	1105	1.60	1165	1.88
3792	1600	802	0.53	839	0.64	875	0.74	909	0.85	945	0.97	979	1.09	1011	1.21	1074	1.46	1133	1.72	1188	1.99
4029	1700	844	0.62	878	0.72	912	0.83	945	0.94	978	1.06	1011	1.19	1043	1.32	1103	1.58	1161	1.85	1216	2.13
4266	1800	886	0.71	917	0.81	951	0.93	982	1.05	1012	1.17	1044	1.30	1076	1.43	1134	1.70	1189	1.99	1244	2.28
4503	1900	928	0.81	957	0.92	989	1.04	1020	1.16	1049	1.29	1078	1.42	1108	1.56	1166	1.84	1220	2.13	1272	2.43
4740	2000	970	0.92	999	1.03	1028	1.15	1058	1.28	1087	1.41	1114	1.55	1142	1.69	1198	1.98	1251	2.28	1301	2.59
5214	2200	1056	1.17	1083	1.29	1108	1.42	1135	1.56	1162	1.70	1189	1.84	1214	1.99	1264	2.30	1316	2.62	1364	2.95
5688	2400	1143	1.47	1167	1.60	1191	1.74	1214	1.87	1240	2.03	1265	2.18	1289	2.34	1335	2.66	1382	3.00	1429	3.35
6162	2600	1230	1.82	1253	1.96	1275	2.11	1297	2.25	1318	2.40	1342	2.57	1365	2.74	1409	3.08	1451	3.43	1495	3.80
6636	2800	1317	2.22	1339	2.38	1360	2.53	1381	2.69	1401	2.85	1421	3.01	1443	3.19	1485	3.55	1526	3.93	1565	4.30
7110	3000	1405	2.69	1426	2.85	1446	3.02	1465	3.18	1484	3.35	1503	3.52	1521	3.69	1562	4.08	1601	4.47	1639	4.87
7584	3200	1494	3.21	1513	3.39	1532	3.56	1551	3.74	1569	3.92	1586	4.10	1604	4.28	1640	4.67	1678	5.08	1714	5.50
8058	3400	1582	3.81	1601	3.99	1619	4.18	1636	4.36	1654	4.55	1671	4.74	1687	4.94	1720	5.32	1756	5.75	1791	6.20
8532	3600	1671	4.47	1689	4.67	1706	4.86	1723	5.06	1739	5.26	1755	5.46	1771	5.66	1802	6.07	1834	6.49	1868	6.96
9006	3800	1760	5.21	1777	5.42	1793	5.62	1809	5.83	1825	6.04	1840	6.25	1856	6.46	1886	6.89	1915	7.32	1946	7.79

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3318	1400	1204	2.05																		
3555	1500	1224	2.17	1332	2.78																
3792	1600	1245	2.29	1353	2.92	1453	3.59														
4029	1700	1268	2.42	1373	3.06	1471	3.75														
4266	1800	1295	2.58	1394	3.22	1492	3.92	1582	4.66												
4503	1900	1323	2.74	1417	3.38	1512	4.10	1602	4.85	1686	5.63										
4740	2000	1351	2.91	1445	3.57	1533	4.28	1623	5.05	1706	5.86	1785	6.69								
5214	2200	1410	3.29	1500	3.99	1585	4.72	1665	5.48	1748	6.32	1826	7.19	1900	8.08	1971	9.00				
5688	2400	1474	3.71	1558	4.45	1641	5.22	1719	6.02	1792	6.83	1867	7.72	1941	8.66	2012	9.61	2080	10.59	2144	11.59
6162	2600	1539	4.18	1621	4.96	1698	5.77	1774	6.60	1847	7.46	1915	8.34	1983	9.26	2053	10.26	2121	11.28	2185	12.32
6636	2800	1605	4.70	1686	5.52	1761	6.37	1831	7.24	1903	8.14	1971	9.06	2035	10.00	2097	10.96	2162	12.00		
7110	3000	1675	5.28	1751	6.13	1825	7.03	1894	7.94	1960	8.88	2027	9.84	2091	10.81	2152	11.81				
7584	3200	1750	5.93	1818	6.80	1890	7.74	1958	8.69	2023	9.67	2084	10.67	2147	11.69						
8058	3400	1825	6.64	1890	7.56	1956	8.51	2023	9.51	2086	10.53	2147	11.57								
8532	3600	1901	7.43	1964	8.38	2024	9.36	2088	10.39	2151	11.45										
9006	3800	1978	8.28	2040	9.28	2098	10.30	2155	11.34												
9480	4000	2056	9.21	2116	10.25	2173	11.31														
9954	4200	2135	10.22	2193	11.31																

Fans may be used up to the maximum RPM as listed above.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8824STAR

Wheel Diameter	24.52 inches
Wheel Circumference	6.42 feet
Inlet Diameter/Area	24.00 inches dia./3.14 sq. ft.
Outlet Area	2.94 sq. ft.
Tip Speed	6.42 x RPM ft./minute

MAXIMUM OPERATING RPM
FAN TEMPERATURE

SIZE 8824	-20° to 150°F
Aluminum Wheel	2000 RPM
Steel Wheel	2492 RPM

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1764	600	407	0.13	468	0.19																
2058	700	434	0.15	490	0.22	542	0.30														
2352	800	465	0.18	514	0.26	564	0.34	608	0.43	654	0.53										
2646	900	498	0.22	544	0.30	588	0.39	632	0.48	672	0.58	712	0.68								
2940	1000	534	0.26	576	0.35	616	0.44	656	0.54	695	0.64	732	0.75	768	0.86						
3234	1100	572	0.32	609	0.40	648	0.50	683	0.60	720	0.71	756	0.82	790	0.94	855	1.19				
3528	1200	610	0.37	645	0.47	680	0.57	715	0.68	747	0.79	780	0.91	814	1.03	876	1.28	936	1.56	995	1.85
3822	1300	649	0.44	683	0.54	713	0.65	747	0.76	778	0.88	808	1.00	838	1.12	900	1.39	956	1.67	1012	1.97
4116	1400	688	0.52	720	0.62	750	0.73	779	0.85	810	0.97	839	1.10	867	1.23	924	1.50	980	1.80	1032	2.10
4410	1500	729	0.60	759	0.72	788	0.83	815	0.95	842	1.08	871	1.21	898	1.35	949	1.63	1004	1.93	1056	2.24
4704	1600	770	0.70	798	0.82	826	0.94	852	1.07	877	1.20	903	1.33	930	1.47	980	1.77	1029	2.07	1080	2.40
4998	1700	811	0.81	837	0.93	864	1.06	889	1.19	914	1.33	937	1.47	962	1.61	1012	1.92	1057	2.23	1104	2.57
5292	1800	853	0.93	877	1.06	903	1.19	927	1.33	951	1.47	973	1.62	995	1.76	1043	2.08	1089	2.41	1131	2.74
5586	1900	895	1.07	918	1.20	942	1.34	966	1.48	988	1.63	1010	1.78	1032	1.93	1076	2.25	1120	2.59	1162	2.94
5880	2000	938	1.21	960	1.35	981	1.50	1004	1.65	1027	1.80	1048	1.96	1069	2.11	1108	2.44	1152	2.79	1193	3.15
6468	2200	1023	1.55	1043	1.70	1063	1.86	1083	2.02	1104	2.18	1124	2.35	1144	2.52	1181	2.87	1217	3.23	1257	3.61
7056	2400	1108	1.95	1127	2.12	1146	2.28	1164	2.45	1182	2.63	1202	2.81	1220	2.99	1256	3.36	1290	3.75	1323	4.13
7644	2600	1194	2.42	1212	2.60	1229	2.78	1246	2.96	1263	3.14	1280	3.33	1298	3.53	1332	3.93	1365	4.33	1397	4.74
8232	2800	1281	2.96	1298	3.15	1314	3.34	1330	3.54	1345	3.73	1360	3.93	1377	4.14	1409	4.56	1441	4.99	1471	5.43
8820	3000	1368	3.58	1383	3.79	1399	3.99	1414	4.20	1428	4.41	1443	4.62	1457	4.83	1488	5.27	1518	5.73	1547	6.19
9408	3200	1455	4.29	1470	4.50	1484	4.72	1498	4.94	1512	5.16	1526	5.38	1540	5.61	1567	6.07	1596	6.55	1624	7.04
9996	3400	1542	5.09	1556	5.31	1570	5.54	1583	5.78	1597	6.01	1610	6.25	1623	6.48	1648	6.96	1674	7.46	1702	7.97
10584	3600	1630	5.98	1643	6.22	1656	6.46	1669	6.71	1682	6.95	1694	7.20	1706	7.45	1730	7.95	1754	8.46	1780	9.00
11172	3800	1717	6.97	1730	7.23	1742	7.48	1755	7.74	1767	8.00	1779	8.26	1791	8.52	1814	9.05	1836	9.59	1859	10.13

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4116	1400	1083	2.42																		
4410	1500	1104	2.57	1200	3.27																
4704	1600	1128	2.74	1217	3.44	1308	4.22														
4998	1700	1152	2.91	1240	3.64	1324	4.41	1408	5.25												
5292	1800	1176	3.10	1263	3.85	1343	4.63	1424	5.48												
5586	1900	1202	3.30	1288	4.07	1367	4.88	1441	5.71	1519	6.63										
5880	2000	1232	3.52	1312	4.30	1391	5.13	1464	5.99	1535	6.90	1608	7.86								
6468	2200	1295	4.01	1367	4.82	1439	5.68	1512	6.59	1580	7.53	1644	8.49	1710	9.51	1776	10.58				
7056	2400	1359	4.55	1429	5.41	1494	6.30	1561	7.24	1628	8.23	1692	9.24	1752	10.27	1810	11.33	1872	12.47	1932	13.63
7644	2600	1427	5.16	1493	6.07	1557	7.01	1616	7.97	1677	8.98	1740	10.04	1800	11.12	1857	12.23	1913	13.36	1966	14.51
8232	2800	1501	5.87	1558	6.79	1620	7.78	1679	8.79	1734	9.83	1789	10.91	1848	12.04	1905	13.19	1960	14.37		
8820	3000	1575	6.66	1630	7.62	1685	8.62	1742	9.69	1797	10.78	1849	11.89	1899	13.02	1954	14.22				
9408	3200	1651	7.53	1704	8.54	1753	9.57	1807	10.66	1860	11.80	1911	12.96	1960	14.14						
9996	3400	1728	8.49	1779	9.55	1827	10.63	1873	11.73	1925	12.90	1975	14.11								
10584	3600	1805	9.54	1855	10.65	1902	11.78	1947	12.93	1990	14.10										
11172	3800	1884	10.70	1931	11.86	1977	13.03														
11760	4000	1963	11.96																		

Fans may be used up to the maximum RPM as listed above.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

8800 STAR SERIES

PLENUM FANS

MAXIMUM OPERATING RPM

FAN TEMPERATURE

SIZE 8827	-20° to 150°F
Aluminum Wheel	1800 RPM
Steel Wheel	2322 RPM

SIZE 8827STAR

Wheel Diameter	27.38 inches
Wheel Circumference	7.17 feet
Inlet Diameter/Area	27.00 inches dia./3.98 sq. ft.
Outlet Area	3.66 sq. ft.
Tip Speed	7.17 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2196	600	358	0.15	421	0.23																
2562	700	376	0.17	433	0.26	487	0.35														
2928	800	399	0.20	449	0.29	499	0.40	546	0.50												
3294	900	424	0.24	470	0.34	514	0.44	558	0.56	601	0.67	642	0.80								
3660	1000	452	0.28	494	0.38	534	0.49	573	0.61	614	0.74	652	0.87	690	1.01						
4026	1100	481	0.33	519	0.44	557	0.56	594	0.68	629	0.81	666	0.95	701	1.09	770	1.39				
4392	1200	511	0.39	547	0.50	582	0.62	615	0.75	649	0.89	682	1.03	715	1.18	779	1.49	843	1.82		
4758	1300	544	0.45	576	0.57	607	0.70	640	0.83	670	0.98	702	1.12	732	1.27	794	1.60	852	1.94	911	2.29
5124	1400	576	0.53	605	0.65	636	0.78	665	0.92	695	1.07	723	1.22	753	1.38	808	1.71	866	2.07	920	2.44
5490	1500	610	0.61	636	0.74	664	0.88	692	1.02	720	1.18	748	1.34	774	1.50	828	1.84	880	2.20	933	2.59
5856	1600	643	0.71	668	0.84	694	0.99	721	1.14	746	1.29	773	1.46	798	1.63	849	1.98	898	2.35	948	2.75
6222	1700	677	0.81	701	0.96	724	1.10	750	1.26	774	1.42	798	1.59	823	1.77	871	2.13	919	2.52	964	2.91
6588	1800	711	0.93	734	1.08	756	1.23	779	1.39	803	1.56	826	1.73	849	1.91	895	2.29	940	2.69	985	3.10
6954	1900	745	1.06	768	1.21	789	1.38	809	1.54	832	1.71	855	1.89	876	2.08	920	2.47	963	2.87	1006	3.30
7320	2000	780	1.20	801	1.36	822	1.53	842	1.70	862	1.88	884	2.06	905	2.26	946	2.65	988	3.07	1027	3.51
8052	2200	850	1.52	869	1.70	888	1.88	907	2.07	925	2.25	942	2.45	963	2.65	1001	3.07	1038	3.50	1077	3.97
8784	2400	921	1.90	938	2.09	956	2.29	973	2.49	990	2.69	1007	2.90	1023	3.11	1059	3.55	1094	4.01	1128	4.48
9516	2600	992	2.34	1008	2.55	1024	2.77	1040	2.98	1057	3.20	1072	3.42	1087	3.64	1118	4.09	1151	4.58	1184	5.08
10248	2800	1063	2.85	1079	3.08	1094	3.31	1108	3.54	1123	3.77	1138	4.00	1153	4.24	1181	4.72	1210	5.21	1241	5.74
10980	3000	1135	3.44	1149	3.68	1163	3.92	1177	4.17	1191	4.42	1205	4.66	1219	4.91	1246	5.42	1272	5.94	1300	6.48
11712	3200	1206	4.11	1220	4.36	1234	4.62	1247	4.88	1260	5.14	1273	5.40	1286	5.67	1312	6.20	1337	6.75	1361	7.30
12444	3400	1278	4.86	1292	5.13	1304	5.40	1317	5.67	1329	5.95	1341	6.23	1354	6.51	1378	7.07	1402	7.65	1426	8.23
13176	3600	1351	5.69	1363	5.98	1375	6.27	1387	6.56	1399	6.85	1410	7.14	1422	7.44	1445	8.03	1469	8.63	1491	9.24
13908	3800	1423	6.63	1435	6.93	1446	7.23	1458	7.54	1469	7.84	1480	8.15	1491	8.46	1513	9.09	1535	9.72	1557	10.36

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5124	1400	974	2.82																		
5490	1500	984	2.99	1083	3.81																
5856	1600	997	3.16	1093	4.01																
6222	1700	1012	3.34	1102	4.23	1192	5.15														
6588	1800	1028	3.52	1117	4.44	1202	5.40	1284	6.38												
6954	1900	1048	3.73	1131	4.66	1213	5.65	1294	6.67	1371	7.71										
7320	2000	1069	3.96	1146	4.89	1227	5.91	1303	6.97	1380	8.05	1452	9.15								
8052	2200	1113	4.44	1187	5.43	1258	6.46	1331	7.57	1401	8.72	1471	9.90	1540	11.09	1604	12.31				
8784	2400	1163	4.98	1230	6.02	1299	7.10	1363	8.22	1430	9.42	1496	10.67	1559	11.94	1623	13.22	1685	14.53	1745	15.86
9516	2600	1215	5.58	1280	6.67	1340	7.80	1404	8.98	1464	10.19	1525	11.46	1587	12.80	1646	14.16	1705	15.55	1764	16.94
10248	2800	1271	6.28	1330	7.39	1390	8.58	1446	9.80	1505	11.07	1562	12.36	1617	13.70	1675	15.12	1732	16.57	1786	18.05
10980	3000	1329	7.04	1384	8.19	1440	9.41	1495	10.69	1547	12.00	1603	13.36	1656	14.74	1707	16.15	1761	17.64		
11712	3200	1387	7.88	1441	9.09	1492	10.33	1545	11.66	1597	13.03	1645	14.42	1698	15.86	1748	17.33	1796	18.82		
12444	3400	1448	8.82	1499	10.07	1549	11.37	1596	12.70	1647	14.12	1695	15.58	1741	17.06	1790	18.58				
13176	3600	1513	9.86	1558	11.14	1606	12.49	1652	13.88	1698	15.31	1745	16.81	1791	18.35						
13908	3800	1578	11.00	1619	12.31	1664	13.71	1709	15.15	1753	16.62	1796	18.14								
14640	4000	1644	12.24	1683	13.61	1723	15.02	1767	16.52												
15372	4200	1710	13.59	1748	15.02	1785	16.47														
16104	4400	1777	15.06																		

Fans may be used up to the maximum RPM as listed above.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8830STAR

Wheel Diameter	30.56 inches
Wheel Circumference	8.00 feet
Inlet Diameter/Area	30.00 inches dia./4.91 sq. ft.
Outlet Area	4.55 sq. ft.
Tip Speed	8.00 x RPM ft./minute

MAXIMUM OPERATING RPM
FAN TEMPERATURE

SIZE 8830	-20° to 150°F
Aluminum Wheel	1620 RPM
Steel Wheel	2003 RPM

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2730	600	320	0.18	377	0.28																
3185	700	337	0.21	388	0.32	436	0.44														
3640	800	357	0.25	402	0.37	447	0.49	489	0.62												
4095	900	380	0.30	421	0.42	460	0.55	500	0.69	538	0.84	575	0.99								
4550	1000	405	0.35	442	0.48	478	0.61	513	0.76	550	0.92	584	1.08	618	1.25						
5005	1100	431	0.41	465	0.54	498	0.69	531	0.84	563	1.00	596	1.18	627	1.36	689	1.72				
5460	1200	457	0.48	489	0.62	521	0.77	551	0.93	581	1.10	610	1.28	640	1.46	698	1.86	755	2.26		
5915	1300	486	0.56	515	0.71	544	0.87	573	1.04	600	1.21	629	1.40	655	1.58	711	1.99	763	2.42	816	2.85
6370	1400	516	0.66	541	0.81	569	0.97	595	1.15	622	1.33	647	1.52	674	1.72	724	2.13	775	2.58	824	3.04
6825	1500	545	0.76	569	0.92	595	1.09	619	1.27	644	1.46	669	1.66	693	1.86	741	2.29	788	2.74	836	3.22
7280	1600	575	0.88	598	1.05	621	1.22	645	1.41	668	1.60	691	1.81	714	2.02	760	2.46	804	2.92	849	3.41
7735	1700	605	1.01	627	1.19	648	1.37	671	1.56	693	1.76	714	1.97	737	2.19	779	2.65	823	3.13	863	3.62
8190	1800	636	1.15	657	1.34	677	1.53	697	1.73	719	1.94	739	2.15	760	2.38	801	2.85	841	3.34	882	3.85
8645	1900	667	1.31	687	1.51	706	1.71	724	1.91	744	2.13	765	2.35	784	2.58	824	3.06	862	3.57	900	4.10
9100	2000	698	1.49	717	1.69	735	1.90	753	2.11	771	2.33	791	2.56	810	2.80	846	3.29	884	3.82	919	4.36
10010	2200	760	1.88	777	2.11	795	2.33	811	2.56	827	2.80	843	3.04	861	3.29	896	3.81	929	4.35	964	4.93
10920	2400	823	2.35	839	2.60	855	2.84	871	3.09	886	3.34	901	3.60	915	3.85	947	4.41	979	4.98	1009	5.56
11830	2600	887	2.90	902	3.16	916	3.43	930	3.69	945	3.96	959	4.24	973	4.51	1000	5.08	1030	5.68	1059	6.30
12740	2800	951	3.54	964	3.82	978	4.10	991	4.39	1005	4.67	1018	4.96	1031	5.26	1056	5.85	1083	6.47	1111	7.13
13650	3000	1015	4.26	1028	4.56	1040	4.86	1053	5.17	1065	5.47	1078	5.78	1090	6.09	1115	6.72	1138	7.37	1163	8.04
14560	3200	1079	5.09	1091	5.40	1103	5.72	1115	6.05	1127	6.37	1138	6.70	1150	7.03	1173	7.69	1196	8.37	1218	9.06
15470	3400	1143	6.01	1155	6.35	1166	6.69	1178	7.03	1189	7.37	1199	7.72	1211	8.07	1233	8.77	1254	9.48	1275	10.21
16380	3600	1208	7.05	1219	7.41	1230	7.76	1240	8.13	1251	8.49	1261	8.85	1272	9.22	1293	9.96	1313	10.71	1334	11.47
17290	3800	1272	8.21	1283	8.58	1293	8.96	1304	9.34	1314	9.72	1324	10.10	1333	10.49	1353	11.27	1373	12.05	1393	12.84

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6370	1400	873	3.51																		
6825	1500	881	3.72	970	4.74																
7280	1600	893	3.93	979	4.99																
7735	1700	906	4.15	987	5.26	1068	6.40														
8190	1800	920	4.38	1000	5.52	1076	6.71	1150	7.93												
8645	1900	938	4.64	1013	5.80	1086	7.03	1159	8.30	1228	9.59										
9100	2000	957	4.92	1026	6.08	1099	7.35	1167	8.67	1236	10.01	1301	11.38								
10010	2200	997	5.52	1063	6.75	1126	8.03	1192	9.41	1255	10.85	1318	12.31	1379	13.80	1437	15.31				
10920	2400	1041	6.19	1101	7.48	1163	8.83	1220	10.22	1281	11.71	1340	13.26	1396	14.85	1454	16.45	1510	18.07	1563	19.73
11830	2600	1087	6.93	1145	8.29	1200	9.70	1257	11.16	1311	12.67	1366	14.25	1421	15.91	1474	17.61	1527	19.33	1580	21.07
12740	2800	1138	7.79	1191	9.18	1244	10.65	1295	12.18	1348	13.75	1398	15.37	1448	17.03	1500	18.80	1551	20.60	1599	22.44
13650	3000	1189	8.74	1239	10.17	1289	11.69	1338	13.28	1385	14.92	1435	16.60	1483	18.32	1528	20.08	1577	21.93		
14560	3200	1241	9.78	1290	11.29	1335	12.83	1383	14.48	1429	16.18	1473	17.92	1520	19.71	1565	21.54	1608	23.39		
15470	3400	1296	10.94	1341	12.50	1386	14.12	1429	15.78	1474	17.55	1517	19.35	1558	21.20	1602	23.09				
16380	3600	1353	12.23	1394	13.82	1437	15.51	1479	17.23	1519	19.01	1562	20.89	1603	22.80						
17290	3800	1411	13.65	1448	15.28	1489	17.02	1529	18.81	1568	20.64	1607	22.53								
18200	4000	1470	15.19	1506	16.89	1542	18.64	1581	20.50	1619	22.40										
19110	4200	1529	16.86	1564	18.63	1597	20.43														
20020	4400	1589	18.67																		

Fans may be used up to the maximum RPM as listed above.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8833STAR

MAXIMUM OPERATING RPM

FAN TEMPERATURE

SIZE 8833	-20° to 150°F
Aluminum Wheel	1470 RPM
Steel Wheel	1826 RPM

Wheel Diameter	33.46 inches
Wheel Circumference	8.76 feet
Inlet Diameter/Area	32.25 inches dia./5.67 sq. ft.
Outlet Area	5.47 sq. ft.
Tip Speed	8.76 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3282	600	295	0.22	343	0.33																
3829	700	314	0.26	355	0.38	396	0.52	439	0.67												
4376	800	335	0.30	373	0.43	409	0.58	444	0.73	482	0.91										
4923	900	358	0.36	393	0.50	426	0.65	458	0.81	490	0.99	523	1.17	556	1.37						
5470	1000	382	0.42	415	0.57	445	0.73	475	0.90	504	1.08	533	1.27	560	1.47	621	1.91				
6017	1100	407	0.50	437	0.66	467	0.83	494	1.00	522	1.19	547	1.39	574	1.59	626	2.03	681	2.52		
6564	1200	434	0.59	462	0.75	489	0.93	515	1.12	541	1.31	566	1.52	589	1.73	637	2.18	685	2.67	736	3.19
7111	1300	462	0.68	487	0.86	512	1.05	537	1.25	561	1.45	585	1.66	608	1.88	652	2.34	696	2.84	740	3.37
7658	1400	489	0.80	513	0.98	537	1.18	560	1.39	583	1.60	606	1.82	627	2.05	670	2.52	711	3.03	751	3.57
8205	1500	517	0.92	540	1.12	562	1.32	584	1.54	605	1.76	627	1.99	648	2.23	689	2.72	727	3.24	766	3.79
8752	1600	546	1.06	567	1.27	588	1.48	609	1.71	629	1.94	649	2.18	670	2.43	708	2.94	746	3.47	782	4.03
9299	1700	575	1.22	595	1.43	615	1.66	634	1.90	654	2.14	673	2.39	692	2.64	729	3.17	765	3.72	801	4.30
9846	1800	605	1.40	623	1.62	642	1.86	660	2.10	679	2.35	697	2.61	715	2.88	751	3.42	786	3.99	820	4.58
10393	1900	635	1.59	651	1.82	670	2.07	687	2.32	704	2.58	722	2.85	740	3.13	773	3.69	807	4.28	839	4.89
10940	2000	665	1.80	680	2.04	698	2.30	714	2.56	731	2.83	747	3.11	764	3.39	797	3.98	829	4.59	861	5.21
12034	2200	726	2.29	740	2.55	754	2.82	770	3.10	785	3.39	800	3.69	814	3.99	845	4.62	875	5.27	904	5.93
13128	2400	787	2.87	800	3.15	813	3.43	826	3.73	841	4.04	855	4.36	868	4.68	895	5.34	924	6.03	951	6.74
14222	2600	849	3.55	861	3.85	872	4.15	884	4.46	897	4.79	910	5.13	923	5.47	948	6.17	973	6.89	1000	7.64
15316	2800	910	4.33	922	4.65	933	4.97	943	5.30	954	5.64	966	6.00	979	6.36	1003	7.10	1026	7.86	1049	8.64
16410	3000	972	5.22	983	5.56	993	5.91	1003	6.26	1013	6.62	1023	6.98	1035	7.36	1058	8.15	1080	8.95	1101	9.76
17504	3200	1034	6.23	1044	6.60	1054	6.97	1064	7.34	1073	7.72	1082	8.10	1092	8.48	1114	9.31	1135	10.15	1155	11.01
18598	3400	1096	7.38	1106	7.76	1115	8.16	1124	8.55	1133	8.95	1142	9.35	1151	9.75	1170	10.59	1190	11.48	1210	12.38
19692	3600	1159	8.66	1168	9.07	1176	9.48	1185	9.90	1194	10.31	1202	10.74	1211	11.16	1227	12.02	1246	12.94	1266	13.89
20786	3800	1221	10.08	1230	10.52	1238	10.95	1246	11.39	1255	11.83	1263	12.27	1271	12.72	1286	13.62	1303	14.55	1321	15.53

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7111	1300	788	3.94																		
7658	1400	792	4.13	878	5.37																
8205	1500	804	4.37	882	5.62																
8752	1600	818	4.62	888	5.87	965	7.25														
9299	1700	834	4.89	902	6.17	969	7.55	1041	9.05												
9846	1800	853	5.20	916	6.49	979	7.89	1045	9.39	1112	10.99										
10393	1900	872	5.52	932	6.84	994	8.26	1051	9.75	1116	11.37	1179	13.07								
10940	2000	891	5.86	951	7.21	1008	8.65	1066	10.18	1120	11.77	1183	13.51	1243	15.29						
12034	2200	933	6.61	989	8.03	1043	9.53	1095	11.08	1148	12.75	1199	14.46	1251	16.27	1308	18.19	1362	20.16		
13128	2400	977	7.46	1031	8.95	1081	10.50	1131	12.13	1178	13.82	1227	15.60	1275	17.44	1320	19.32	1370	21.33	1422	23.42
14222	2600	1025	8.40	1074	9.97	1123	11.60	1170	13.28	1216	15.04	1260	16.85	1304	18.73	1349	20.70	1393	22.70	1434	24.76
15316	2800	1074	9.45	1120	11.10	1166	12.80	1211	14.56	1254	16.37	1298	18.25	1339	20.19	1379	22.16	1421	24.24	1463	26.37
16410	3000	1123	10.60	1168	12.33	1211	14.12	1254	15.95	1296	17.84	1336	19.77	1377	21.78	1417	23.83	1454	25.92		
17504	3200	1175	11.88	1218	13.68	1259	15.55	1298	17.47	1339	19.43	1379	21.44	1416	23.49	1455	25.61				
18598	3400	1230	13.29	1268	15.16	1308	17.11	1346	19.11	1383	21.15	1422	23.24	1459	25.37						
19692	3600	1284	14.84	1320	16.79	1357	18.81	1395	20.89	1431	23.01	1466	25.18								
20786	3800	1339	16.53	1374	18.56	1408	20.64	1444	22.80												
21880	4000	1395	18.37	1429	20.49	1461	22.65														
22974	4200	1451	20.37																		

Fans may be used up to the maximum RPM as listed above.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8837STAR

Wheel Diameter	36.50 inches
Wheel Circumference	9.56 feet
Inlet Diameter/Area	35.75 inches dia./6.97 sq. ft.
Outlet Area	6.51 sq. ft.
Tip Speed	9.56 x RPM ft./minute

MAXIMUM OPERATING RPM

FAN TEMPERATURE

SIZE 8837	-20° to 150°F
Aluminum Wheel	1350 RPM
Steel Wheel	1674 RPM

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3906	600	270	0.26	314	0.40																
4557	700	287	0.30	326	0.45	363	0.61	403	0.80												
5208	800	307	0.36	342	0.52	375	0.69	407	0.87	442	1.08										
5859	900	328	0.43	360	0.59	391	0.77	420	0.97	449	1.17	479	1.40	510	1.63						
6510	1000	350	0.51	380	0.68	408	0.87	436	1.07	462	1.29	488	1.51	514	1.75	570	2.27				
7161	1100	373	0.59	401	0.78	428	0.98	453	1.19	478	1.42	502	1.65	526	1.90	573	2.42	624	3.00		
7812	1200	398	0.70	423	0.90	448	1.11	472	1.33	496	1.56	519	1.81	540	2.06	584	2.59	628	3.17	675	3.80
8463	1300	423	0.81	446	1.03	470	1.25	492	1.48	515	1.73	536	1.98	557	2.24	598	2.79	638	3.38	678	4.01
9114	1400	449	0.95	470	1.17	492	1.41	513	1.65	535	1.90	555	2.17	575	2.44	614	3.00	652	3.61	689	4.25
9765	1500	474	1.10	495	1.33	515	1.58	536	1.83	555	2.10	575	2.37	594	2.65	631	3.24	667	3.86	702	4.51
10416	1600	500	1.26	520	1.51	539	1.77	558	2.04	577	2.31	595	2.60	614	2.89	649	3.49	684	4.13	717	4.80
11067	1700	528	1.45	546	1.71	564	1.98	581	2.26	599	2.55	617	2.84	634	3.15	669	3.77	702	4.43	734	5.12
11718	1800	555	1.66	571	1.93	589	2.21	605	2.50	622	2.80	639	3.11	656	3.42	689	4.07	720	4.75	751	5.45
12369	1900	582	1.89	597	2.16	614	2.46	630	2.76	645	3.07	662	3.39	678	3.72	709	4.40	740	5.09	769	5.81
13020	2000	610	2.15	624	2.43	640	2.73	655	3.05	670	3.37	685	3.70	701	4.04	730	4.74	760	5.46	789	6.21
14322	2200	666	2.73	678	3.04	691	3.35	706	3.69	720	4.04	733	4.39	747	4.75	775	5.50	802	6.27	829	7.06
15624	2400	722	3.42	734	3.75	745	4.09	757	4.44	771	4.81	784	5.19	796	5.58	821	6.36	847	7.18	872	8.02
16926	2600	778	4.22	789	4.58	800	4.94	810	5.31	822	5.70	834	6.10	846	6.51	869	7.35	892	8.20	916	9.09
18228	2800	835	5.15	845	5.53	855	5.92	865	6.31	875	6.71	886	7.14	897	7.57	919	8.45	940	9.36	962	10.29
19530	3000	891	6.21	901	6.62	911	7.04	920	7.45	929	7.88	938	8.30	949	8.76	970	9.70	990	10.65	1010	11.62
20832	3200	948	7.42	957	7.86	966	8.30	975	8.74	984	9.19	992	9.64	1001	10.09	1021	11.08	1040	12.08	1059	13.10
22134	3400	1005	8.78	1014	9.24	1022	9.71	1031	10.18	1039	10.65	1047	11.13	1055	11.61	1073	12.61	1091	13.66	1110	14.73
23436	3600	1062	10.31	1070	10.79	1079	11.28	1087	11.78	1094	12.28	1102	12.78	1110	13.29	1125	14.31	1143	15.41	1160	16.53
24738	3800	1119	12.00	1127	12.52	1135	13.03	1143	13.56	1150	14.08	1158	14.61	1165	15.14	1179	16.21	1194	17.32	1211	18.49

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8463	1300	722	4.68																		
9114	1400	726	4.92	805	6.39																
9765	1500	737	5.20	809	6.68																
10416	1600	750	5.50	814	6.98	885	8.63														
11067	1700	764	5.82	827	7.35	888	8.98	954	10.77												
11718	1800	782	6.19	840	7.73	898	9.38	958	11.17	1020	13.07										
12369	1900	799	6.57	854	8.14	911	9.83	964	11.60	1023	13.54	1081	15.55								
13020	2000	817	6.97	872	8.59	924	10.29	977	12.11	1027	14.01	1085	16.07	1139	18.20						
14322	2200	856	7.87	907	9.56	956	11.34	1003	13.19	1052	15.17	1099	17.21	1147	19.36	1199	21.65	1249	23.99		
15624	2400	896	8.88	945	10.65	991	12.50	1037	14.44	1080	16.44	1125	18.56	1169	20.75	1211	23.00	1256	25.38	1304	27.87
16926	2600	939	10.00	985	11.87	1029	13.80	1072	15.81	1115	17.90	1155	20.05	1195	22.29	1237	24.63	1277	27.02	1315	29.46
18228	2800	984	11.24	1027	13.21	1069	15.24	1110	17.32	1150	19.48	1190	21.73	1228	24.02	1264	26.37	1303	28.85	1341	31.38
19530	3000	1030	12.61	1071	14.68	1110	16.80	1150	18.99	1188	21.23	1225	23.52	1263	25.92	1299	28.36	1333	30.85		
20832	3200	1078	14.14	1116	16.29	1154	18.51	1190	20.79	1228	23.13	1264	25.52	1298	27.95	1334	30.48				
22134	3400	1127	15.82	1162	18.05	1199	20.37	1234	22.74	1268	25.18	1304	27.66	1338	30.19						
23436	3600	1177	17.67	1210	19.98	1244	22.38	1279	24.86	1312	27.39	1344	29.97								
24738	3800	1228	19.68	1260	22.10	1291	24.57	1324	27.14												
26040	4000	1279	21.87	1310	24.39	1340	26.96														
27342	4200	1331	24.25																		

Fans may be used up to the maximum RPM as listed above.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

8800 STAR SERIES

PLENUM FANS

SIZE 8843STAR

MAXIMUM OPERATING RPM
FAN TEMPERATURE

SIZE 8843	-20° to 150°F
Aluminum Wheel	1150 RPM
Steel Wheel	1438 RPM

Wheel Diameter	42.50 inches
Wheel Circumference	11.13 feet
Inlet Diameter/Area	41.80 inches dia./9.53 sq. ft.
Outlet Area	8.83 sq. ft.
Tip Speed	11.13 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5298	600	232	0.35	270	0.54																
6181	700	247	0.41	280	0.61	312	0.83	346	1.08												
7064	800	264	0.49	294	0.70	322	0.93	349	1.18	380	1.46										
7947	900	282	0.58	309	0.81	336	1.05	361	1.31	385	1.59	411	1.89	438	2.22						
8830	1000	301	0.69	326	0.93	351	1.18	374	1.46	397	1.75	420	2.05	441	2.37	489	3.09				
9713	1100	321	0.81	345	1.06	368	1.33	389	1.62	411	1.92	431	2.24	452	2.57	493	3.28	536	4.07		
10596	1200	342	0.95	364	1.22	385	1.51	406	1.81	426	2.12	445	2.45	464	2.79	502	3.52	539	4.30	580	5.16
11479	1300	364	1.10	383	1.39	404	1.70	423	2.01	442	2.34	461	2.68	479	3.04	513	3.78	548	4.58	583	5.43
12362	1400	385	1.28	404	1.59	423	1.91	441	2.24	459	2.58	477	2.94	494	3.30	527	4.07	560	4.89	592	5.76
13245	1500	408	1.49	425	1.81	442	2.14	460	2.49	477	2.85	494	3.22	510	3.60	542	4.39	573	5.23	603	6.12
14128	1600	430	1.71	447	2.05	463	2.40	479	2.76	496	3.14	511	3.53	527	3.92	558	4.74	588	5.61	616	6.51
15011	1700	453	1.97	469	2.32	484	2.68	499	3.06	515	3.45	530	3.86	545	4.27	574	5.12	603	6.01	630	6.94
15894	1800	477	2.25	491	2.61	506	3.00	520	3.39	535	3.80	549	4.22	563	4.64	592	5.53	619	6.44	645	7.40
16777	1900	500	2.57	513	2.94	528	3.34	541	3.75	554	4.17	569	4.60	582	5.05	609	5.96	636	6.91	661	7.89
17660	2000	524	2.91	536	3.30	549	3.71	563	4.14	576	4.57	588	5.02	602	5.48	627	6.43	653	7.41	678	8.42
19426	2200	572	3.70	583	4.12	594	4.55	606	5.01	618	5.48	630	5.96	641	6.45	666	7.46	689	8.51	712	9.58
21192	2400	620	4.64	630	5.09	640	5.55	651	6.03	662	6.53	673	7.04	684	7.57	705	8.63	727	9.74	749	10.88
22958	2600	668	5.73	678	6.21	687	6.71	696	7.21	706	7.73	717	8.28	727	8.84	747	9.97	767	11.13	787	12.34
24724	2800	717	6.99	726	7.51	735	8.04	743	8.57	751	9.11	761	9.68	771	10.27	790	11.47	808	12.70	826	13.96
26490	3000	766	8.43	774	8.99	782	9.55	790	10.12	798	10.69	806	11.27	815	11.89	833	13.16	851	14.45	867	15.76
28256	3200	815	10.07	822	10.66	830	11.26	838	11.86	845	12.47	853	13.08	860	13.70	877	15.03	894	16.39	910	17.78
30022	3400	864	11.92	871	12.55	878	13.18	886	13.81	893	14.46	900	15.10	907	15.75	921	17.11	938	18.54	953	19.99
31788	3600	913	13.99	920	14.65	927	15.32	934	15.99	940	16.66	947	17.35	954	18.03	967	19.42	982	20.91	997	22.43
33554	3800	962	16.30	969	16.99	975	17.69	982	18.40	988	19.11	995	19.83	1001	20.55	1013	22.00	1026	23.50	1041	25.09

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11479	1300	620	6.35																		
12362	1400	623	6.67	692	8.67																
13245	1500	633	7.05	695	9.06																
14128	1600	644	7.46	699	9.47	760	11.71														
15011	1700	657	7.90	710	9.97	763	12.18	820	14.60												
15894	1800	671	8.39	722	10.48	771	12.73	823	15.15	876	17.73										
16777	1900	686	8.91	734	11.04	782	13.33	828	15.74	879	18.36	928	21.09								
17660	2000	701	9.46	749	11.65	794	13.96	839	16.43	882	18.99	932	21.80	979	24.68						
19426	2200	735	10.68	779	12.96	822	15.38	862	17.89	904	20.58	944	23.34	985	26.26	1030	29.36	1072	32.53		
21192	2400	770	12.05	812	14.45	852	16.96	891	19.59	928	22.30	966	25.18	1004	28.15	1040	31.19	1079	34.42	1120	37.80
22958	2600	807	13.57	846	16.10	884	18.72	921	21.44	958	24.28	992	27.20	1027	30.23	1062	33.41	1096	36.65	1129	39.96
24724	2800	846	15.25	882	17.92	918	20.67	954	23.50	988	26.43	1022	29.47	1055	32.59	1086	35.77	1119	39.12		
26490	3000	885	17.12	920	19.91	953	22.79	988	25.76	1021	28.80	1052	31.91	1085	35.16	1116	38.47	1145	41.85		
28256	3200	926	19.18	959	22.10	991	25.11	1023	28.20	1055	31.37	1086	34.61	1115	37.92	1146	41.35				
30022	3400	968	21.47	998	24.49	1030	27.63	1060	30.86	1089	34.16	1120	37.53	1149	40.96						
31788	3600	1012	23.97	1040	27.11	1069	30.37	1098	33.73	1127	37.16										
33554	3800	1055	26.70	1082	29.98	1109	33.34	1137	36.83												
35320	4000	1099	29.68	1126	33.09																
37086	4200	1143	32.91																		

Fans may be used up to the maximum RPM as listed above.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8849STAR

Wheel Diameter	49 inches
Wheel Circumference	12.83 feet
Inlet Diameter/Area	48.00 inches dia./12.57 sq. ft.
Outlet Area	11.73 sq. ft.
Tip Speed	12.83 x RPM ft./minute

MAXIMUM OPERATING RPM
FAN TEMPERATURE

SIZE 8849	-20° to 150°F
Aluminum Wheel	1000 RPM
Steel Wheel	1247 RPM

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7038	600	201	0.46	234	0.71																
8211	700	214	0.55	243	0.81	270	1.11	300	1.44												
9384	800	229	0.65	255	0.93	279	1.24	303	1.57	329	1.94										
10557	900	244	0.77	268	1.07	291	1.39	313	1.74	334	2.11	357	2.52	380	2.94						
11730	1000	261	0.91	283	1.23	304	1.57	325	1.93	344	2.32	364	2.73	383	3.15	424	4.10				
12903	1100	278	1.07	299	1.41	319	1.77	338	2.15	356	2.55	374	2.97	392	3.42	427	4.36	465	5.40		
14076	1200	296	1.26	315	1.62	334	2.00	352	2.40	369	2.82	386	3.25	402	3.70	435	4.67	468	5.72	503	6.85
15249	1300	315	1.47	332	1.85	350	2.25	367	2.67	383	3.11	399	3.56	415	4.03	445	5.02	475	6.09	505	7.22
16422	1400	334	1.70	350	2.11	367	2.53	382	2.97	398	3.43	413	3.90	428	4.39	457	5.41	485	6.50	513	7.65
17595	1500	353	1.97	369	2.40	384	2.84	399	3.31	413	3.78	428	4.28	443	4.78	470	5.84	497	6.95	523	8.13
18768	1600	373	2.27	387	2.72	401	3.18	416	3.67	430	4.17	443	4.68	457	5.21	484	6.30	509	7.45	534	8.64
19941	1700	393	2.61	406	3.08	420	3.56	433	4.06	446	4.59	460	5.12	472	5.67	498	6.80	523	7.98	547	9.22
21114	1800	413	2.99	426	3.47	438	3.98	451	4.50	463	5.04	476	5.60	488	6.17	513	7.34	537	8.56	560	9.83
22287	1900	434	3.41	445	3.90	457	4.43	469	4.98	481	5.53	493	6.11	505	6.70	528	7.92	551	9.18	573	10.48
23460	2000	454	3.87	465	4.38	476	4.92	488	5.49	499	6.07	510	6.67	522	7.28	544	8.54	566	9.84	588	11.18
25806	2200	496	4.92	505	5.47	515	6.04	526	6.65	536	7.28	546	7.91	556	8.56	577	9.91	597	11.30	617	12.72
28152	2400	538	6.15	546	6.75	555	7.36	564	8.00	574	8.67	584	9.35	593	10.04	611	11.46	631	12.94	649	14.45
30498	2600	579	7.60	588	8.25	596	8.90	603	9.57	612	10.27	621	10.99	630	11.73	647	13.23	665	14.78	683	16.38
32844	2800	622	9.27	629	9.97	637	10.67	644	11.38	651	12.09	660	12.86	668	13.64	685	15.23	700	16.86	717	18.53
35190	3000	664	11.19	671	11.93	678	12.67	685	13.43	692	14.19	699	14.96	707	15.78	722	17.47	737	19.18	752	20.93
37536	3200	706	13.37	713	14.15	720	14.94	726	15.74	733	16.55	739	17.36	745	18.18	760	19.96	775	21.76	789	23.60
39882	3400	749	15.82	755	16.65	761	17.49	768	18.33	774	19.18	780	20.04	786	20.91	799	22.72	813	24.62	826	26.54
42228	3600	791	18.56	797	19.44	803	20.33	809	21.22	815	22.12	821	23.02	827	23.93	838	25.78	851	27.75	864	29.78
44574	3800	834	21.62	840	22.55	845	23.48	851	24.42	857	25.36	862	26.31	868	27.27	878	29.20	890	31.20	902	33.31

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15249	1300	538	8.44																		
16422	1400	541	8.86	600	11.52																
17595	1500	549	9.36	603	12.04																
18768	1600	559	9.91	606	12.58	659	15.56														
19941	1700	569	10.49	616	13.24	662	16.19	711	19.40												
21114	1800	582	11.14	626	13.93	669	16.91	714	20.13	759	23.56										
22287	1900	595	11.83	636	14.66	678	17.71	718	20.91	762	24.39	805	28.02								
23460	2000	608	12.56	649	15.47	688	18.55	728	21.83	765	25.24	808	28.96	849	32.79						
25806	2200	637	14.18	675	17.22	712	20.43	747	23.77	784	27.34	818	31.01	854	34.89	893	39.01	930	43.22		
28152	2400	667	16.00	704	19.19	738	22.52	773	26.02	805	29.63	838	33.45	871	37.39	902	41.44	936	45.74	971	50.23
30498	2600	700	18.02	734	21.38	767	24.87	799	28.48	830	32.26	860	36.13	890	40.16	921	44.38	951	48.69	979	53.09
32844	2800	733	20.25	765	23.79	796	27.45	827	31.21	856	35.10	886	39.15	914	43.29	942	47.52	971	51.98	999	56.55
35190	3000	767	22.73	798	26.44	827	30.27	857	34.21	885	38.25	912	42.39	940	46.70	967	51.10	993	55.59		
37536	3200	803	25.47	831	29.34	860	33.35	887	37.46	915	41.67	941	45.97	967	50.37	993	54.92				
39882	3400	840	28.50	866	32.51	893	36.69	919	40.98	945	45.36	971	49.84	996	54.40						
42228	3600	877	31.82	901	36.00	927	40.33	952	44.79	977	49.34										
44574	3800	915	35.45	938	39.81	961	44.26	986	48.90												
46920	4000	953	39.40	976	43.94	998	48.57														
49266	4200	991	43.68																		

Fans may be used up to the maximum RPM as listed above.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8854STAR

MAXIMUM OPERATING RPM
FAN TEMPERATURE

SIZE 8854	-20° to 150°F
Aluminum Wheel	900 RPM
Steel Wheel	1126 RPM

Wheel Diameter	54.34 inches
Wheel Circumference	14.23 feet
Inlet Diameter/Area	52.50 inches dia./15.03 sq. ft.
Outlet Area	14.42 sq. ft.
Tip Speed	14.23 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8652	600	181	0.57	211	0.88																
10094	700	193	0.67	219	1.00	244	1.36	270	1.77												
11536	800	206	0.80	230	1.14	252	1.52	273	1.93	297	2.39										
12978	900	220	0.95	242	1.31	262	1.71	282	2.14	301	2.60	322	3.09	342	3.62						
14420	1000	235	1.12	255	1.51	274	1.93	293	2.38	310	2.85	328	3.35	345	3.88	383	5.04				
15862	1100	251	1.32	269	1.74	287	2.18	304	2.65	321	3.14	337	3.65	353	4.20	385	5.36	419	6.64		
17304	1200	267	1.54	284	1.99	301	2.46	317	2.95	333	3.46	348	4.00	363	4.55	392	5.75	422	7.03	453	8.42
18746	1300	284	1.80	300	2.27	315	2.77	331	3.29	346	3.82	360	4.38	374	4.96	401	6.17	429	7.48	456	8.88
20188	1400	301	2.09	316	2.59	330	3.11	345	3.66	359	4.22	373	4.80	386	5.39	412	6.65	438	7.99	463	9.41
21630	1500	318	2.42	332	2.95	346	3.49	360	4.06	373	4.65	386	5.26	399	5.88	424	7.18	448	8.54	472	9.99
23072	1600	336	2.79	349	3.34	362	3.91	375	4.51	387	5.12	400	5.75	412	6.40	436	7.74	459	9.16	481	10.62
24514	1700	354	3.21	366	3.78	378	4.38	390	4.99	403	5.64	414	6.30	426	6.97	449	8.36	471	9.81	493	11.33
25956	1800	373	3.68	384	4.26	395	4.89	406	5.53	418	6.20	429	6.88	440	7.58	462	9.02	484	10.52	505	12.08
27398	1900	391	4.19	401	4.79	412	5.45	423	6.11	433	6.80	444	7.51	455	8.24	476	9.73	497	11.28	517	12.88
28840	2000	410	4.75	419	5.38	429	6.05	440	6.75	450	7.46	460	8.19	470	8.95	490	10.50	510	12.10	530	13.74
31724	2200	447	6.04	455	6.72	464	7.42	474	8.18	483	8.94	492	9.73	501	10.52	520	12.18	539	13.88	557	15.64
34608	2400	485	7.56	492	8.30	500	9.05	508	9.83	517	10.66	526	11.49	534	12.34	551	14.08	569	15.90	585	17.76
37492	2600	522	9.34	530	10.13	537	10.94	544	11.75	552	12.62	560	13.51	568	14.42	584	16.26	599	18.16	615	20.13
40376	2800	560	11.39	567	12.24	574	13.10	581	13.98	587	14.86	595	15.80	602	16.76	617	18.72	631	20.72	646	22.77
43260	3000	598	13.75	605	14.65	611	15.57	618	16.50	624	17.43	630	18.38	637	19.39	651	21.46	665	23.57	678	25.72
46144	3200	636	16.42	643	17.38	649	18.36	655	19.34	660	20.33	666	21.33	672	22.34	685	24.52	699	26.74	711	29.00
49028	3400	675	19.43	681	20.45	686	21.48	692	22.52	698	23.57	703	24.63	708	25.69	720	27.91	733	30.25	745	32.62
51912	3600	713	22.80	719	23.88	724	24.97	729	26.07	735	27.17	740	28.28	745	29.40	755	31.67	767	34.10	779	36.59
54796	3800	751	26.56	757	27.70	762	28.84	767	30.00	772	31.16	777	32.33	782	33.50	792	35.88	802	38.33	813	40.93

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18746	1300	485	10.38																		
20188	1400	487	10.90	541	14.17																
21630	1500	495	11.51	543	14.81																
23072	1600	504	12.18	547	15.47	594	19.13														
24514	1700	513	12.90	555	16.28	597	19.90	641	23.85												
25956	1800	525	13.70	564	17.12	603	20.79	644	24.75	685	28.97										
27398	1900	537	14.54	574	18.02	612	21.77	647	25.70	687	29.99	726	34.46								
28840	2000	548	15.44	585	19.02	621	22.80	656	26.83	690	31.03	729	35.61	765	40.32						
31724	2200	575	17.43	609	21.16	642	25.11	674	29.22	707	33.61	738	38.13	770	42.90	805	47.96	839	53.14		
34608	2400	602	19.66	635	23.59	666	27.69	696	31.99	725	36.42	756	41.12	785	45.97	813	50.95	844	56.23	876	61.76
37492	2600	631	22.14	661	26.28	691	30.56	720	35.01	749	39.65	776	44.42	803	49.38	831	54.56	857	59.86	883	65.27
40376	2800	661	24.89	689	29.24	718	33.74	746	38.37	772	43.15	799	48.12	824	53.21	849	58.42	875	63.90		
43260	3000	692	27.93	719	32.50	745	37.20	772	42.05	798	47.01	823	52.10	848	57.40	872	62.82	895	68.33		
46144	3200	724	31.30	750	36.06	775	40.99	799	46.04	825	51.22	849	56.51	872	61.91	896	67.52				
49028	3400	757	35.03	780	39.96	805	45.10	829	50.36	852	55.75	875	61.26	898	66.87						
51912	3600	790	39.11	813	44.24	836	49.56	859	55.04	881	60.65										
54796	3800	824	43.56	846	48.92	867	54.40	889	60.10												
57680	4000	859	48.41	880	53.99	900	59.69														
60564	4200	893	53.67																		

Fans may be used up to the maximum RPM as listed above.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

SIZE 8860STAR

Wheel Diameter	60.84 inches
Wheel Circumference	15.93 feet
Inlet Diameter/Area	60.10 inches dia./19.70 sq. ft.
Outlet Area	18.08 sq. ft.
Tip Speed	15.93 x RPM ft./minute

MAXIMUM OPERATING RPM
FAN TEMPERATURE

SIZE 8860	-20° to 150°F
Aluminum Wheel	N/A
Steel Wheel	1004 RPM

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10848	600	162	0.71	188	1.10																
12656	700	172	0.85	195	1.25	218	1.71	242	2.22												
14464	800	184	1.00	205	1.43	225	1.91	244	2.42	265	3.00										
16272	900	197	1.19	216	1.65	234	2.15	252	2.68	269	3.26	287	3.88	306	4.54						
18080	1000	210	1.40	228	1.90	245	2.42	261	2.98	277	3.57	293	4.21	308	4.86	342	6.32				
19888	1100	224	1.65	241	2.18	257	2.73	272	3.32	287	3.94	301	4.58	316	5.27	344	6.72	375	8.33		
21696	1200	239	1.93	254	2.49	269	3.08	283	3.70	297	4.34	311	5.01	324	5.71	351	7.20	377	8.81	405	10.56
23504	1300	254	2.26	268	2.85	282	3.47	295	4.12	309	4.79	322	5.49	334	6.21	359	7.74	383	9.38	407	11.13
25312	1400	269	2.63	282	3.25	295	3.90	308	4.58	321	5.29	333	6.01	345	6.76	368	8.34	391	10.01	413	11.79
27120	1500	284	3.04	297	3.70	309	4.38	321	5.09	333	5.83	345	6.59	356	7.37	379	9.00	400	10.71	421	12.53
28928	1600	300	3.50	312	4.19	323	4.91	335	5.65	346	6.42	357	7.22	368	8.03	389	9.70	410	11.48	430	13.32
30736	1700	316	4.03	327	4.74	338	5.49	349	6.26	360	7.07	370	7.89	380	8.74	401	10.48	421	12.30	440	14.21
32544	1800	333	4.61	343	5.35	353	6.13	363	6.93	373	7.77	383	8.63	393	9.51	413	11.31	432	13.19	451	15.14
34352	1900	349	5.25	358	6.01	368	6.83	378	7.67	387	8.53	397	9.42	407	10.33	425	12.21	444	14.15	462	16.15
36160	2000	366	5.96	374	6.74	384	7.59	393	8.46	402	9.36	411	10.27	420	11.22	438	13.16	456	15.17	473	17.23
39776	2200	399	7.57	407	8.43	415	9.31	423	10.25	432	11.22	440	12.20	448	13.19	465	15.27	481	17.41	497	19.61
43392	2400	433	9.48	440	10.41	447	11.35	454	12.33	462	13.36	470	14.41	477	15.48	492	17.66	508	19.94	523	22.27
47008	2600	467	11.71	473	12.71	480	13.72	486	14.74	493	15.82	500	16.94	508	18.08	521	20.39	535	22.78	550	25.25
50624	2800	500	14.29	507	15.36	513	16.44	519	17.53	524	18.63	531	19.81	538	21.02	551	23.47	564	25.98	577	28.56
54240	3000	534	17.24	540	18.38	546	19.53	552	20.69	557	21.87	563	23.05	569	24.32	582	26.92	594	29.56	606	32.26
57856	3200	569	20.59	574	21.80	580	23.02	585	24.26	590	25.50	595	26.76	600	28.02	612	30.75	624	33.54	635	36.37
61472	3400	603	24.37	608	25.65	613	26.94	618	28.25	623	29.56	628	30.89	633	32.22	643	35.00	655	37.93	665	40.91
65088	3600	637	28.60	642	29.96	647	31.32	652	32.69	656	34.08	661	35.47	666	36.88	675	39.72	685	42.77	696	45.88
68704	3800	671	33.32	676	34.74	681	36.18	685	37.62	690	39.08	694	40.54	699	42.02	707	45.00	716	48.07	727	51.33

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
23504	1300	433	13.01																		
25312	1400	435	13.66	483	17.76																
27120	1500	442	14.43	485	18.56																
28928	1600	450	15.27	488	19.40	531	23.98														
30736	1700	458	16.17	496	20.41	533	24.95	573	29.90												
32544	1800	469	17.18	504	21.47	538	26.06	575	31.03	612	36.31										
34352	1900	479	18.24	513	22.60	546	27.30	578	32.22	614	37.60	649	43.20								
36160	2000	490	19.36	523	23.85	554	28.59	586	33.64	616	38.90	651	44.64	684	50.55						
39776	2200	513	21.86	544	26.54	574	31.49	602	36.64	631	42.13	659	47.80	688	53.78	719	60.13	749	66.63		
43392	2400	537	24.66	567	29.58	595	34.72	622	40.11	648	45.66	675	51.55	701	57.64	726	63.88	754	70.50	782	77.42
47008	2600	563	27.77	591	32.95	617	38.32	643	43.90	669	49.72	693	55.69	717	61.91	742	68.41	766	75.05	789	81.83
50624	2800	590	31.21	616	36.67	641	42.31	666	48.11	690	54.10	714	60.34	736	66.72	758	73.25	782	80.12	804	87.16
54240	3000	618	35.02	642	40.75	666	46.65	690	52.72	713	58.95	735	65.33	757	71.98	779	78.76	800	85.68	820	92.78
57856	3200	646	39.25	670	45.22	692	51.39	714	57.73	737	64.22	758	70.86	779	77.63	800	84.65	821	91.83	840	99.14
61472	3400	676	43.92	697	50.11	719	56.55	740	63.15	761	69.91	782	76.81	802	83.85	822	91.02	842	98.39		
65088	3600	706	49.04	726	55.48	746	62.15	767	69.02	787	76.05	806	83.21	826	90.52						
68704	3800	736	54.63	756	61.35	774	68.21	794	75.36	813	82.65	832	90.09								
72320	4000	767	60.71	786	67.71	804	74.85	822	82.19	840	89.75										
75936	4200	798	67.31	816	74.59	833	82.02														
79552	4400	829	74.46																		

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
43392	2400	810	84.49																		
47008	2600	814	89.01																		
50624	2800	826	94.33																		
54240	3000	842	100.22																		

Fans may be used up to the maximum RPM as listed above.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

SOUND DATA

8815STAR

RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
650	1075	0.00	100	51	58	55	51	50	46	38	30	54
	968	0.08	90	52	57	55	50	50	45	37	29	54
	860	0.15	80	51	57	53	49	49	44	37	30	53
	753	0.20	70	50	56	53	49	49	45	38	31	53
	538	0.25	50	50	54	52	49	49	46	39	32	53
890	1472	0.00	100	59	65	65	59	58	55	48	40	63
	1325	0.15	90	60	65	65	59	58	55	48	40	63
	1178	0.28	80	59	64	63	57	56	53	47	40	62
	1030	0.38	70	59	63	63	58	57	54	48	41	62
	736	0.47	50	58	62	61	58	56	54	49	42	61
1230	2034	0.00	100	69	70	75	70	65	63	59	51	72
	1831	0.29	90	70	71	75	70	65	64	58	50	72
	1628	0.53	80	70	70	74	68	63	62	57	50	71
	1424	0.72	70	70	69	73	68	64	63	59	52	71
	1017	0.89	50	69	69	72	67	64	62	59	52	70
1690	2795	0.00	100	78	77	83	80	73	71	69	61	81
	2516	0.55	90	79	78	82	81	73	72	68	61	81
	2236	1.00	80	79	77	82	79	71	70	67	60	80
	1957	1.37	70	79	77	81	78	72	71	68	62	80
	1398	1.68	50	78	77	79	77	72	70	68	62	79
2330	3854	0.00	100	85	88	88	91	84	79	77	72	91
	3468	1.05	90	86	89	89	90	84	79	77	71	90
	3083	1.91	80	86	88	88	90	82	77	76	71	89
	2698	2.60	70	86	88	87	89	82	78	76	72	89
	1927	3.19	50	85	87	86	87	81	77	76	72	88
3200	5293	0.00	100	92	97	95	99	94	87	85	82	99
	4764	1.98	90	93	98	96	99	95	86	86	82	99
	4234	3.60	80	93	98	94	98	93	85	84	81	98
	3705	4.90	70	93	98	94	97	92	85	84	82	98
	2646	6.02	50	92	97	94	96	91	85	84	82	96

8818STAR

RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
520	1614	0.00	100	56	59	55	52	50	45	37	29	55
	1452	0.08	90	56	59	54	52	50	44	36	28	55
	1291	0.14	80	55	57	53	51	49	43	36	29	53
	1129	0.20	70	54	57	53	51	50	45	38	31	54
	807	0.24	50	53	55	52	51	49	45	38	31	54
720	2234	0.00	100	61	69	65	60	59	55	47	39	64
	2011	0.15	90	62	68	66	59	59	55	47	39	64
	1787	0.28	80	61	67	64	58	58	54	47	40	62
	1564	0.38	70	60	66	63	58	58	55	48	41	63
	1117	0.46	50	60	65	62	58	57	55	48	41	62
990	3072	0.00	100	70	75	76	70	66	64	58	50	73
	2765	0.29	90	72	75	75	69	66	64	57	49	73
	2458	0.52	80	70	74	74	68	65	63	57	50	71
	2150	0.71	70	70	73	73	68	65	64	58	51	71
	1536	0.88	50	70	72	72	68	65	63	58	52	71
1370	4251	0.00	100	81	80	86	80	74	73	69	61	82
	3826	0.55	90	82	81	85	80	74	73	68	60	82
	3401	1.00	80	81	80	84	79	72	71	67	60	81
	2976	1.37	70	82	79	83	78	73	72	69	62	81
	2126	1.68	50	81	79	82	77	73	71	69	62	80
1880	5834	0.00	100	89	89	92	91	83	80	78	71	91
	5250	1.04	90	90	90	92	91	83	80	78	71	91
	4667	1.89	80	90	89	91	89	81	79	76	70	90
	4084	2.57	70	90	88	90	89	82	79	77	72	89
	2917	3.16	50	89	88	89	87	81	79	77	72	88
2600	8068	0.00	100	96	99	98	101	94	88	86	82	101
	7261	1.99	90	97	100	98	100	94	87	86	82	100
	6454	3.62	80	97	100	97	100	92	86	85	81	99
	5647	4.92	70	97	100	96	99	92	87	86	82	99
	4034	6.05	50	96	99	96	97	91	86	85	82	98

8822STAR

RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
440	2296	0.00	100	59	60	55	54	51	44	36	28	56
	2066	0.08	90	59	60	54	54	51	44	36	28	55
	1837	0.15	80	58	58	53	53	50	44	37	30	54
	1607	0.20	70	57	58	53	53	51	45	38	31	55
	1148	0.25	50	56	56	53	52	51	45	38	31	55
610	3183	0.00	100	65	70	66	61	60	55	47	39	65
	2865	0.16	90	65	70	66	61	60	54	46	38	64
	2547	0.28	80	64	69	64	60	58	54	47	40	63
	2228	0.38	70	64	68	64	60	59	55	48	41	64
	1592	0.47	50	63	66	63	60	59	55	48	42	63
840	4383	0.00	100	72	78	76	70	68	65	58	50	74
	3945	0.29	90	73	78	76	69	68	65	57	49	74
	3507	0.53	80	71	77	75	68	67	63	57	50	72
	3068	0.73	70	71	76	74	68	67	65	58	51	72
	2192	0.89	50	71	74	73	68	66	65	58	52	72
1160	6053	0.00	100	82	83	87	80	75	74	69	61	83
	5448	0.56	90	83	84	86	80	75	74	68	60	83
	4843	1.02	80	82	83	85	79	74	72	67	60	82
	4237	1.38	70	82	82	84	78	74	73	68	61	81
	3027	1.70	50	82	81	83	78	74	73	69	62	81
1590	8297	0.00	100	92	89	95	91	83	82	79	71	92
	7468	1.05	90	93	91	94	91	82	82	78	70	92
	6638	1.91	80	93	89	94	89	81	81	77	70	90
	5808	2.60	70	93	89	93	89	82	81	78	72	90
	4149	3.20	50	92	89	91	87	82	80	78	72	89
2200	11480	0.00	100	99	100	101	101	94	89	87	82	101
	10332	2.02	90	100	101	101	101	94	89	87	81	101
	9184	3.66	80	100	100	100	100	92	88	86	81	100
	8036	4.98	70	100	100	99	99	92	88	87	82	99
	5740	6.12	50	99	99	98	98	91	88	86	82	98

8824STAR

RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
390	2580	0.00	100	57	57	55	54	50	45	39	33	55
	2322	0.07	90	56	57	54	53	49	44	39	34	54
	2064	0.14	80	54	54	52	52	49	44	39	34	54
	1806	0.21	70	53	53	51	52	50	46	41	36	54
	1290	0.29	50	55	54	52	54	53	48	44	39	57
540	3572	0.00	100	62	68	64	62	59	55	49	43	64
	3215	0.14	90	61	68	63	60	58	53	48	43	63
	2858	0.28	80	60	66	61	59	58	53	48	43	63
	2501	0.40	70	59	65	59	58	59	55	50	46	63
	1786	0.55	50	60	66	60	60	61	57	53	48	65
750	4962	0.00	100	69	75	73	70	68	64	59	53	73
	4465	0.27	90	68	75	73	69	67	63	58	53	72
	3969	0.53	80	66	73	71	67	67	63	58	53	71
	3473	0.77	70	66	72	69	65	67	64	60	55	71
	2481	1.07	50	67	73	70	67	69	67	62	58	73
1040	6880	0.00	100	78	80	85	78	76	73	69	63	82
	6192	0.51	90	77	80	84	78	75	72	67	62	81
	5504	1.02	80	76	78	83	75	74	72	67	62	80
	4816	1.47	70	75	77	81	74	73	73	69	64	79
	3440	2.05	50	77	78	82	75	74	75	71	67	81
1440	9526	0.00	100	87	87	92	88	84	82	78	72	90
	8574	0.98	90	86	86	91	87	83	81	77	72	90
	7621	1.96	80	84	84	90	85	81	81	77	72	88
	6668	2.82	70	84	84	88	84	79	81	78	73	87
	4763	3.93	50	85	85	90	85	81	83	80	76	89
2000	13231	0.00	100	94	96	97	99	93	90	87	82	99
	11908	1.89	90	93	95	97	99	92	89	86	81	99
	10585	3.79	80	92	94	95	97	90	88	86	81	97
	9262	5.44	70	91	93	94	95	88	87	87	83	96
	6615	7.57	50	93	95	95	97	89	89	89	85	98

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L_{wi} and inlet $L_{wi}A$ sound power levels for Installation Type A: Free inlet, Free outlet. Ratings do not include effects of duct end correction.

SOUND DATA

8827STAR

RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
350	3480	0.00	100	61	59	57	56	53	46	38	30	58
	3132	0.09	90	60	58	57	56	51	46	40	34	57
	2784	0.16	80	58	56	55	54	50	46	41	36	55
	2436	0.21	70	57	54	52	52	50	46	42	38	55
	2088	0.25	50	57	53	51	53	52	47	42	36	56
490	4872	0.00	100	67	71	65	64	62	57	49	41	67
	4385	0.17	90	66	70	65	64	61	56	50	44	66
	3897	0.31	80	64	68	62	62	60	55	50	45	64
	3410	0.41	70	63	67	60	60	59	56	51	47	63
	2923	0.48	50	62	67	59	59	60	57	51	46	64
670	6661	0.00	100	74	79	74	72	70	67	60	52	75
	5995	0.32	90	73	78	73	71	70	65	59	53	74
	5329	0.58	80	71	76	71	69	68	64	59	54	73
	4663	0.77	70	69	75	70	67	67	64	60	56	71
	3997	0.90	50	69	75	69	66	67	66	61	55	72
930	9246	0.00	100	84	85	86	80	78	76	70	63	84
	8322	0.62	90	83	84	85	79	78	75	69	63	83
	7397	1.12	80	81	82	84	77	76	73	69	64	81
	6472	1.49	70	79	80	82	75	74	73	69	65	80
	5548	1.73	50	78	80	82	74	73	74	70	65	80
1300	12925	0.00	100	93	92	95	89	86	85	81	74	93
	11632	1.21	90	93	91	95	88	86	84	79	74	92
	10340	2.19	80	90	89	93	86	84	82	78	74	90
	9047	2.91	70	88	87	92	84	81	81	78	74	89
	7755	3.38	50	87	87	91	83	80	82	80	75	89
1800	17896	0.00	100	100	102	101	101	94	92	90	84	102
	16106	2.32	90	100	101	101	100	93	92	89	83	101
	14317	4.21	80	97	99	99	98	91	90	88	83	99
	12527	5.58	70	95	96	97	97	89	88	87	83	97
	10738	6.47	50	94	96	97	96	88	88	88	84	97

8830STAR

RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
320	4398	0.00	100	63	59	58	58	54	46	38	31	58
	3958	0.09	90	62	58	58	57	52	46	40	34	58
	3518	0.17	80	61	56	56	55	51	46	41	36	57
	3078	0.22	70	60	55	53	54	51	47	43	39	56
	2639	0.25	50	59	53	52	54	52	47	42	37	56
440	6047	0.00	100	69	71	66	65	62	57	49	41	67
	5442	0.17	90	68	70	66	65	61	56	50	44	66
	4838	0.31	80	66	68	63	63	60	55	50	45	65
	4233	0.41	70	65	67	61	61	59	56	52	48	64
	3628	0.48	50	64	66	60	60	61	57	51	46	64
610	8383	0.00	100	75	81	74	73	72	67	60	52	76
	7545	0.33	90	74	80	73	73	71	66	60	54	75
	6707	0.60	80	72	79	71	70	69	65	60	55	74
	5868	0.80	70	70	77	70	68	68	65	61	57	72
	5030	0.92	50	70	77	68	67	69	67	61	56	73
850	11682	0.00	100	85	87	86	81	79	77	71	63	85
	10513	0.64	90	84	86	86	80	79	75	70	64	84
	9345	1.16	80	82	84	84	78	77	74	70	65	82
	8177	1.54	70	80	83	82	76	75	74	70	66	81
	7009	1.79	50	79	82	82	75	75	75	71	65	81
1170	16079	0.00	100	95	93	97	89	87	85	81	73	93
	14471	1.22	90	94	92	96	88	87	85	80	74	93
	12863	2.21	80	92	90	95	86	84	83	79	74	91
	11256	2.92	70	89	88	93	84	82	82	79	75	90
	9648	3.39	50	89	87	93	83	81	83	80	75	90
1620	22264	0.00	100	102	102	103	100	95	93	90	84	102
	20037	2.33	90	101	101	102	99	94	93	89	83	101
	17811	4.23	80	99	99	100	97	92	91	88	83	99
	15585	5.61	70	96	97	99	96	90	89	87	84	98
	13358	6.51	50	96	97	98	95	89	89	89	85	97

8833STAR

RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
290	5008	0.00	100	55	55	55	55	53	46	37	29	57
	4508	0.09	90	55	54	54	56	52	46	40	34	57
	4007	0.16	80	54	54	54	55	53	47	40	33	57
	3506	0.22	70	55	54	55	56	53	48	40	33	57
	3005	0.26	50	58	56	56	57	54	48	41	34	59
400	6908	0.00	100	63	64	61	62	62	57	48	40	65
	6217	0.18	90	64	65	61	63	63	57	51	45	66
	5527	0.31	80	62	64	60	62	62	58	51	44	65
	4836	0.41	70	63	64	60	63	62	58	51	43	66
	4145	0.49	50	66	66	62	65	63	59	51	44	67
560	9671	0.00	100	71	72	71	69	70	67	60	51	74
	8704	0.35	90	72	73	70	70	70	67	61	55	74
	7737	0.61	80	70	72	69	69	70	67	61	54	74
	6770	0.81	70	72	73	70	69	70	67	61	54	74
	5803	0.97	50	75	75	72	71	72	68	62	55	76
770	13298	0.00	100	80	80	80	76	76	76	71	62	82
	11968	0.66	90	81	81	80	75	77	76	70	64	82
	10639	1.15	80	79	79	79	74	76	76	71	64	81
	9309	1.53	70	79	81	79	75	77	76	72	64	82
	7979	1.83	50	83	84	81	77	79	78	72	65	84
1060	18307	0.00	100	87	88	88	85	83	84	81	73	90
	16476	1.25	90	88	89	89	84	83	84	80	74	90
	14645	2.18	80	86	87	87	83	83	83	81	75	89
	12815	2.91	70	86	89	88	83	83	84	81	75	90
	10984	3.46	50	90	92	90	85	85	85	82	75	91
1470	25388	0.00	100	94	97	96	94	90	90	90	84	98
	22849	2.41	90	95	98	97	94	90	91	90	84	98
	20310	4.19	80	93	96	95	93	89	90	90	85	97
	17771	5.60	70	94	97	96	93	89	91	90	85	98
	15233	6.66	50	97	100	99	95	91	93	91	86	100

8837STAR

RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
270	6053	0.00	100	56	56	56	57	54	46	37	29	58
	5448	0.10	90	58	56	57	57	54	48	42	36	58
	4842	0.17	80	56	54	55	56	54	48	41	34	58
	4237	0.22	70	56	54	56	57	54	48	41	33	58
	3632	0.27	50	59	57	58	58	55	49	41	34	60
370	8295	0.00	100	64	65	63	63	63	57	48	40	66
	7465	0.18	90	65	65	62	64	63	57	51	45	66
	6636	0.32	80	63	64	61	63	62	58	51	44	66
	5806	0.42	70	65	64	61	64	63	58	51	44	66
	4977	0.50	50	67	66	63	66	64	59	51	44	68
510	11433	0.00	100	72	73	71	70	71	67	59	51	74
	10290	0.34	90	73	74	70	70	71	66	60	54	74
	9147	0.60	80	71	73	69	70	70	67	61	54	74
	8003	0.80	70	73	73	69	70	71	67	61	54	74
	6860	0.95	50	76	75	71	72	72	68	62	54	76
710	15917	0.00	100	81	81	80	77	77	77	71	62	82
	14325	0.67	90	82	82	81	77	78	77	71	65	83
	12734	1.16	80	80	80	79	76	77	76	71	64	82
	11142	1.55	70	81	82	80	76	78	77	72	65	83
	9550	1.85	50	84	85	82	78	80	78	73	65	84
980	21970	0.00	100	89	89	89	85	84	85	81	73	90
	19773	1.27	90	90	90	89	84	85	85	80	74	91
	17576	2.22	80	88	88	88	83	84	84	81	75	90
	15379	2.96	70	88	90	89	84	85	85	81	75	90
	13182	3.52	50	92	93	91	86	86	86	82	76	92
1350	30265	0.00	100	96	98	96	94	91	91	90	84	98
	27238	2.42	90	97	99	97	94	91	92	90	84	98
	24212	4.20	80	95	97	96	93	90	91	90	85	98
	21185	5.62	70	95	98	97	93	90	92	90	85	98
	18159	6.68	50	99	101	100	95	92	94	91	86	100

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L_{wi} and inlet $L_{wi}A$ sound power levels for Installation Type A: Free inlet, Free outlet. Ratings do not include effects of duct end correction.

SOUND DATA

8843STAR

RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
230	8140	0.00	100	58	56	57	58	54	45	37	28	58
	7326	0.09	90	58	55	57	58	53	47	40	34	58
	6512	0.17	80	58	55	57	57	54	47	40	33	58
	5698	0.22	70	58	55	58	58	54	47	40	33	59
	4884	0.26	50	60	57	60	59	55	48	41	33	60
320	11325	0.00	100	66	66	64	65	63	57	48	39	67
	10193	0.18	90	67	66	64	65	63	57	51	45	67
	9060	0.32	80	65	65	63	65	63	58	51	44	67
	7928	0.43	70	66	65	64	65	63	58	51	44	67
	6795	0.51	50	69	67	66	67	64	59	51	44	69
440	15572	0.00	100	74	75	71	71	72	67	59	50	75
	14015	0.35	90	75	76	71	72	72	67	61	55	76
	12458	0.61	80	73	74	69	71	72	68	61	54	75
	10900	0.81	70	75	75	70	72	72	68	61	54	76
	9343	0.96	50	78	76	72	74	73	69	62	54	77
600	21235	0.00	100	82	82	80	78	79	76	69	61	83
	19111	0.65	90	83	83	80	78	79	76	70	64	83
	16988	1.13	80	81	82	79	77	78	76	71	64	83
	14864	1.50	70	82	82	79	78	79	77	71	64	83
	12741	1.79	50	86	85	81	80	81	78	72	64	85
830	29375	0.00	100	91	90	90	85	85	86	81	72	91
	26437	1.24	90	91	91	90	84	86	86	80	74	91
	23500	2.15	80	90	89	89	83	85	85	81	74	91
	20562	2.88	70	90	91	89	83	86	86	81	74	91
	17625	3.43	50	94	94	91	85	88	87	82	75	93
1150	40700	0.00	100	98	99	97	94	92	93	90	83	99
	36630	2.38	90	99	99	98	94	92	93	90	84	99
	32560	4.14	80	97	98	97	93	91	92	90	84	98
	28490	5.53	70	97	99	98	93	92	93	90	85	99
	24420	6.58	50	101	102	100	95	94	95	92	85	101

8849STAR

RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
200	10848	0.00	100	60	58	59	59	54	45	36	27	59
	9763	0.10	90	60	57	60	59	53	47	41	35	60
	8678	0.17	80	59	56	59	58	54	47	40	33	59
	7594	0.22	70	59	56	59	59	54	47	40	33	59
	6509	0.26	50	61	58	61	60	55	48	40	33	60
280	15187	0.00	100	68	67	66	66	64	56	48	39	68
	13668	0.19	90	69	67	66	67	63	57	51	45	68
	12150	0.33	80	67	65	65	66	64	58	51	44	68
	10631	0.44	70	68	66	66	67	64	58	51	44	68
	9112	0.52	50	70	68	68	68	65	59	51	44	69
380	20611	0.00	100	75	76	72	73	72	67	58	49	76
	18550	0.35	90	76	76	72	74	73	67	61	55	76
	16489	0.60	80	74	75	71	73	72	68	61	54	76
	14428	0.80	70	76	75	71	73	72	68	61	53	76
	12367	0.95	50	79	77	73	75	74	69	61	54	77
530	28747	0.00	100	84	84	81	80	80	77	70	61	84
	25872	0.67	90	84	85	81	80	81	77	71	65	84
	22998	1.17	80	83	83	80	79	80	77	71	64	84
	20123	1.56	70	84	84	80	80	81	77	71	64	84
	17248	1.86	50	87	86	82	82	82	79	72	65	86
720	39052	0.00	100	92	91	90	86	87	86	80	71	92
	35147	1.24	90	93	92	90	86	87	86	80	74	92
	31242	2.16	80	91	91	89	85	87	86	81	74	91
	27337	2.88	70	91	92	89	85	87	86	81	74	92
	23431	3.43	50	95	95	91	87	89	87	82	75	93
1000	54240	0.00	100	100	100	98	94	94	94	90	83	100
	48816	2.39	90	101	100	99	94	94	94	90	84	100
	43392	4.16	80	99	99	98	93	93	94	91	84	99
	37968	5.55	70	99	100	98	93	94	94	91	84	100
	32544	6.61	50	103	103	101	95	96	96	92	85	102

8854STAR

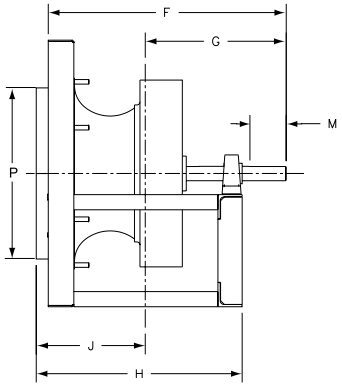
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
180	13286	0.00	100	60	59	60	59	53	44	36	27	59
	11958	0.09	90	60	58	60	58	53	47	40	34	59
	10629	0.17	80	59	57	60	59	54	47	40	33	59
	9300	0.22	70	59	58	60	59	54	47	40	33	60
	7972	0.26	50	61	59	62	60	55	47	40	33	61
250	18453	0.00	100	69	67	66	67	63	56	47	38	68
	16608	0.18	90	69	66	67	67	63	57	51	45	68
	14762	0.32	80	68	65	66	67	64	57	50	43	68
	12917	0.43	70	69	66	67	67	64	58	50	43	68
	11072	0.51	50	71	68	69	69	65	58	51	44	70
340	25096	0.00	100	76	76	73	73	72	66	57	49	76
	22586	0.34	90	77	76	73	74	72	66	60	54	76
	20077	0.59	80	75	75	72	73	72	67	60	53	76
	17567	0.79	70	76	75	72	74	73	67	60	53	76
	15058	0.94	50	79	77	74	76	74	68	61	53	78
470	34692	0.00	100	84	84	81	80	81	77	69	60	84
	31222	0.65	90	85	85	80	81	81	76	70	64	85
	27753	1.13	80	83	84	79	80	80	77	70	63	84
	24284	1.51	70	85	84	79	81	81	77	71	63	85
	20815	1.79	50	88	86	81	83	82	78	71	64	86
650	47978	0.00	100	91	91	88	87	88	84	76	67	91
	43180	1.24	90	93	93	90	87	88	86	80	74	92
	38382	2.16	80	92	91	89	86	87	86	81	74	92
	33584	2.88	70	92	93	89	87	88	86	81	74	92
	28787	3.43	50	96	95	91	89	90	87	82	74	94
900	66431	0.00	100	101	100	99	95	94	95	91	82	100
	59788	2.38	90	102	101	100	94	95	95	90	84	101
	53145	4.14	80	100	99	99	93	94	95	91	84	100
	46502	5.52	70	100	101	99	93	95	95	91	84	101
	39859	6.58	50	104	104	101	95	97	96	92	85	102

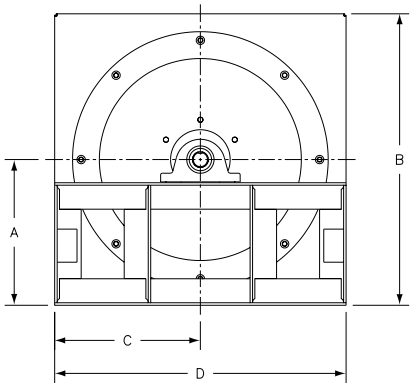
8860STAR

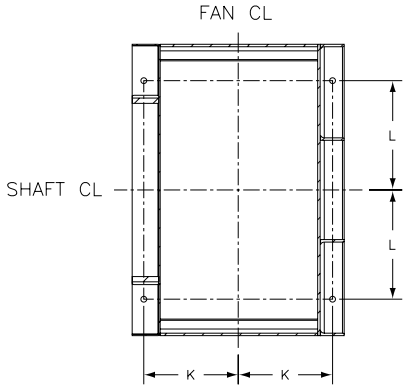
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
160	15933	0.00	100	60	59	60	58	52	43	34	25	58
	14340	0.09	90	60	59	60	58	52	46	40	34	59
	12747	0.16	80	59	58	60	58	53	46	39	32	59
	11153	0.21	70	59	59	61	59	53	46	39	32	59
	9560	0.25	50	61	61	62	60	54	47	39	32	60
220	21908	0.00	100	69	66	66	67	62	54	45	36	67
	19717	0.17	90	69	65	67	67	62	56	50	43	68
	17526	0.30	80	69	65	67	67	63	56	49	42	68
	15336	0.40	70	69	65	68	67	63	56	49	42	68
	13145	0.48	50	71	67	70	69	64	57	50	42	69
310	30870	0.00	100	77	76	74	74	72	66	57	48	76
	27783	0.34	90	78	76	74	75	72	66	60	54	76
	24696	0.60	80	77	75	73	74	73	67	60	53	76
	21609	0.80	70	78	75	74	75	73	67	60	53	77
	18522	0.95	50	80	77	76	77	74	68	61	53	78
430	42820	0.00	100	85	85	81	81	82	77	68	59	85
	38538	0.66	90	86	86	80	82	82	76	70	64	85
	34256	1.15	80	84	85	79	81	81	78	71	64	85
	29974	1.54	70	86	85	80	82	82	78	71	64	86
	25692	1.83	50	89	87	82	84	83	79	71	64	87
600	59749	0.00	100	94	93	90	88	89	86	79	71	93
	53774	1.29	90	95	94	90	88	89	86	80	74	93
	47799	2.24	80	93	93	90	88	89	87	81	74	93
	41825	3.00	70	94	94	90	88	89	87	81	74	94
	35850	3.57	50	98	96	92	90	91	88	82	75	95
842	83848	0.00	100	103	101	100	95	96	96	91	82	101
	75463	2.54	90	104	102	101	95	97	97	91	85	102
	67079	4.42	80	102	101	100	94	96	96	92	85	102
	58694	5.90	70	102	103	100	94	97	97	92	85	102
	50309	7.03	50	106	106	102	96	99	98	93	86	104

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L_{wi} and inlet $L_{wi}A$ sound power levels for Installation Type A: Free inlet, Free outlet. Ratings do not include effects of duct end correction.

DIMENSIONAL DATA - ARR. 3H

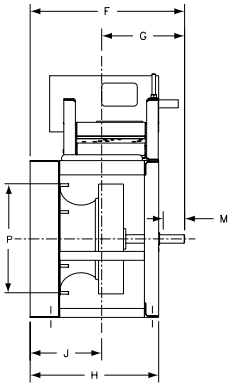


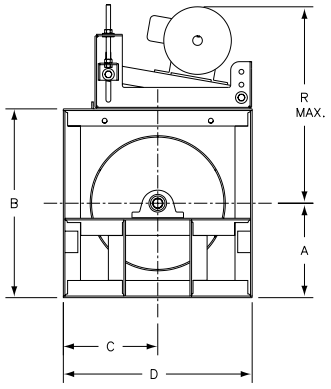


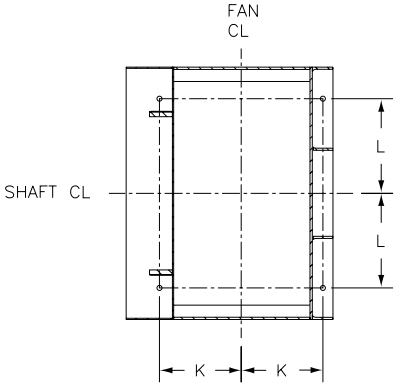


DIMENSIONS FOR ARRANGEMENT 3H													Shaft Diameter	Est.* Unit Wt.
Model Size	A	B	C	D	F	G	H	J	K	L	M	P		
8815STAR	11.00	22.00	11.00	22.00	19.63	11.63	17.00	9.00	7.13	8.25	3.00	14.13	1.1875	72
8818STAR	13.00	26.00	13.00	26.00	21.81	13.18	18.75	10.13	7.75	9.63	3.50	18.13	1.4375	94
8822STAR	16.00	32.00	16.00	32.00	24.44	15.31	19.75	10.63	8.25	11.75	4.00	20.09	1.6875	137
8824STAR	17.00	34.00	17.00	34.00	27.94	17.19	23.00	12.25	9.88	12.88	4.50	25.59	1.6875	174
8827STAR	19.00	38.00	19.00	38.00	27.88	17.13	23.00	12.25	9.88	14.13	4.50	25.59	1.6875	188
8830STAR	21.00	42.00	21.00	42.00	31.69	18.81	27.25	14.38	11.75	15.88	4.50	32.63	1.6875	238
8833STAR	23.00	46.00	23.00	46.00	34.75	20.75	29.50	15.50	12.88	17.38	5.00	35.88	1.9375	282
8837STAR	25.50	51.00	25.50	51.00	37.13	22.00	32.25	17.13	14.00	18.88	5.50	39.81	1.9375	346
8843STAR	31.00	62.00	31.00	62.00	42.69	24.81	37.75	19.88	16.50	22.88	5.50	46.25	2.4375	563
8849STAR	34.00	68.00	34.00	68.00	48.00	28.00	42.00	22.00	18.63	25.38	6.00	51.69	2.4375	696
8854STAR	38.00	76.00	38.00	76.00	54.25	31.13	47.25	24.13	21.25	27.63	6.00	51.72	2.9375	992
8860STAR	40.00	80.00	40.00	80.00	56.06	32.44	48.25	24.63	21.75	29.13	6.50	64.94	3.4375	1634

DIMENSIONAL DATA - ARR. 3F







DIMENSIONS FOR ARRANGEMENT 3F														Shaft Diameter	Est.* Unit Wt.
Model Size	A	B	C	D	F	G	H	J	K	L	M	P	R		
8815STAR	11.00	22.00	11.00	22.00	21.68	11.63	18.03	10.03	7.13	8.25	3.00	14.13	25.71	1.1875	92
8818STAR	13.00	26.00	13.00	26.00	23.81	13.18	19.25	10.63	7.75	9.63	3.50	18.13	29.30	1.4375	117
8822STAR	16.00	32.00	16.00	32.00	26.19	15.06	20.25	11.13	8.25	11.75	4.00	20.09	32.30	1.6875	167
8824STAR	17.00	34.00	17.00	34.00	30.44	17.19	24.00	13.25	9.88	12.88	4.50	25.59	36.19	1.6875	213
8827STAR	19.00	38.00	19.00	38.00	30.88	17.13	24.50	13.75	9.88	14.13	4.50	25.59	38.16	1.6875	233
8830STAR	21.00	42.00	21.00	42.00	34.25	18.81	28.31	15.44	11.75	15.88	4.50	32.63	40.19	1.6875	291
8833STAR	23.00	46.00	23.00	46.00	37.31	20.75	30.56	16.56	12.88	17.38	5.00	35.88	43.24	1.9375	340
8837STAR	25.50	51.00	25.50	51.00	39.63	22.00	32.75	17.63	14.00	18.88	5.50	39.81	45.74	1.9375	416
8843STAR	31.00	62.00	31.00	62.00	44.69	24.81	37.75	19.88	16.50	22.88	5.50	46.25	52.81	2.4375	664
8849STAR	34.00	68.00	34.00	68.00	50.00	28.00	42.00	22.00	18.63	25.37	6.00	51.69	55.81	2.4375	808
8854STAR	38.00	76.00	38.00	76.00	56.25	31.13	48.25	25.13	21.25	27.63	6.00	51.72	59.81	2.9375	1155
8860STAR	40.00	80.00	40.00	80.00	58.06	32.44	49.25	25.63	21.75	29.13	6.50	64.93	61.81	3.4375	1804

Typical drawings are for dimensional purposes only and are correct within limits suitable for normal installation requirements. They do not necessarily show actual construction. Dimensions are shown in inches.
*Estimated unit weight for aluminum wheel; for steel wheel consult factory.

PLENUM FANS

SIZE 8815

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

SIZE 8815	-20° to 150°F
CLASS I	2928 RPM
CLASS II (Steel Wheel Only)	3820 RPM
CLASS III	Consult Factory

Wheel Diameter	15 inches
Wheel Circumference	3.93 feet
Inlet Diameter/Area	15.20 inches dia./1.26 sq. ft.
Outlet Area	1.63 sq. ft.
Tip Speed	3.93 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
978	600	819	0.09	909	0.12	988	0.16	1067	0.20												
1141	700	892	0.11	978	0.15	1055	0.19	1124	0.23	1189	0.27	1258	0.32								
1304	800	968	0.13	1049	0.18	1124	0.22	1191	0.27	1253	0.32	1311	0.36	1369	0.41						
1467	900	1042	0.16	1124	0.21	1194	0.26	1260	0.31	1321	0.37	1378	0.42	1431	0.47	1533	0.58	1639	0.71		
1630	1000	1119	0.20	1200	0.26	1269	0.31	1331	0.36	1390	0.42	1446	0.48	1499	0.54	1596	0.65	1686	0.78	1784	0.91
1793	1100	1197	0.24	1275	0.30	1345	0.36	1405	0.42	1461	0.48	1515	0.54	1567	0.61	1663	0.73	1751	0.86	1833	1.00
1956	1200	1277	0.29	1351	0.35	1420	0.42	1480	0.49	1535	0.55	1587	0.62	1637	0.68	1732	0.82	1819	0.96	1900	1.10
2119	1300	1358	0.34	1429	0.41	1495	0.48	1556	0.56	1611	0.63	1661	0.70	1709	0.77	1801	0.91	1887	1.06	1967	1.21
2282	1400	1440	0.40	1508	0.48	1572	0.55	1631	0.63	1687	0.71	1737	0.78	1783	0.86	1872	1.01	1956	1.17	2035	1.33
2445	1500	1523	0.47	1589	0.55	1649	0.63	1707	0.72	1761	0.80	1813	0.88	1859	0.96	1945	1.12	2026	1.29	2104	1.46
2608	1600	1607	0.55	1670	0.64	1728	0.72	1784	0.81	1837	0.90	1887	0.98	1936	1.07	2020	1.24	2099	1.42	2175	1.60
2771	1700	1693	0.64	1752	0.73	1808	0.82	1862	0.91	1913	1.00	1963	1.09	2010	1.19	2096	1.38	2173	1.56	2246	1.75
2934	1800	1780	0.74	1835	0.83	1889	0.92	1941	1.02	1991	1.12	2039	1.22	2085	1.31	2172	1.52	2249	1.71	2320	1.90
3097	1900	1867	0.85	1918	0.94	1971	1.04	2021	1.14	2070	1.25	2116	1.35	2161	1.45	2246	1.66	2325	1.87	2395	2.07
3260	2000	1955	0.97	2002	1.06	2053	1.17	2102	1.27	2149	1.38	2194	1.49	2238	1.60	2322	1.82	2400	2.04	2471	2.26
3586	2200	2132	1.25	2176	1.35	2220	1.46	2266	1.57	2310	1.69	2353	1.81	2395	1.93	2474	2.17	2550	2.41	2622	2.65
3912	2400	2310	1.59	2351	1.69	2390	1.80	2432	1.92	2474	2.05	2515	2.18	2554	2.31	2630	2.57	2703	2.82	2772	3.09
4238	2600	2489	1.98	2528	2.09	2565	2.21	2601	2.33	2640	2.46	2679	2.60	2716	2.74	2789	3.02	2858	3.30	2925	3.58
4564	2800	2669	2.43	2705	2.55	2740	2.68	2774	2.80	2808	2.93	2845	3.08	2880	3.23	2950	3.53	3017	3.83	3081	4.13
4890	3000	2850	2.95	2884	3.08	2917	3.22	2949	3.35	2980	3.48	3012	3.63	3047	3.78	3113	4.10	3177	4.42	3239	4.75
5216	3200	3031	3.54	3063	3.68	3094	3.82	3125	3.97	3155	4.11	3184	4.25	3214	4.41	3278	4.74	3340	5.08	3399	5.43
5542	3400	3213	4.21	3243	4.36	3273	4.51	3301	4.66	3330	4.81	3358	4.96	3386	5.12	3444	5.46	3504	5.82	3561	6.18
5868	3600	3395	4.96	3424	5.12	3452	5.28	3479	5.44	3506	5.60	3533	5.76	3560	5.92	3612	6.25	3669	6.63	3725	7.01
6194	3800	3577	5.80	3605	5.96	3631	6.13	3658	6.30	3684	6.47	3709	6.63	3735	6.80	3784	7.15				

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1956	1200	1976	1.25	2134	1.57																
2119	1300	2042	1.37	2182	1.68	2331	2.04														
2282	1400	2110	1.50	2248	1.83	2378	2.17	2516	2.56												
2445	1500	2178	1.63	2315	1.98	2440	2.34	2562	2.72	2691	3.14										
2608	1600	2247	1.78	2383	2.15	2506	2.52	2622	2.91	2738	3.32	2859	3.76								
2771	1700	2317	1.93	2451	2.32	2574	2.72	2688	3.12	2796	3.53	2905	3.96	3019	4.43	3128	4.91				
2934	1800	2389	2.10	2520	2.51	2642	2.92	2756	3.34	2862	3.77	2964	4.20	3066	4.66	3175	5.16	3279	5.66		
3097	1900	2462	2.28	2590	2.70	2711	3.13	2824	3.58	2930	4.02	3030	4.47	3126	4.93	3221	5.41	3325	5.93	3425	6.46
3260	2000	2537	2.47	2661	2.91	2780	3.36	2892	3.82	2998	4.29	3097	4.75	3192	5.23	3283	5.71	3372	6.21	3471	6.75
3586	2200	2689	2.89	2809	3.37	2922	3.85	3031	4.34	3134	4.84	3233	5.35	3327	5.87	3416	6.38	3503	6.90	3586	7.44
3912	2400	2839	3.35	2961	3.88	3070	4.40	3174	4.92	3274	5.46	3371	6.00	3463	6.55	3552	7.11	3637	7.67	3720	8.23
4238	2600	2990	3.86	3112	4.44	3221	5.01	3322	5.57	3418	6.14	3511	6.71	3602	7.30	3689	7.89	3774	8.49		
4564	2800	3143	4.43	3262	5.05	3374	5.68	3473	6.28	3567	6.88	3656	7.49	3743	8.11						
4890	3000	3299	5.07	3414	5.72	3522	6.38	3626	7.06	3718	7.70	3806	8.34								
5216	3200	3457	5.77	3568	6.46	3674	7.16	3774	7.87												
5542	3400	3617	6.54	3724	7.28																
5868	3600	3779	7.39																		

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3260	2000	3567	7.31																		
3586	2200	3667	7.98																		
3912	2400	3799	8.80																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8816

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

Wheel Diameter	16.50 inches
Wheel Circumference	4.32 feet
Inlet Diameter/Area	16.94 inches dia./1.57 sq. ft.
Outlet Area	1.97 sq. ft.
Tip Speed	4.32 x RPM ft./minute

SIZE 8816	-20° to 150°F
CLASS I	2662 RPM
CLASS II (Steel Wheel Only)	3472 RPM
CLASS III	Consult Factory

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1182	600	744	0.10	826	0.14	898	0.19	970	0.24												
1379	700	810	0.13	889	0.18	959	0.23	1021	0.28	1080	0.33	1143	0.39								
1576	800	879	0.16	953	0.21	1021	0.27	1082	0.32	1139	0.38	1191	0.44	1244	0.50						
1773	900	947	0.20	1021	0.26	1085	0.32	1145	0.38	1200	0.44	1252	0.50	1300	0.57	1393	0.70	1490	0.86		
1970	1000	1017	0.24	1090	0.31	1152	0.37	1209	0.44	1263	0.51	1314	0.58	1362	0.65	1450	0.79	1532	0.94	1621	1.10
2167	1100	1088	0.29	1158	0.36	1222	0.44	1276	0.51	1327	0.58	1377	0.66	1424	0.73	1511	0.89	1591	1.04	1666	1.20
2364	1200	1160	0.35	1228	0.43	1290	0.51	1345	0.59	1395	0.66	1442	0.74	1487	0.82	1573	0.99	1652	1.16	1726	1.33
2561	1300	1234	0.41	1298	0.50	1358	0.58	1414	0.67	1463	0.76	1509	0.84	1553	0.93	1636	1.10	1714	1.28	1787	1.47
2758	1400	1308	0.49	1370	0.58	1428	0.67	1481	0.76	1532	0.86	1578	0.95	1620	1.04	1701	1.23	1777	1.41	1849	1.61
2955	1500	1383	0.57	1443	0.67	1498	0.77	1550	0.86	1600	0.96	1647	1.07	1689	1.16	1767	1.36	1841	1.56	1912	1.76
3152	1600	1460	0.66	1517	0.77	1570	0.87	1621	0.98	1669	1.08	1714	1.19	1758	1.30	1835	1.50	1907	1.71	1976	1.93
3349	1700	1537	0.77	1591	0.88	1643	0.99	1691	1.10	1738	1.21	1783	1.32	1826	1.44	1904	1.66	1974	1.88	2041	2.11
3546	1800	1616	0.89	1666	1.00	1716	1.12	1763	1.23	1809	1.35	1852	1.47	1894	1.59	1973	1.83	2043	2.06	2108	2.30
3743	1900	1696	1.03	1742	1.13	1790	1.26	1836	1.38	1880	1.50	1922	1.63	1963	1.75	2041	2.01	2112	2.26	2176	2.51
3940	2000	1776	1.17	1819	1.28	1865	1.41	1909	1.54	1952	1.67	1993	1.80	2033	1.93	2109	2.19	2181	2.46	2245	2.73
4334	2200	1936	1.51	1976	1.63	2016	1.76	2058	1.90	2098	2.04	2137	2.18	2175	2.33	2248	2.61	2316	2.91	2382	3.20
4728	2400	2098	1.91	2135	2.04	2171	2.17	2209	2.32	2247	2.47	2284	2.63	2320	2.78	2389	3.10	2455	3.41	2518	3.73
5122	2600	2261	2.39	2295	2.52	2329	2.67	2362	2.81	2398	2.97	2433	3.14	2467	3.30	2533	3.64	2596	3.98	2657	4.32
5516	2800	2424	2.93	2457	3.08	2488	3.23	2519	3.38	2550	3.54	2583	3.72	2616	3.90	2679	4.26	2740	4.62	2799	4.99
5910	3000	2588	3.56	2619	3.72	2649	3.88	2678	4.04	2707	4.20	2736	4.37	2767	4.56	2827	4.95	2886	5.34	2942	5.73
6304	3200	2753	4.27	2782	4.44	2810	4.61	2838	4.79	2865	4.96	2892	5.13	2919	5.32	2977	5.72	3033	6.13	3087	6.55
6698	3400	2918	5.08	2945	5.26	2972	5.44	2998	5.62	3024	5.81	3050	5.99	3075	6.17	3128	6.59	3182	7.02	3234	7.46
7092	3600	3083	5.98	3109	6.17	3134	6.36	3160	6.56	3184	6.75	3209	6.94	3233	7.14	3281	7.54	3333	8.00	3383	8.46
7486	3800	3249	6.99	3273	7.19	3298	7.39	3321	7.60	3345	7.80	3368	8.00	3391	8.21	3437	8.62				

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2364	1200	1795	1.51	1939	1.89																
2561	1300	1856	1.65	1983	2.03	2118	2.46														
2758	1400	1917	1.81	2042	2.21	2161	2.63	2286	3.10												
2955	1500	1979	1.97	2103	2.40	2217	2.83	2329	3.29	2446	3.79										
3152	1600	2042	2.15	2165	2.60	2277	3.05	2383	3.51	2488	4.01	2598	4.54								
3349	1700	2105	2.34	2227	2.81	2339	3.28	2443	3.77	2541	4.27	2640	4.79	2744	5.36	2843	5.94				
3546	1800	2170	2.54	2290	3.03	2401	3.53	2504	4.04	2601	4.55	2693	5.08	2786	5.64	2885	6.23	2980	6.85		
3743	1900	2237	2.75	2353	3.26	2463	3.79	2566	4.32	2662	4.86	2753	5.40	2840	5.96	2928	6.54	3022	7.17	3113	7.81
3940	2000	2305	2.99	2418	3.52	2526	4.06	2628	4.61	2724	5.18	2814	5.74	2900	6.32	2983	6.90	3064	7.50	3155	8.16
4334	2200	2443	3.50	2552	4.07	2655	4.65	2754	5.24	2848	5.85	2937	6.47	3023	7.09	3104	7.71	3183	8.34	3259	8.99
4728	2400	2579	4.05	2690	4.69	2789	5.31	2883	5.95	2975	6.59	3062	7.25	3147	7.92	3228	8.60	3305	9.27	3380	9.95
5122	2600	2716	4.66	2827	5.36	2926	6.05	3018	6.72	3105	7.41	3190	8.11	3273	8.81	3352	9.53	3429	10.26		
5516	2800	2855	5.35	2963	6.10	3065	6.85	3155	7.58	3240	8.31	3322	9.05	3401	9.80						
5910	3000	2997	6.12	3101	6.91	3200	7.71	3294	8.52	3378	9.30	3457	10.08								
6304	3200	3140	6.97	3241	7.80	3337	8.65	3429	9.50												
6698	3400	3285	7.90	3383	8.79																
7092	3600	3432	8.92																		

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3940	2000	3242	8.83																		
4334	2200	3332	9.64																		
4728	2400	3452	10.64																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8818

MAXIMUM CLASS OPERATING RPM

FAN TEMPERATURE

SIZE 8818	-20° to 150°F
CLASS I	2407 RPM
CLASS II (Steel Wheel Only)	3139 RPM
CLASS III	Consult Factory

Wheel Diameter	18.25 inches
Wheel Circumference	4.78 feet
Inlet Diameter/Area	18.56 inches dia./1.88 sq. ft.
Outlet Area	2.42 sq. ft.
Tip Speed	4.78 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1452	600	674	0.13	748	0.18	813	0.23	878	0.29												
1694	700	734	0.16	805	0.22	868	0.28	925	0.34	978	0.40	1035	0.48								
1936	800	797	0.20	864	0.26	925	0.33	981	0.40	1031	0.47	1079	0.54	1126	0.62						
2178	900	858	0.24	926	0.32	983	0.39	1037	0.47	1087	0.54	1134	0.62	1178	0.70	1261	0.87	1348	1.05		
2420	1000	922	0.30	988	0.38	1044	0.46	1095	0.54	1144	0.62	1190	0.71	1234	0.80	1313	0.97	1387	1.15	1467	1.36
2662	1100	986	0.36	1050	0.45	1107	0.54	1157	0.63	1203	0.72	1247	0.81	1290	0.90	1369	1.09	1441	1.28	1509	1.48
2904	1200	1052	0.43	1113	0.53	1169	0.62	1219	0.72	1264	0.82	1306	0.92	1348	1.01	1425	1.22	1497	1.42	1563	1.63
3146	1300	1119	0.51	1177	0.61	1231	0.72	1281	0.83	1326	0.93	1368	1.03	1407	1.14	1482	1.36	1553	1.58	1619	1.80
3388	1400	1187	0.60	1242	0.71	1294	0.83	1343	0.94	1389	1.06	1430	1.17	1468	1.28	1541	1.51	1610	1.74	1675	1.98
3630	1500	1255	0.70	1309	0.82	1359	0.94	1406	1.06	1450	1.19	1493	1.31	1531	1.43	1601	1.67	1668	1.92	1732	2.17
3872	1600	1324	0.82	1376	0.95	1424	1.07	1469	1.20	1513	1.33	1554	1.46	1594	1.60	1663	1.85	1728	2.11	1790	2.37
4114	1700	1395	0.95	1443	1.08	1490	1.22	1534	1.36	1576	1.49	1616	1.63	1655	1.77	1726	2.05	1789	2.32	1849	2.60
4356	1800	1467	1.10	1512	1.23	1556	1.38	1599	1.52	1640	1.67	1679	1.81	1717	1.96	1789	2.26	1851	2.54	1910	2.83
4598	1900	1539	1.27	1580	1.40	1624	1.55	1665	1.70	1705	1.86	1743	2.01	1780	2.16	1850	2.47	1915	2.78	1972	3.09
4840	2000	1611	1.45	1650	1.58	1692	1.74	1732	1.90	1770	2.06	1807	2.22	1843	2.38	1912	2.70	1976	3.04	2035	3.36
5324	2200	1757	1.87	1793	2.02	1829	2.17	1867	2.34	1903	2.52	1938	2.69	1972	2.87	2038	3.22	2100	3.58	2159	3.94
5808	2400	1904	2.37	1937	2.53	1970	2.69	2004	2.86	2038	3.05	2072	3.24	2104	3.43	2166	3.82	2226	4.20	2283	4.59
6292	2600	2052	2.95	2083	3.12	2113	3.30	2143	3.47	2175	3.67	2207	3.87	2238	4.08	2297	4.49	2354	4.91	2409	5.33
6776	2800	2200	3.63	2229	3.81	2258	4.00	2286	4.18	2314	4.37	2344	4.59	2373	4.81	2430	5.25	2485	5.70	2538	6.15
7260	3000	2349	4.40	2377	4.60	2404	4.80	2430	5.00	2456	5.20	2482	5.40	2510	5.64	2565	6.11	2617	6.59	2668	7.07
7744	3200	2499	5.29	2525	5.50	2550	5.71	2575	5.92	2600	6.13	2624	6.34	2648	6.57	2701	7.07	2751	7.57	2800	8.08
8228	3400	2648	6.29	2673	6.51	2697	6.73	2721	6.95	2744	7.18	2767	7.40	2790	7.63	2838	8.13	2887	8.67	2934	9.20
8712	3600	2798	7.40	2822	7.64	2845	7.88	2867	8.11	2890	8.35	2912	8.59	2933	8.83	2976	9.32	3023	9.88	3069	10.44
9196	3800	2949	8.65	2971	8.90	2993	9.15	3015	9.40	3036	9.65	3057	9.90	3078	10.15	3118	10.66				

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2904	1200	1626	1.85	1755	2.32																
3146	1300	1681	2.03	1795	2.50	1917	3.02														
3388	1400	1736	2.22	1850	2.71	1956	3.23	2069	3.80												
3630	1500	1793	2.43	1905	2.94	2008	3.48	2108	4.04	2214	4.65										
3872	1600	1850	2.64	1961	3.19	2063	3.75	2158	4.32	2252	4.92	2351	5.58								
4114	1700	1908	2.88	2017	3.45	2118	4.04	2212	4.63	2301	5.24	2390	5.88	2484	6.58	2573	7.29				
4356	1800	1966	3.13	2074	3.72	2175	4.34	2268	4.96	2356	5.60	2439	6.24	2522	6.92	2611	7.65	2697	8.40		
4598	1900	2027	3.39	2132	4.02	2231	4.66	2324	5.32	2411	5.97	2493	6.64	2572	7.32	2650	8.03	2735	8.80	2817	9.59
4840	2000	2089	3.68	2191	4.33	2289	4.99	2380	5.67	2467	6.37	2549	7.06	2627	7.76	2702	8.48	2774	9.22	2855	10.02
5324	2200	2215	4.31	2313	5.01	2406	5.73	2495	6.45	2580	7.20	2661	7.96	2738	8.72	2812	9.48	2882	10.25	2951	11.04
5808	2400	2338	4.99	2438	5.77	2528	6.54	2613	7.32	2695	8.11	2774	8.92	2851	9.74	2924	10.57	2994	11.40	3061	12.23
6292	2600	2462	5.75	2563	6.61	2653	7.45	2735	8.28	2814	9.13	2890	9.98	2965	10.85	3037	11.72	3106	12.62		
6776	2800	2589	6.60	2686	7.51	2778	8.44	2860	9.34	2937	10.23	3010	11.14	3082	12.06						
7260	3000	2717	7.55	2811	8.51	2901	9.50	2986	10.50	3061	11.45	3133	12.41								
7744	3200	2848	8.60	2939	9.62	3025	10.66	3108	11.71												
8228	3400	2980	9.75	3068	10.84																
8712	3600	3113	11.01																		

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4840	2000	2934	10.85																		
5324	2200	3017	11.84																		
5808	2400	3127	13.07																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8820

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

Wheel Diameter	20 inches
Wheel Circumference	5.24 feet
Inlet Diameter/Area	20.44 inches dia./2.28 sq. ft.
Outlet Area	2.89 sq. ft.
Tip Speed	5.24 x RPM ft./minute

SIZE 8820	-20° to 150°F
CLASS I	2196 RPM
CLASS II (Steel Wheel Only)	2865 RPM
CLASS III	Consult Factory

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1734	600	587	0.13	651	0.19	710	0.25	768	0.32	821	0.40										
2023	700	641	0.17	701	0.23	755	0.29	805	0.36	857	0.44	905	0.53	950	0.63						
2312	800	697	0.21	754	0.28	805	0.35	853	0.42	897	0.49	941	0.58	986	0.67	1069	0.89				
2601	900	754	0.26	809	0.33	857	0.41	903	0.49	946	0.57	987	0.65	1025	0.74	1104	0.95	1179	1.18		
2890	1000	813	0.31	865	0.40	912	0.48	955	0.56	996	0.65	1035	0.74	1073	0.83	1143	1.02	1215	1.26	1283	1.51
3179	1100	873	0.38	923	0.47	968	0.56	1009	0.65	1049	0.75	1086	0.84	1122	0.94	1191	1.14	1254	1.35	1320	1.60
3468	1200	935	0.46	981	0.55	1025	0.65	1065	0.75	1103	0.85	1139	0.95	1173	1.06	1240	1.27	1302	1.49	1360	1.72
3757	1300	997	0.55	1041	0.65	1083	0.75	1122	0.86	1159	0.97	1194	1.08	1227	1.19	1290	1.42	1351	1.65	1408	1.89
4046	1400	1059	0.64	1102	0.76	1142	0.87	1179	0.98	1215	1.10	1249	1.22	1282	1.33	1343	1.57	1401	1.82	1457	2.07
4335	1500	1123	0.76	1163	0.88	1202	1.00	1238	1.12	1273	1.24	1306	1.37	1337	1.49	1397	1.74	1453	2.00	1507	2.27
4624	1600	1187	0.88	1225	1.01	1262	1.14	1297	1.27	1331	1.40	1363	1.53	1394	1.67	1452	1.93	1507	2.20	1559	2.48
4913	1700	1251	1.02	1288	1.16	1324	1.30	1357	1.43	1390	1.57	1421	1.71	1451	1.85	1508	2.13	1562	2.42	1613	2.71
5202	1800	1316	1.18	1352	1.32	1385	1.47	1418	1.61	1449	1.76	1480	1.90	1509	2.05	1565	2.35	1617	2.65	1667	2.95
5491	1900	1381	1.35	1415	1.50	1448	1.66	1479	1.81	1510	1.96	1539	2.11	1567	2.27	1622	2.59	1673	2.90	1722	3.21
5780	2000	1447	1.54	1480	1.70	1511	1.86	1541	2.03	1571	2.18	1599	2.34	1627	2.51	1680	2.83	1730	3.17	1778	3.50
6358	2200	1579	1.98	1609	2.15	1638	2.33	1666	2.51	1694	2.69	1721	2.86	1747	3.04	1797	3.39	1845	3.75	1891	4.12
6936	2400	1712	2.50	1740	2.69	1767	2.88	1793	3.07	1819	3.27	1844	3.46	1869	3.65	1917	4.04	1963	4.42	2007	4.82
7514	2600	1845	3.11	1871	3.31	1897	3.52	1922	3.73	1946	3.94	1970	4.15	1993	4.36	2039	4.77	2083	5.19	2125	5.61
8092	2800	1979	3.81	2004	4.03	2028	4.25	2051	4.47	2074	4.70	2097	4.92	2119	5.15	2162	5.61	2204	6.05	2244	6.50
8670	3000	2113	4.62	2137	4.85	2159	5.09	2181	5.33	2203	5.56	2225	5.81	2246	6.05	2287	6.54	2327	7.02	2366	7.49
9248	3200	2248	5.54	2270	5.79	2292	6.04	2313	6.29	2333	6.54	2354	6.80	2374	7.06	2413	7.58	2451	8.10	2488	8.60
9826	3400	2383	6.57	2404	6.84	2424	7.10	2444	7.37	2464	7.64	2484	7.91	2503	8.18	2540	8.73	2576	9.28	2612	9.84
10404	3600	2519	7.74	2538	8.01	2558	8.29	2577	8.58	2596	8.86	2614	9.15	2632	9.43	2668	10.01	2703	10.59	2737	11.18
10982	3800	2655	9.03	2673	9.32	2692	9.62	2710	9.92	2728	10.22	2745	10.51	2763	10.82	2797	11.42	2831	12.04	2864	12.65

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3468	1200	1420	1.98	1536	2.59	1642	3.24														
3757	1300	1462	2.13	1572	2.71	1677	3.38	1775	4.08												
4046	1400	1511	2.32	1610	2.85	1713	3.53	1810	4.25	1901	5.01										
4335	1500	1560	2.53	1657	3.09	1750	3.69	1846	4.43	1936	5.20	2021	6.01								
4624	1600	1609	2.76	1706	3.34	1795	3.93	1882	4.61	1972	5.40	2057	6.23	2137	7.08						
4913	1700	1661	3.00	1755	3.60	1843	4.22	1925	4.87	2009	5.61	2093	6.45	2173	7.32	2249	8.23	2323	9.16		
5202	1800	1714	3.26	1805	3.89	1892	4.54	1973	5.20	2050	5.88	2129	6.68	2209	7.57	2285	8.50	2358	9.45	2428	10.42
5491	1900	1769	3.54	1857	4.19	1941	4.87	2022	5.55	2098	6.26	2170	6.98	2245	7.83	2321	8.77	2394	9.74	2464	10.73
5780	2000	1824	3.83	1910	4.51	1992	5.22	2071	5.93	2146	6.65	2217	7.40	2286	8.16	2358	9.06	2430	10.04	2500	11.05
6358	2200	1935	4.49	2019	5.22	2097	5.97	2171	6.74	2245	7.52	2315	8.31	2382	9.12	2446	9.94	2508	10.78	2573	11.73
6936	2400	2049	5.22	2130	6.01	2206	6.81	2278	7.63	2347	8.47	2414	9.32	2480	10.17	2543	11.04	2604	11.92	2663	12.82
7514	2600	2166	6.03	2244	6.91	2317	7.76	2387	8.63	2454	9.51	2518	10.42	2580	11.33	2642	12.25	2702	13.18	2760	14.12
8092	2800	2284	6.95	2359	7.87	2430	8.81	2498	9.73	2563	10.66	2626	11.61	2686	12.58	2744	13.57	2802	14.55	2859	15.54
8670	3000	2403	7.97	2476	8.95	2545	9.94	2611	10.95	2674	11.93	2735	12.93	2794	13.94	2851	14.98				
9248	3200	2525	9.11	2595	10.14	2662	11.19	2726	12.25	2787	13.32	2847	14.37								
9826	3400	2647	10.37	2715	11.45	2779	12.55	2842	13.67												
10404	3600	2771	11.76	2836	12.90																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5780	2000	2567	12.09	2695	14.24																
6358	2200	2639	12.80	2766	15.02																
6936	2400	2721	13.73	2839	15.84																
7514	2600	2817	15.08																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8822

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

SIZE 8822	-20° to 150°F
CLASS I	1974 RPM
CLASS II (Steel Wheel Only)	2575 RPM
CLASS III	Consult Factory

Wheel Diameter	22.25 inches
Wheel Circumference	5.83 feet
Inlet Diameter/Area	22.41 inches dia./2.74 sq. ft.
Outlet Area	3.58 sq. ft.
Tip Speed	5.83 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2148	600	528	0.16	585	0.23	638	0.31	690	0.40	738	0.50										
2506	700	576	0.21	630	0.28	679	0.36	724	0.44	770	0.55	814	0.66	854	0.78						
2864	800	627	0.26	678	0.34	724	0.43	767	0.52	807	0.61	846	0.71	887	0.84	961	1.10				
3222	900	679	0.32	727	0.41	771	0.50	812	0.60	851	0.70	887	0.81	922	0.91	993	1.17	1060	1.46		
3580	1000	732	0.39	778	0.49	820	0.59	859	0.70	895	0.81	931	0.92	965	1.03	1028	1.26	1092	1.55	1154	1.87
3938	1100	786	0.47	830	0.58	870	0.70	908	0.81	943	0.92	976	1.04	1009	1.16	1071	1.41	1128	1.67	1187	1.98
4296	1200	841	0.57	883	0.69	922	0.81	958	0.93	992	1.06	1024	1.18	1055	1.31	1115	1.58	1171	1.85	1223	2.13
4654	1300	896	0.68	937	0.80	974	0.94	1009	1.07	1042	1.20	1073	1.34	1103	1.47	1160	1.76	1215	2.04	1266	2.34
5012	1400	953	0.80	991	0.94	1027	1.08	1061	1.22	1093	1.37	1123	1.51	1153	1.65	1208	1.95	1260	2.25	1311	2.56
5370	1500	1010	0.94	1046	1.09	1081	1.24	1113	1.39	1145	1.54	1174	1.70	1203	1.85	1257	2.16	1307	2.48	1355	2.81
5728	1600	1068	1.09	1102	1.26	1135	1.41	1167	1.57	1197	1.73	1226	1.90	1253	2.06	1306	2.39	1355	2.73	1402	3.07
6086	1700	1126	1.27	1159	1.44	1191	1.61	1221	1.78	1250	1.95	1278	2.12	1305	2.29	1356	2.64	1404	2.99	1450	3.35
6444	1800	1184	1.46	1216	1.64	1246	1.82	1276	2.00	1304	2.18	1331	2.36	1357	2.54	1407	2.92	1454	3.28	1499	3.66
6802	1900	1243	1.68	1273	1.87	1302	2.06	1331	2.25	1358	2.43	1384	2.62	1410	2.81	1459	3.21	1505	3.59	1549	3.98
7160	2000	1302	1.91	1331	2.11	1359	2.31	1386	2.51	1413	2.71	1438	2.91	1463	3.11	1511	3.51	1556	3.93	1599	4.34
7876	2200	1420	2.46	1447	2.67	1474	2.89	1499	3.11	1524	3.33	1548	3.55	1571	3.77	1617	4.21	1660	4.65	1701	5.11
8592	2400	1540	3.10	1565	3.34	1589	3.57	1613	3.81	1636	4.05	1659	4.30	1681	4.53	1724	5.00	1766	5.48	1805	5.97
9308	2600	1660	3.85	1683	4.11	1706	4.36	1729	4.62	1751	4.88	1772	5.14	1793	5.41	1834	5.92	1873	6.43	1911	6.95
10024	2800	1780	4.73	1802	5.00	1824	5.27	1845	5.55	1866	5.83	1886	6.11	1906	6.39	1945	6.95	1982	7.50	2019	8.05
10740	3000	1901	5.73	1922	6.02	1942	6.31	1962	6.61	1982	6.90	2001	7.20	2020	7.50	2057	8.11	2093	8.70	2128	9.29
11456	3200	2023	6.87	2042	7.18	2062	7.49	2080	7.80	2099	8.12	2117	8.43	2135	8.75	2170	9.39	2205	10.05	2238	10.67
12172	3400	2144	8.16	2163	8.48	2181	8.81	2199	9.14	2217	9.48	2234	9.81	2251	10.15	2285	10.83	2318	11.51	2350	12.20
12888	3600	2266	9.60	2284	9.94	2301	10.29	2318	10.64	2335	10.99	2352	11.34	2368	11.70	2400	12.41	2432	13.14	2462	13.87
13604	3800	2388	11.20	2405	11.57	2421	11.93	2438	12.30	2454	12.67	2470	13.04	2485	13.42	2516	14.17	2546	14.93		

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4296	1200	1276	2.45	1381	3.20	1476	4.01														
4654	1300	1315	2.64	1413	3.36	1508	4.18	1595	5.06												
5012	1400	1358	2.88	1447	3.54	1540	4.37	1627	5.26	1709	6.20										
5370	1500	1402	3.14	1490	3.82	1573	4.56	1660	5.48	1741	6.44	1817	7.44								
5728	1600	1447	3.42	1534	4.13	1614	4.87	1693	5.70	1773	6.69	1849	7.71	1922	8.77						
6086	1700	1494	3.72	1578	4.47	1657	5.23	1731	6.03	1806	6.94	1882	7.99	1954	9.07	2022	10.19	2088	11.34		
6444	1800	1542	4.04	1623	4.82	1701	5.62	1774	6.44	1843	7.29	1915	8.28	1986	9.38	2055	10.52	2120	11.70	2183	12.91
6802	1900	1591	4.38	1670	5.20	1746	6.03	1818	6.88	1886	7.75	1951	8.65	2019	9.70	2087	10.86	2152	12.06	2215	13.29
7160	2000	1640	4.75	1718	5.59	1791	6.46	1862	7.34	1930	8.24	1994	9.17	2055	10.11	2120	11.22	2185	12.44	2248	13.69
7876	2200	1741	5.56	1816	6.47	1886	7.40	1953	8.36	2019	9.32	2082	10.30	2142	11.30	2200	12.32	2255	13.35	2313	14.52
8592	2400	1843	6.47	1916	7.45	1984	8.44	2049	9.46	2110	10.50	2171	11.55	2230	12.60	2287	13.68	2342	14.77	2395	15.89
9308	2600	1948	7.48	2018	8.56	2084	9.62	2147	10.69	2207	11.79	2265	12.91	2320	14.05	2376	15.18	2430	16.33	2482	17.50
10024	2800	2054	8.61	2122	9.76	2186	10.92	2247	12.06	2305	13.22	2361	14.39	2416	15.59	2468	16.81	2520	18.03	2571	19.26
10740	3000	2162	9.88	2227	11.09	2289	12.33	2348	13.57	2405	14.79	2460	16.02	2513	17.28	2564	18.56				
11456	3200	2271	11.30	2334	12.57	2394	13.87	2452	15.19	2507	16.51	2560	17.81								
12172	3400	2381	12.86	2442	14.20	2500	15.56	2556	16.95												
12888	3600	2492	14.59	2551	16.00																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7160	2000	2308	14.97	2423	17.64																
7876	2200	2373	15.85	2487	18.60																
8592	2400	2446	17.02	2553	19.62																
9308	2600	2533	18.68																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do **not include the effects of appurtenances in the airstream.**

PLENUM FANS

8800 SERIES

SIZE 8824

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

Wheel Diameter	24.50 inches
Wheel Circumference	6.41 feet
Inlet Diameter/Area	25.00 inches dia./3.41 sq. ft.
Outlet Area	4.34 sq. ft.
Tip Speed	6.41 x RPM ft./minute

SIZE 8824	-20° to 150°F
CLASS I	1793 RPM
CLASS II (Steel Wheel Only)	2339 RPM
CLASS III	Consult Factory

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2604	600	479	0.20	532	0.28	580	0.37	627	0.49	670	0.61										
3038	700	523	0.25	572	0.34	617	0.44	657	0.54	699	0.66	739	0.80	776	0.94						
3472	800	569	0.31	615	0.41	657	0.52	696	0.63	733	0.74	769	0.86	805	1.01	873	1.33				
3906	900	616	0.39	660	0.50	700	0.61	737	0.73	772	0.85	806	0.98	837	1.10	902	1.42	963	1.77		
4340	1000	664	0.47	706	0.60	745	0.72	780	0.85	813	0.98	846	1.11	876	1.25	933	1.53	992	1.88	1048	2.27
4774	1100	713	0.57	754	0.71	790	0.84	824	0.98	856	1.12	887	1.27	917	1.41	972	1.71	1024	2.02	1077	2.40
5208	1200	763	0.69	802	0.83	837	0.98	870	1.13	901	1.28	930	1.43	958	1.59	1013	1.91	1063	2.24	1111	2.58
5642	1300	814	0.82	850	0.97	884	1.13	916	1.30	946	1.46	975	1.62	1002	1.79	1054	2.13	1103	2.47	1150	2.83
6076	1400	865	0.97	900	1.14	933	1.31	963	1.48	992	1.65	1020	1.83	1047	2.00	1097	2.36	1144	2.73	1190	3.11
6510	1500	917	1.14	950	1.32	981	1.50	1011	1.68	1039	1.87	1066	2.06	1092	2.24	1141	2.62	1187	3.01	1231	3.41
6944	1600	969	1.33	1001	1.52	1031	1.71	1060	1.90	1087	2.10	1113	2.30	1138	2.50	1186	2.90	1231	3.31	1273	3.72
7378	1700	1022	1.54	1052	1.74	1081	1.95	1109	2.15	1135	2.36	1161	2.57	1185	2.78	1232	3.20	1275	3.63	1317	4.07
7812	1800	1075	1.77	1104	1.99	1132	2.21	1158	2.42	1184	2.64	1209	2.86	1232	3.08	1278	3.53	1321	3.98	1361	4.43
8246	1900	1128	2.03	1156	2.26	1183	2.49	1208	2.72	1233	2.95	1257	3.18	1280	3.41	1325	3.89	1366	4.36	1406	4.83
8680	2000	1182	2.32	1209	2.56	1234	2.80	1259	3.05	1283	3.28	1306	3.52	1329	3.77	1372	4.26	1413	4.76	1452	5.26
9548	2200	1290	2.98	1314	3.24	1338	3.50	1361	3.77	1384	4.04	1406	4.30	1427	4.56	1468	5.10	1507	5.64	1545	6.20
10416	2400	1398	3.76	1421	4.04	1443	4.33	1465	4.62	1486	4.91	1507	5.21	1527	5.49	1566	6.06	1603	6.65	1639	7.24
11284	2600	1507	4.67	1529	4.98	1549	5.29	1570	5.60	1590	5.92	1609	6.23	1628	6.56	1665	7.17	1701	7.79	1735	8.43
12152	2800	1617	5.73	1637	6.06	1656	6.39	1675	6.73	1694	7.06	1713	7.40	1731	7.75	1766	8.43	1800	9.09	1833	9.76
13020	3000	1726	6.94	1745	7.30	1764	7.65	1782	8.01	1800	8.37	1817	8.73	1834	9.09	1868	9.83	1900	10.55	1932	11.26
13888	3200	1837	8.33	1854	8.70	1872	9.08	1889	9.45	1906	9.84	1923	10.22	1939	10.61	1971	11.39	2002	12.18	2032	12.93
14756	3400	1947	9.88	1964	10.28	1980	10.68	1997	11.08	2013	11.48	2029	11.89	2044	12.30	2075	13.12	2105	13.96	2134	14.79
15624	3600	2058	11.63	2074	12.05	2089	12.47	2105	12.90	2120	13.32	2135	13.75	2150	14.18	2180	15.05	2208	15.92	2236	16.81
16492	3800	2169	13.58	2184	14.02	2199	14.46	2214	14.91	2228	15.36	2243	15.81	2257	16.26	2285	17.17	2312	18.09	2339	19.02

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5208	1200	1159	2.97	1254	3.88	1340	4.86														
5642	1300	1194	3.20	1283	4.07	1369	5.07	1449	6.13												
6076	1400	1234	3.49	1314	4.29	1399	5.30	1478	6.38	1552	7.52										
6510	1500	1274	3.81	1353	4.64	1429	5.53	1507	6.64	1581	7.81	1650	9.02								
6944	1600	1314	4.15	1393	5.01	1466	5.91	1537	6.92	1610	8.11	1679	9.35	1745	10.63						
7378	1700	1356	4.51	1433	5.41	1505	6.35	1572	7.31	1640	8.42	1709	9.68	1774	10.99	1837	12.35	1896	13.75		
7812	1800	1400	4.90	1474	5.85	1545	6.81	1611	7.81	1674	8.83	1739	10.03	1804	11.37	1866	12.75	1925	14.18	1983	15.65
8246	1900	1444	5.31	1516	6.30	1585	7.31	1651	8.34	1713	9.40	1772	10.48	1833	11.76	1895	13.17	1955	14.62	2012	16.11
8680	2000	1489	5.76	1560	6.78	1626	7.84	1691	8.90	1752	9.99	1811	11.11	1867	12.26	1925	13.60	1984	15.08	2041	16.60
9548	2200	1581	6.74	1649	7.84	1713	8.97	1773	10.13	1833	11.29	1890	12.48	1945	13.69	1998	14.93	2048	16.19	2101	17.61
10416	2400	1674	7.84	1740	9.03	1802	10.24	1861	11.47	1916	12.73	1972	14.00	2025	15.28	2077	16.58	2127	17.91	2175	19.26
11284	2600	1769	9.07	1832	10.38	1892	11.66	1950	12.96	2004	14.29	2056	15.65	2107	17.03	2158	18.40	2207	19.80	2254	21.21
12152	2800	1865	10.44	1927	11.83	1985	13.24	2040	14.62	2093	16.02	2144	17.45	2194	18.90	2241	20.38	2288	21.86	2335	23.34
13020	3000	1963	11.98	2022	13.45	2079	14.94	2133	16.45	2184	17.92	2234	19.42	2282	20.95	2329	22.50				
13888	3200	2062	13.69	2119	15.24	2174	16.81	2226	18.41	2276	20.01	2325	21.59								
14756	3400	2162	15.59	2217	17.21	2270	18.87	2321	20.55												
15624	3600	2263	17.68	2317	19.39																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8680	2000	2096	18.15	2200	21.38																
9548	2200	2155	19.22	2259	22.55																
10416	2400	2222	20.63	2318	23.78																
11284	2600	2300	22.65																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8827

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

SIZE 8827	-20° to 150°F
CLASS I	1627 RPM
CLASS II (Steel Wheel Only)	2122 RPM
CLASS III	Consult Factory

Wheel Diameter	27 inches
Wheel Circumference	7.07 feet
Inlet Diameter/Area	27.73 inches dia./4.19 sq. ft.
Outlet Area	5.27 sq. ft.
Tip Speed	7.07 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3162	600	422	0.22	468	0.31	512	0.41	554	0.51												
3689	700	460	0.27	504	0.38	543	0.48	581	0.60	618	0.71	653	0.83								
4216	800	500	0.34	541	0.45	579	0.57	614	0.69	646	0.82	679	0.95	712	1.08	771	1.35				
4743	900	541	0.42	580	0.54	616	0.67	649	0.80	681	0.94	710	1.09	738	1.23	797	1.52	850	1.83		
5270	1000	581	0.51	621	0.65	655	0.79	686	0.93	717	1.08	745	1.23	772	1.39	824	1.71	877	2.03	926	2.37
5797	1100	621	0.61	661	0.77	695	0.92	725	1.07	754	1.23	781	1.39	808	1.56	857	1.90	904	2.26	952	2.61
6324	1200	663	0.73	701	0.90	735	1.07	765	1.23	792	1.40	819	1.57	844	1.75	892	2.11	937	2.49	979	2.88
6851	1300	705	0.86	742	1.05	775	1.23	805	1.42	832	1.59	857	1.77	882	1.96	928	2.34	972	2.74	1013	3.15
7378	1400	749	1.02	783	1.21	815	1.41	846	1.62	872	1.81	897	2.00	920	2.19	965	2.59	1008	3.01	1049	3.44
7905	1500	793	1.19	825	1.40	856	1.61	885	1.82	913	2.04	937	2.24	960	2.45	1004	2.87	1045	3.30	1084	3.75
8432	1600	838	1.38	867	1.60	897	1.82	926	2.05	953	2.29	978	2.51	1000	2.73	1043	3.17	1083	3.62	1121	4.09
8959	1700	883	1.60	911	1.83	939	2.07	966	2.31	993	2.55	1018	2.80	1041	3.04	1082	3.50	1122	3.97	1159	4.46
9486	1800	929	1.84	955	2.08	981	2.33	1008	2.58	1033	2.84	1058	3.10	1081	3.36	1123	3.86	1161	4.35	1197	4.85
10013	1900	975	2.11	1000	2.36	1024	2.62	1049	2.88	1074	3.15	1098	3.42	1121	3.70	1163	4.24	1201	4.76	1237	5.28
10540	2000	1021	2.41	1045	2.67	1068	2.94	1092	3.21	1116	3.49	1139	3.78	1161	4.06	1204	4.65	1241	5.20	1276	5.74
11594	2200	1113	3.08	1136	3.37	1157	3.66	1178	3.96	1200	4.26	1222	4.57	1243	4.88	1284	5.51	1322	6.16	1357	6.76
12648	2400	1206	3.88	1227	4.20	1247	4.51	1267	4.83	1286	5.16	1306	5.49	1326	5.82	1365	6.50	1402	7.19	1438	7.89
13702	2600	1300	4.82	1320	5.16	1338	5.50	1357	5.84	1375	6.19	1392	6.54	1411	6.90	1448	7.62	1483	8.36	1517	9.11
14756	2800	1394	5.91	1413	6.27	1430	6.63	1448	7.00	1465	7.37	1481	7.75	1497	8.13	1532	8.90	1566	9.68	1599	10.48
15810	3000	1489	7.15	1506	7.54	1523	7.93	1539	8.32	1555	8.72	1571	9.11	1586	9.52	1617	10.33	1650	11.16	1681	12.00
16864	3200	1584	8.57	1600	8.98	1616	9.39	1631	9.81	1646	10.23	1661	10.65	1676	11.08	1705	11.94	1734	12.81	1765	13.70
17918	3400	1679	10.16	1694	10.60	1709	11.04	1724	11.48	1738	11.92	1753	12.37	1767	12.82	1794	13.73	1821	14.65	1849	15.58
18972	3600	1774	11.95	1788	12.41	1803	12.88	1817	13.34	1831	13.81	1844	14.28	1858	14.76	1884	15.71	1910	16.68	1935	17.65
20026	3800	1869	13.95	1883	14.43	1897	14.92	1910	15.41	1923	15.90	1936	16.40	1949	16.90	1975	17.90	1999	18.91	2023	19.94

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6324	1200	1025	3.26	1108	4.06																
6851	1300	1052	3.57	1134	4.41	1210	5.27														
7378	1400	1087	3.88	1161	4.78	1236	5.69	1306	6.63												
7905	1500	1122	4.21	1192	5.16	1263	6.13	1332	7.11	1397	8.12										
8432	1600	1158	4.57	1227	5.56	1291	6.59	1359	7.62	1423	8.66	1484	9.74	1541	10.84						
8959	1700	1195	4.95	1263	5.98	1326	7.05	1386	8.15	1450	9.24	1510	10.36	1568	11.50	1622	12.66				
9486	1800	1232	5.37	1299	6.44	1361	7.54	1419	8.69	1477	9.85	1537	11.01	1594	12.19	1649	13.39	1701	14.61		
10013	1900	1271	5.82	1335	6.92	1397	8.06	1454	9.25	1509	10.46	1564	11.69	1621	12.91	1675	14.16	1727	15.42	1777	16.71
10540	2000	1310	6.30	1373	7.44	1433	8.62	1490	9.84	1544	11.09	1595	12.38	1648	13.67	1702	14.96	1754	16.26	1804	17.59
11594	2200	1389	7.36	1450	8.58	1507	9.83	1562	11.13	1615	12.46	1665	13.82	1713	15.22	1760	16.64	1808	18.06	1857	19.47
12648	2400	1470	8.57	1529	9.87	1585	11.20	1637	12.57	1688	13.98	1737	15.42	1784	16.88	1830	18.38	1874	19.91	1916	21.46
13702	2600	1550	9.87	1610	11.32	1663	12.74	1715	14.18	1763	15.66	1810	17.17	1857	18.72	1901	20.29	1944	21.89	1986	23.52
14756	2800	1631	11.28	1691	12.93	1744	14.44	1793	15.97	1841	17.53	1887	19.12	1931	20.73	1974	22.38	2016	24.06	2057	25.76
15810	3000	1712	12.85	1771	14.59	1825	16.33	1874	17.95	1920	19.59	1964	21.25	2007	22.95	2049	24.66	2090	26.41		
16864	3200	1794	14.60	1851	16.42	1905	18.29	1955	20.12	2000	21.84	2044	23.59	2086	25.36						
17918	3400	1878	16.52	1933	18.44	1985	20.40	2035	22.39	2081	24.31										
18972	3600	1962	18.64	2015	20.66	2066	22.71	2115	24.79												
20026	3800	2047	20.97	2099	23.08																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10540	2000	1852	18.93																		
11594	2200	1905	20.89	1996	23.81	2082	26.79														
12648	2400	1959	23.02	2049	26.09																
13702	2600	2026	25.17	2104	28.55																
14756	2800	2097	27.49																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8830

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

Wheel Diameter	30 inches
Wheel Circumference	7.85 feet
Inlet Diameter/Area	30.56 inches dia./5.09 sq. ft.
Outlet Area	6.51 sq. ft.
Tip Speed	7.85 x RPM ft./minute

SIZE 8830	-20° to 150°F
CLASS I	1464 RPM
CLASS II (Steel Wheel Only)	1910 RPM
CLASS III	Consult Factory

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3906	600	380	0.27	422	0.38	461	0.50	499	0.63												
4557	700	414	0.34	454	0.46	489	0.60	523	0.74	556	0.88	588	1.02								
5208	800	450	0.42	487	0.56	521	0.71	552	0.86	581	1.02	612	1.18	640	1.34	694	1.67				
5859	900	487	0.52	523	0.67	555	0.83	585	0.99	613	1.16	639	1.34	665	1.52	717	1.88	766	2.26		
6510	1000	523	0.63	559	0.80	590	0.97	618	1.15	645	1.33	671	1.52	695	1.71	742	2.11	789	2.51	833	2.92
7161	1100	560	0.75	595	0.95	625	1.14	653	1.33	679	1.52	703	1.72	727	1.92	771	2.35	814	2.79	857	3.23
7812	1200	597	0.90	631	1.11	662	1.32	688	1.52	713	1.73	737	1.94	760	2.16	803	2.61	843	3.07	882	3.55
8463	1300	635	1.07	668	1.29	698	1.52	725	1.75	749	1.97	772	2.19	794	2.42	836	2.89	875	3.38	912	3.89
9114	1400	674	1.26	705	1.50	734	1.74	761	2.00	785	2.23	807	2.47	829	2.71	869	3.20	908	3.72	944	4.24
9765	1500	714	1.47	743	1.72	771	1.99	797	2.25	822	2.52	843	2.77	864	3.03	904	3.54	941	4.08	976	4.63
10416	1600	755	1.71	781	1.98	808	2.26	833	2.54	858	2.83	880	3.11	900	3.37	939	3.92	975	4.48	1009	5.05
11067	1700	795	1.98	820	2.26	845	2.55	870	2.85	894	3.15	916	3.46	937	3.76	975	4.32	1010	4.91	1043	5.51
11718	1800	836	2.28	860	2.58	883	2.88	907	3.19	930	3.51	952	3.83	973	4.16	1011	4.77	1045	5.38	1078	6.00
12369	1900	878	2.61	900	2.92	922	3.24	945	3.57	967	3.90	989	4.23	1009	4.57	1047	5.25	1081	5.88	1113	6.53
13020	2000	919	2.98	941	3.30	961	3.63	983	3.97	1004	4.32	1025	4.67	1045	5.02	1084	5.75	1117	6.42	1149	7.10
14322	2200	1002	3.81	1023	4.17	1042	4.53	1061	4.90	1080	5.27	1100	5.65	1119	6.03	1156	6.81	1190	7.61	1222	8.36
15624	2400	1086	4.80	1105	5.19	1123	5.58	1141	5.98	1158	6.38	1176	6.78	1194	7.20	1229	8.03	1262	8.89	1294	9.75
16926	2600	1171	5.96	1188	6.38	1205	6.80	1222	7.22	1238	7.65	1254	8.09	1270	8.53	1304	9.42	1336	10.33	1366	11.26
18228	2800	1256	7.30	1272	7.75	1288	8.20	1304	8.66	1319	9.12	1334	9.58	1348	10.05	1379	11.00	1410	11.97	1440	12.95
19530	3000	1341	8.84	1356	9.32	1371	9.80	1386	10.29	1400	10.78	1415	11.27	1428	11.76	1456	12.77	1485	13.80	1514	14.83
20832	3200	1426	10.59	1441	11.10	1455	11.61	1469	12.13	1483	12.65	1496	13.17	1509	13.69	1535	14.76	1562	15.84	1589	16.93
22134	3400	1512	12.57	1525	13.11	1539	13.65	1552	14.19	1565	14.74	1578	15.29	1591	15.85	1616	16.97	1640	18.10	1665	19.26
23436	3600	1597	14.78	1610	15.35	1623	15.92	1636	16.50	1648	17.08	1661	17.66	1673	18.24	1697	19.42	1720	20.62	1742	21.82
24738	3800	1683	17.25	1696	17.85	1708	18.45	1720	19.06	1732	19.66	1744	20.28	1755	20.89	1778	22.13	1800	23.38	1822	24.65

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7812	1200	922	4.03	997	5.01																
8463	1300	947	4.41	1021	5.44	1089	6.52														
9114	1400	978	4.79	1045	5.90	1113	7.03	1175	8.19												
9765	1500	1010	5.20	1073	6.38	1137	7.57	1199	8.78	1257	10.02										
10416	1600	1043	5.64	1105	6.87	1162	8.14	1223	9.41	1281	10.70	1336	12.03	1387	13.39						
11067	1700	1075	6.12	1137	7.39	1194	8.71	1248	10.07	1305	11.42	1359	12.79	1411	14.20	1460	15.64				
11718	1800	1109	6.63	1169	7.95	1225	9.32	1278	10.73	1329	12.17	1383	13.60	1435	15.06	1484	16.54	1531	18.05		
12369	1900	1144	7.19	1202	8.55	1258	9.96	1309	11.42	1358	12.93	1408	14.44	1459	15.95	1508	17.49	1555	19.05	1600	20.64
13020	2000	1179	7.78	1236	9.19	1290	10.65	1341	12.16	1390	13.71	1436	15.30	1483	16.89	1532	18.48	1579	20.09	1623	21.73
14322	2200	1251	9.09	1306	10.60	1357	12.15	1407	13.75	1454	15.39	1499	17.08	1543	18.80	1584	20.55	1627	22.31	1672	24.05
15624	2400	1324	10.59	1377	12.20	1427	13.85	1474	15.54	1520	17.27	1564	19.05	1606	20.86	1647	22.71	1687	24.59	1725	26.51
16926	2600	1396	12.20	1449	13.99	1498	15.74	1544	17.53	1588	19.35	1630	21.22	1671	23.13	1712	25.07	1750	27.05	1788	29.06
18228	2800	1468	13.94	1523	15.97	1570	17.85	1615	19.74	1657	21.66	1699	23.62	1738	25.62	1777	27.65	1815	29.72	1852	31.82
19530	3000	1541	15.89	1594	18.03	1643	20.19	1687	22.18	1729	24.20	1769	26.26	1807	28.35	1845	30.48	1881	32.63		
20832	3200	1616	18.04	1667	20.30	1715	22.60	1760	24.87	1801	26.99	1840	29.15	1878	31.34						
22134	3400	1691	20.43	1740	22.80	1787	25.21	1833	27.67	1874	30.04										
23436	3600	1767	23.05	1815	25.53	1860	28.06	1904	30.64												
24738	3800	1843	25.92	1890	28.52																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13020	2000	1667	23.39																		
14322	2200	1715	25.81	1797	29.41	1874	33.10														
15624	2400	1763	28.43	1845	32.24																
16926	2600	1824	31.10	1894	35.27																
18228	2800	1888	33.96																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see “Fan Starting Requirements,” page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

SIZE 8833

SIZE 8833	-20° to 150°F
CLASS I	1331 RPM
CLASS II (Steel Wheel Only)	1736 RPM
CLASS III	Consult Factory

Wheel Diameter	33 inches
Wheel Circumference	8.64 feet
Inlet Diameter/Area	33.81 inches dia./6.23 sq. ft.
Outlet Area	7.87 sq. ft.
Tip Speed	8.64 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4722	600	345	0.33	383	0.46	419	0.61	453	0.76												
5509	700	376	0.41	412	0.56	445	0.72	475	0.89	506	1.06	534	1.24								
6296	800	409	0.51	443	0.68	474	0.85	502	1.04	528	1.23	556	1.42	582	1.62	631	2.02				
7083	900	442	0.63	475	0.81	504	1.00	531	1.20	557	1.41	581	1.62	604	1.84	652	2.27	696	2.73		
7870	1000	475	0.76	508	0.97	536	1.18	562	1.39	586	1.61	609	1.84	632	2.07	674	2.55	717	3.04	757	3.53
8657	1100	508	0.91	541	1.15	568	1.37	593	1.60	617	1.84	639	2.08	661	2.33	701	2.84	739	3.37	779	3.90
9444	1200	542	1.09	573	1.34	601	1.60	625	1.84	648	2.09	670	2.35	690	2.61	730	3.15	766	3.72	801	4.30
10231	1300	577	1.29	607	1.56	634	1.84	658	2.11	680	2.38	701	2.65	721	2.92	759	3.49	795	4.09	829	4.70
11018	1400	612	1.52	640	1.81	667	2.11	692	2.41	713	2.70	734	2.98	753	3.27	790	3.87	825	4.49	858	5.13
11805	1500	649	1.78	675	2.08	700	2.40	724	2.72	747	3.05	766	3.35	785	3.66	821	4.28	855	4.93	887	5.60
12592	1600	686	2.07	709	2.39	734	2.72	757	3.07	779	3.41	800	3.75	818	4.08	853	4.73	886	5.41	917	6.10
13379	1700	723	2.39	745	2.73	768	3.08	791	3.44	812	3.81	832	4.18	851	4.54	885	5.22	918	5.93	948	6.65
14166	1800	760	2.75	781	3.11	803	3.48	824	3.85	845	4.24	865	4.63	884	5.02	918	5.76	950	6.49	980	7.25
14953	1900	797	3.15	818	3.53	837	3.91	858	4.31	879	4.71	898	5.11	917	5.52	952	6.34	982	7.10	1012	7.89
15740	2000	835	3.59	855	3.99	873	4.39	893	4.80	913	5.22	931	5.64	950	6.07	985	6.94	1015	7.76	1044	8.57
17314	2200	911	4.60	929	5.03	946	5.47	963	5.91	981	6.36	999	6.82	1017	7.28	1050	8.23	1082	9.19	1110	10.10
18888	2400	987	5.80	1004	6.26	1020	6.74	1036	7.22	1052	7.70	1068	8.19	1085	8.69	1117	9.70	1147	10.73	1176	11.78
20462	2600	1064	7.20	1079	7.70	1095	8.21	1110	8.72	1124	9.24	1139	9.77	1154	10.30	1184	11.38	1213	12.48	1241	13.60
22036	2800	1141	8.82	1155	9.36	1170	9.90	1184	10.45	1198	11.01	1212	11.57	1225	12.13	1253	13.28	1281	14.45	1308	15.64
23610	3000	1218	10.67	1232	11.25	1246	11.83	1259	12.42	1272	13.01	1285	13.60	1298	14.21	1322	15.42	1349	16.66	1375	17.92
25184	3200	1295	12.79	1309	13.40	1322	14.02	1334	14.64	1347	15.27	1359	15.90	1371	16.53	1395	17.82	1419	19.12	1444	20.45
26758	3400	1373	15.17	1386	15.82	1398	16.47	1410	17.13	1422	17.80	1434	18.46	1445	19.14	1468	20.49	1490	21.86	1513	23.26
28332	3600	1451	17.84	1463	18.53	1474	19.22	1486	19.91	1497	20.61	1508	21.32	1520	22.03	1541	23.45	1562	24.89	1583	26.35
29906	3800	1529	20.82	1540	21.54	1551	22.27	1562	23.00	1573	23.74	1584	24.48	1594	25.22	1615	26.72	1635	28.23	1655	29.76

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9444	1200	838	4.87	906	6.06																
10231	1300	861	5.33	928	6.58	990	7.88														
11018	1400	889	5.79	950	7.14	1011	8.49	1068	9.90												
11805	1500	918	6.29	975	7.71	1033	9.15	1090	10.61	1143	12.12										
12592	1600	947	6.82	1004	8.30	1056	9.84	1112	11.37	1164	12.94	1214	14.54	1261	16.18						
13379	1700	977	7.40	1033	8.93	1085	10.53	1134	12.18	1186	13.80	1235	15.47	1282	17.17	1327	18.90				
14166	1800	1008	8.02	1063	9.61	1113	11.26	1161	12.97	1208	14.71	1257	16.44	1304	18.20	1349	20.00	1391	21.82		
14953	1900	1039	8.69	1092	10.33	1143	12.04	1190	13.81	1234	15.63	1279	17.46	1326	19.28	1370	21.14	1413	23.03	1454	24.95
15740	2000	1071	9.40	1123	11.10	1172	12.87	1219	14.69	1263	16.57	1305	18.49	1348	20.42	1392	22.33	1435	24.28	1475	26.27
17314	2200	1136	10.99	1186	12.81	1233	14.68	1278	16.62	1321	18.61	1362	20.64	1402	22.72	1440	24.85	1479	26.97	1519	29.07
18888	2400	1203	12.79	1251	14.74	1296	16.73	1339	18.77	1381	20.87	1421	23.02	1460	25.21	1497	27.45	1533	29.73	1567	32.04
20462	2600	1268	14.74	1317	16.90	1361	19.02	1403	21.18	1443	23.39	1481	25.64	1519	27.95	1555	30.30	1590	32.69	1625	35.12
22036	2800	1334	16.84	1383	19.30	1426	21.56	1467	23.85	1506	26.17	1543	28.54	1579	30.95	1615	33.42	1649	35.92	1683	38.46
23610	3000	1400	19.19	1448	21.78	1493	24.39	1533	26.79	1571	29.24	1607	31.73	1642	34.26	1676	36.83	1709	39.44		
25184	3200	1468	21.79	1514	24.52	1558	27.31	1599	30.04	1636	32.61	1672	35.22	1706	37.87						
26758	3400	1536	24.67	1581	27.53	1624	30.46	1665	33.43	1703	36.29										
28332	3600	1605	27.83	1649	30.84	1690	33.90	1730	37.01												
29906	3800	1675	31.30	1717	34.45																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15740	2000	1515	28.28																		
17314	2200	1558	31.20	1633	35.55	1703	40.01														
18888	2400	1603	34.37	1676	38.97																
20462	2600	1658	37.59	1721	42.63																
22036	2800	1716	41.04																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8837

Wheel Diameter	36.50 inches
Wheel Circumference	9.56 feet
Inlet Diameter/Area	37.03 inches dia./7.48 sq. ft.
Outlet Area	9.67 sq. ft.
Tip Speed	9.56 x RPM ft./minute

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

SIZE 8837	-20° to 150°F
CLASS I	1203 RPM
CLASS II (Steel Wheel Only)	1570 RPM
CLASS III	Consult Factory

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5802	600	310	0.40	346	0.57	383	0.76	418	0.96												
6769	700	337	0.49	371	0.69	401	0.89	433	1.11	464	1.34	493	1.58								
7736	800	366	0.60	397	0.82	426	1.05	452	1.28	479	1.52	508	1.78	534	2.04						
8703	900	395	0.73	425	0.97	452	1.22	478	1.48	502	1.73	524	2.00	549	2.29	598	2.87	645	3.50		
9670	1000	425	0.87	454	1.14	480	1.41	504	1.69	527	1.98	549	2.26	569	2.55	613	3.17	657	3.83	698	4.50
10637	1100	456	1.04	483	1.33	508	1.63	531	1.93	553	2.24	574	2.55	594	2.86	632	3.51	672	4.19	713	4.90
11604	1200	488	1.23	514	1.54	537	1.87	560	2.19	581	2.52	601	2.86	620	3.20	657	3.88	691	4.59	728	5.33
12571	1300	520	1.44	544	1.78	567	2.13	589	2.48	609	2.83	628	3.19	647	3.55	682	4.29	716	5.03	747	5.80
13538	1400	553	1.69	575	2.05	597	2.42	618	2.81	638	3.18	657	3.55	675	3.94	709	4.73	741	5.51	772	6.32
14505	1500	586	1.96	607	2.35	628	2.74	648	3.14	667	3.56	685	3.95	703	4.35	736	5.18	767	6.04	798	6.88
15472	1600	620	2.28	639	2.68	659	3.09	678	3.52	697	3.95	715	4.39	732	4.81	764	5.68	794	6.57	824	7.48
16439	1700	654	2.62	672	3.04	691	3.48	709	3.92	727	4.38	744	4.85	761	5.31	792	6.21	822	7.14	850	8.10
17406	1800	688	3.01	705	3.45	722	3.90	740	4.37	758	4.85	774	5.33	790	5.83	821	6.79	850	7.76	878	8.76
18373	1900	722	3.43	739	3.89	755	4.37	772	4.86	789	5.36	805	5.86	820	6.38	850	7.42	879	8.42	906	9.45
19340	2000	757	3.89	773	4.38	788	4.88	804	5.39	820	5.91	836	6.43	851	6.97	880	8.07	908	9.13	934	10.20
21274	2200	826	4.96	841	5.49	855	6.03	869	6.58	883	7.14	898	7.71	913	8.29	940	9.47	967	10.68	992	11.85
23208	2400	896	6.22	910	6.80	923	7.38	936	7.98	949	8.58	962	9.19	975	9.81	1002	11.06	1027	12.35	1051	13.67
25142	2600	966	7.70	979	8.32	992	8.95	1004	9.58	1016	10.23	1028	10.88	1039	11.54	1064	12.88	1088	14.25	1112	15.65
27076	2800	1037	9.41	1049	10.07	1060	10.74	1072	11.42	1083	12.11	1095	12.80	1105	13.50	1128	14.93	1151	16.38	1173	17.86
29010	3000	1107	11.36	1119	12.07	1130	12.78	1141	13.51	1151	14.24	1162	14.98	1172	15.72	1193	17.23	1214	18.76	1235	20.32
30944	3200	1178	13.58	1189	14.33	1199	15.09	1210	15.86	1220	16.63	1230	17.42	1240	18.20	1259	19.80	1278	21.42	1298	23.06
32878	3400	1249	16.08	1259	16.88	1269	17.69	1279	18.50	1289	19.32	1298	20.14	1308	20.97	1326	22.65	1344	24.35	1362	26.08
34812	3600	1320	18.89	1330	19.73	1339	20.58	1349	21.44	1358	22.30	1367	23.17	1376	24.04	1394	25.81	1411	27.59	1428	29.41
36746	3800	1392	22.01	1401	22.90	1410	23.79	1419	24.70	1427	25.60	1436	26.51	1445	27.43	1462	29.28	1478	31.16	1494	33.05

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11604	1200	766	6.11	835	7.71																
12571	1300	781	6.60	850	8.28	913	10.04														
13538	1400	802	7.14	865	8.89	927	10.72	986	12.63												
14505	1500	827	7.74	880	9.53	943	11.44	1000	13.41	1054	15.46										
15472	1600	852	8.38	905	10.24	958	12.19	1015	14.24	1068	16.35	1119	18.52								
16439	1700	878	9.07	930	10.99	978	13.00	1030	15.11	1084	17.30	1134	19.54	1181	21.85						
17406	1800	904	9.78	955	11.80	1003	13.88	1048	16.02	1099	18.28	1149	20.61	1196	22.98	1242	25.41	1290	28.02		
18373	1900	932	10.51	981	12.67	1028	14.81	1072	17.03	1114	19.31	1164	21.71	1211	24.17	1256	26.67	1300	29.23	1343	31.88
19340	2000	960	11.30	1008	13.55	1054	15.80	1097	18.09	1139	20.44	1179	22.86	1227	25.39	1272	27.98	1315	30.61	1356	33.28
21274	2200	1017	13.02	1063	15.42	1106	17.91	1148	20.39	1189	22.88	1227	25.43	1264	28.04	1302	30.73	1345	33.52	1386	36.35
23208	2400	1075	14.97	1120	17.53	1162	20.16	1201	22.87	1240	25.59	1278	28.28	1314	31.03	1349	33.83	1382	36.69	1417	39.62
25142	2600	1134	17.07	1177	19.87	1218	22.65	1257	25.51	1294	28.44	1329	31.41	1365	34.30	1399	37.25	1432	40.25	1464	43.29
27076	2800	1195	19.36	1236	22.45	1276	25.42	1313	28.42	1349	31.49	1384	34.63	1417	37.83	1450	40.97	1483	44.11	1514	47.30
29010	3000	1256	21.91	1296	25.15	1334	28.47	1371	31.62	1406	34.84	1440	38.12	1472	41.47	1504	44.88	1535	48.31	1565	51.64
30944	3200	1318	24.73	1357	28.13	1394	31.62	1429	35.12	1463	38.49	1496	41.93	1528	45.42	1559	48.97				
32878	3400	1381	27.83	1419	31.40	1454	35.05	1488	38.78	1522	42.48	1554	46.06								
34812	3600	1445	31.24	1481	34.97	1516	38.78	1549	42.67												
36746	3800	1510	34.97	1544	38.87																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
19340	2000	1396	36.01																		
21274	2200	1426	39.22	1502	45.11																
23208	2400	1456	42.65	1532	48.84																
25142	2600	1495	46.39	1562	52.81																
27076	2800	1545	50.54																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8840

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

SIZE 8840	-20° to 150°F
CLASS I	1091 RPM
CLASS II (Steel Wheel Only)	1423 RPM
CLASS III	Consult Factory

Wheel Diameter	40.25 inches
Wheel Circumference	10.54 feet
Inlet Diameter/Area	41.17 inches dia./9.24 sq. ft.
Outlet Area	11.71 sq. ft.
Tip Speed	10.54 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7026	600	281	0.48	313	0.69	347	0.92	378	1.17												
8197	700	305	0.59	336	0.83	363	1.08	392	1.35	420	1.62	447	1.91								
9368	800	331	0.73	359	0.99	385	1.27	410	1.55	434	1.84	460	2.16	484	2.48						
10539	900	357	0.88	385	1.17	409	1.48	432	1.78	454	2.10	474	2.42	498	2.77	542	3.48	585	4.25		
11710	1000	385	1.05	411	1.38	434	1.71	456	2.05	477	2.39	497	2.74	515	3.09	556	3.84	596	4.63	632	5.45
12881	1100	413	1.25	437	1.61	460	1.97	481	2.33	501	2.71	520	3.08	538	3.46	572	4.24	609	5.07	646	5.94
14052	1200	441	1.48	464	1.86	486	2.26	506	2.65	525	3.05	544	3.46	561	3.87	595	4.69	626	5.55	660	6.46
15223	1300	470	1.74	492	2.15	513	2.58	532	3.00	551	3.42	569	3.85	585	4.30	618	5.19	648	6.09	677	7.02
16394	1400	499	2.03	520	2.47	540	2.92	559	3.39	577	3.84	594	4.29	610	4.76	641	5.72	671	6.67	699	7.64
17565	1500	530	2.37	549	2.83	568	3.30	586	3.80	603	4.30	620	4.77	636	5.26	666	6.27	694	7.30	722	8.32
18736	1600	560	2.74	577	3.23	596	3.73	613	4.24	630	4.77	646	5.30	662	5.81	691	6.86	719	7.95	745	9.05
19907	1700	591	3.16	607	3.67	624	4.20	641	4.74	657	5.29	673	5.85	688	6.41	717	7.51	744	8.64	769	9.80
21078	1800	622	3.62	637	4.16	653	4.71	669	5.27	685	5.85	700	6.44	715	7.04	743	8.20	769	9.38	794	10.59
22249	1900	653	4.13	668	4.69	682	5.27	698	5.86	713	6.46	728	7.08	742	7.70	769	8.96	795	10.18	820	11.43
23420	2000	684	4.69	698	5.28	712	5.88	726	6.50	741	7.12	755	7.76	769	8.41	796	9.74	821	11.03	845	12.33
25762	2200	746	5.97	760	6.61	773	7.27	786	7.93	798	8.61	812	9.30	825	10.00	850	11.43	874	12.89	897	14.32
28104	2400	809	7.49	822	8.18	834	8.89	846	9.61	858	10.34	869	11.08	882	11.83	906	13.35	929	14.91	951	16.51
30446	2600	873	9.26	884	10.01	896	10.77	907	11.54	918	12.32	929	13.11	939	13.91	962	15.54	984	17.20	1005	18.89
32788	2800	936	11.31	947	12.11	958	12.93	969	13.75	979	14.58	989	15.42	999	16.27	1019	18.00	1040	19.76	1060	21.55
35130	3000	1000	13.66	1010	14.51	1021	15.38	1031	16.26	1040	17.14	1050	18.04	1059	18.94	1078	20.77	1097	22.63	1117	24.52
37472	3200	1064	16.32	1074	17.24	1083	18.16	1093	19.09	1102	20.02	1111	20.97	1120	21.92	1138	23.85	1155	25.82	1174	27.81
39814	3400	1128	19.33	1137	20.30	1146	21.27	1155	22.25	1164	23.25	1173	24.24	1181	25.25	1198	27.28	1215	29.35	1231	31.44
42156	3600	1192	22.70	1201	23.72	1210	24.75	1218	25.79	1227	26.83	1235	27.88	1243	28.94	1259	31.08	1275	33.25	1290	35.44
44498	3800	1257	26.45	1265	27.53	1273	28.61	1281	29.70	1289	30.80	1297	31.90	1305	33.02	1321	35.26	1336	37.53	1350	39.83

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14052	1200	694	7.40	757	9.34																
15223	1300	708	7.99	770	10.04	828	12.18														
16394	1400	726	8.65	784	10.77	840	12.99	894	15.32												
17565	1500	748	9.36	798	11.53	854	13.85	906	16.25	956	18.74										
18736	1600	771	10.14	819	12.39	868	14.76	920	17.25	968	19.81	1014	22.45								
19907	1700	794	10.96	842	13.30	885	15.73	933	18.29	982	20.95	1027	23.68	1070	26.47						
21078	1800	818	11.82	865	14.28	908	16.79	948	19.40	995	22.14	1041	24.96	1084	27.84	1125	30.79	1170	33.98		
22249	1900	843	12.71	888	15.32	931	17.92	971	20.60	1009	23.38	1054	26.29	1097	29.27	1138	32.31	1178	35.41	1218	38.67
23420	2000	868	13.65	912	16.39	954	19.11	993	21.88	1031	24.73	1068	27.68	1111	30.75	1152	33.88	1191	37.08	1229	40.32
25762	2200	920	15.73	962	18.65	1001	21.66	1039	24.66	1076	27.68	1111	30.77	1144	33.94	1179	37.21	1218	40.59	1256	44.02
28104	2400	972	18.08	1013	21.18	1051	24.37	1087	27.66	1122	30.94	1156	34.21	1189	37.54	1221	40.95	1251	44.41	1283	47.98
30446	2600	1025	20.62	1065	24.00	1102	27.37	1137	30.84	1171	34.39	1203	37.98	1235	41.49	1266	45.06	1296	48.70	1325	52.39
32788	2800	1080	23.38	1118	27.11	1154	30.70	1188	34.34	1221	38.07	1252	41.88	1282	45.76	1313	49.55	1342	53.36	1371	57.22
35130	3000	1136	26.44	1172	30.37	1206	34.37	1240	38.19	1272	42.10	1302	46.08	1332	50.14	1361	54.28	1389	58.42	1417	62.46
37472	3200	1192	29.83	1227	33.95	1260	38.19	1292	42.42	1323	46.50	1353	50.66	1382	54.90	1410	59.21				
39814	3400	1249	33.56	1282	37.88	1315	42.31	1346	46.84	1376	51.30	1405	55.64								
42156	3600	1306	37.66	1339	42.18	1370	46.81	1400	51.52												
44498	3800	1365	42.15	1396	46.87																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
23420	2000	1265	43.63																		
25762	2200	1292	47.51	1361	54.65																
28104	2400	1319	51.65	1388	59.16																
30446	2600	1353	56.15	1415	63.95																
32788	2800	1398	61.15																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8845

Wheel Diameter	44.50 inches
Wheel Circumference	11.65 feet
Inlet Diameter/Area	45.90 inches dia./11.49 sq. ft.
Outlet Area	14.31 sq. ft.
Tip Speed	11.65 x RPM ft./minute

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

SIZE 8845	-20° to 150°F
CLASS I	987 RPM
CLASS II (Steel Wheel Only)	1288 RPM
CLASS III	Consult Factory

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8586	600	254	0.59	283	0.85	314	1.13	342	1.43												
10017	700	276	0.73	303	1.02	328	1.32	354	1.64	380	1.98	404	2.34								
11448	800	299	0.89	325	1.21	349	1.55	370	1.89	392	2.25	416	2.63	438	3.03						
12879	900	323	1.08	348	1.43	370	1.81	391	2.18	411	2.56	429	2.96	450	3.38	490	4.25	529	5.19		
14310	1000	348	1.28	371	1.68	393	2.09	412	2.50	431	2.92	449	3.34	466	3.78	502	4.70	539	5.66	572	6.66
15741	1100	373	1.53	395	1.97	416	2.40	435	2.85	453	3.31	470	3.77	487	4.23	517	5.18	551	6.20	584	7.26
17172	1200	399	1.81	420	2.28	439	2.76	458	3.23	475	3.72	492	4.22	507	4.73	538	5.73	566	6.78	597	7.89
18603	1300	425	2.12	445	2.63	464	3.15	481	3.67	498	4.18	514	4.71	529	5.25	559	6.34	586	7.44	612	8.58
20034	1400	452	2.49	470	3.02	488	3.57	505	4.14	522	4.69	537	5.25	552	5.81	580	6.99	607	8.15	632	9.34
21465	1500	479	2.89	496	3.46	513	4.04	530	4.64	545	5.25	561	5.83	575	6.43	602	7.66	628	8.92	653	10.17
22896	1600	506	3.35	522	3.94	539	4.56	555	5.19	570	5.83	584	6.48	598	7.10	625	8.39	650	9.71	674	11.06
24327	1700	534	3.86	549	4.48	565	5.13	580	5.79	595	6.46	609	7.15	622	7.83	648	9.17	673	10.55	696	11.98
25758	1800	562	4.42	576	5.08	590	5.75	605	6.44	620	7.15	633	7.87	646	8.60	672	10.02	696	11.46	718	12.93
27189	1900	590	5.04	604	5.73	617	6.44	631	7.16	645	7.89	658	8.65	671	9.41	695	10.94	719	12.43	741	13.96
28620	2000	618	5.73	631	6.45	644	7.18	657	7.94	670	8.70	683	9.48	696	10.28	720	11.90	742	13.48	764	15.06
31482	2200	675	7.29	687	8.08	699	8.88	710	9.69	722	10.52	734	11.36	746	12.22	769	13.96	791	15.75	811	17.49
34344	2400	732	9.15	743	10.00	754	10.86	765	11.74	776	12.63	786	13.53	797	14.45	819	16.31	840	18.22	860	20.18
37206	2600	789	11.31	800	12.23	810	13.16	820	14.10	830	15.05	840	16.02	849	16.99	870	18.98	890	21.01	909	23.08
40068	2800	847	13.81	857	14.80	866	15.79	876	16.80	885	17.81	894	18.84	903	19.88	922	21.99	941	24.14	959	26.33
42930	3000	904	16.68	914	17.73	923	18.79	932	19.86	941	20.94	949	22.03	958	23.14	975	25.37	992	27.64	1010	29.96
45792	3200	962	19.94	971	21.05	980	22.18	988	23.31	997	24.46	1005	25.62	1013	26.78	1029	29.14	1044	31.54	1061	33.97
48654	3400	1020	23.61	1029	24.79	1037	25.98	1045	27.19	1053	28.40	1061	29.62	1068	30.85	1084	33.33	1098	35.86	1113	38.41
51516	3600	1078	27.73	1086	28.98	1094	30.23	1102	31.50	1109	32.78	1117	34.06	1124	35.35	1139	37.97	1153	40.62	1167	43.30
54378	3800	1136	32.31	1144	33.63	1151	34.95	1159	36.28	1166	37.62	1173	38.97	1180	40.33	1194	43.07	1208	45.85	1221	48.66

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17172	1200	628	9.04	684	11.42																
18603	1300	640	9.77	696	12.26	749	14.89														
20034	1400	656	10.57	709	13.16	760	15.87	808	18.72												
21465	1500	677	11.44	721	14.10	772	16.93	819	19.86	864	22.91										
22896	1600	697	12.38	741	15.14	785	18.03	832	21.08	876	24.21	917	27.43								
24327	1700	718	13.40	761	16.25	801	19.22	844	22.36	888	25.60	929	28.93	968	32.35						
25758	1800	740	14.45	782	17.45	821	20.52	858	23.70	900	27.05	941	30.50	980	34.03	1017	37.63	1058	41.53		
27189	1900	762	15.53	803	18.72	842	21.89	878	25.18	913	28.57	954	32.13	993	35.77	1030	39.48	1065	43.27	1102	47.25
28620	2000	785	16.68	825	20.03	862	23.35	898	26.74	932	30.22	966	33.82	1005	37.58	1042	41.41	1077	45.31	1111	49.28
31482	2200	832	19.22	870	22.78	905	26.47	940	30.13	973	33.82	1005	37.61	1035	41.48	1067	45.47	1102	49.60	1136	53.80
34344	2400	879	22.10	916	25.87	950	29.78	983	33.79	1015	37.81	1046	41.80	1076	45.88	1104	50.03	1132	54.27	1161	58.63
37206	2600	927	25.19	963	29.33	996	33.45	1028	37.68	1059	42.02	1088	46.41	1117	50.70	1145	55.06	1172	59.51	1198	64.03
40068	2800	977	28.56	1011	33.13	1043	37.51	1074	41.96	1104	46.52	1132	51.17	1160	55.92	1187	60.55	1214	65.20	1239	69.93
42930	3000	1027	32.30	1060	37.11	1091	42.00	1121	46.67	1150	51.44	1178	56.31	1205	61.27	1230	66.32	1256	71.38	1281	76.32
45792	3200	1078	36.44	1109	41.48	1140	46.66	1169	51.82	1197	56.82	1224	61.90	1250	67.08	1276	72.35				
48654	3400	1129	41.00	1160	46.29	1189	51.70	1217	57.23	1244	62.68	1271	67.98								
51516	3600	1181	46.01	1211	51.54	1239	57.19	1266	62.95												
54378	3800	1234	51.50	1262	57.27																
57240	4000	1288	57.48																		

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
28620	2000	1144	53.32																		
31482	2200	1168	58.06	1231	66.78																
34344	2400	1193	63.12	1255	72.30																
37206	2600	1224	68.62	1280	78.15																
40068	2800	1265	74.72																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8849

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

SIZE 8849	-20° to 150°F
CLASS I	896 RPM
CLASS II (Steel Wheel Only)	1169 RPM
CLASS III	Consult Factory

Wheel Diameter	49 inches
Wheel Circumference	12.83 feet
Inlet Diameter/Area	49.94 inches dia./13.60 sq. ft.
Outlet Area	17.36 sq. ft.
Tip Speed	12.83 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10416	600	230	0.72	257	1.03	285	1.37	311	1.73												
12152	700	251	0.88	276	1.24	298	1.60	322	1.99	345	2.41	367	2.84								
13888	800	272	1.08	295	1.47	317	1.88	336	2.30	356	2.73	378	3.20	398	3.67						
15624	900	294	1.31	316	1.74	336	2.19	355	2.65	373	3.11	390	3.59	409	4.10	445	5.16	480	6.30		
17360	1000	316	1.56	337	2.04	357	2.53	375	3.04	392	3.54	408	4.06	423	4.58	456	5.70	489	6.87	520	8.08
19096	1100	339	1.85	359	2.39	378	2.92	395	3.46	411	4.01	427	4.57	442	5.13	470	6.29	500	7.52	531	8.80
20832	1200	362	2.19	381	2.76	399	3.35	416	3.92	432	4.52	447	5.13	461	5.73	489	6.96	514	8.23	542	9.57
22568	1300	386	2.58	404	3.19	421	3.82	437	4.45	453	5.07	467	5.72	481	6.37	507	7.69	532	9.02	556	10.41
24304	1400	410	3.02	427	3.66	444	4.33	459	5.03	474	5.69	488	6.36	501	7.06	527	8.48	551	9.89	574	11.33
26040	1500	435	3.51	451	4.19	467	4.90	481	5.63	496	6.37	509	7.08	522	7.80	547	9.29	570	10.83	593	12.33
27776	1600	460	4.06	474	4.79	490	5.53	504	6.29	518	7.08	531	7.86	544	8.62	568	10.17	591	11.78	612	13.41
29512	1700	485	4.68	499	5.44	513	6.22	527	7.02	540	7.84	553	8.68	565	9.51	589	11.13	611	12.81	632	14.53
31248	1800	511	5.37	524	6.16	536	6.98	550	7.82	563	8.68	575	9.55	587	10.44	610	12.16	632	13.91	653	15.69
32984	1900	536	6.12	549	6.96	561	7.81	573	8.69	586	9.58	598	10.49	610	11.42	632	13.28	653	15.09	673	16.94
34720	2000	562	6.95	574	7.83	585	8.72	597	9.63	609	10.56	621	11.51	632	12.47	654	14.45	675	16.36	694	18.28
38192	2200	613	8.85	624	9.81	635	10.78	646	11.77	656	12.77	667	13.79	678	14.83	699	16.95	718	19.12	737	21.23
41664	2400	665	11.10	675	12.14	685	13.19	695	14.25	705	15.33	714	16.43	724	17.54	744	19.80	763	22.12	781	24.48
45136	2600	717	13.73	727	14.85	736	15.97	745	17.12	754	18.27	763	19.44	772	20.63	790	23.04	808	25.50	826	28.01
48608	2800	769	16.77	778	17.97	787	19.17	796	20.39	804	21.63	813	22.87	821	24.13	837	26.69	855	29.30	871	31.96
52080	3000	822	20.26	830	21.53	839	22.81	847	24.11	855	25.42	863	26.75	870	28.09	885	30.80	901	33.55	917	36.36
55552	3200	874	24.21	882	25.56	890	26.93	898	28.31	906	29.70	913	31.10	920	32.51	935	35.38	949	38.28	964	41.24
59024	3400	927	28.67	935	30.11	942	31.55	949	33.01	957	34.48	964	35.96	971	37.45	985	40.46	998	43.52	1011	46.63
62496	3600	980	33.67	987	35.18	994	36.71	1001	38.25	1008	39.79	1015	41.35	1021	42.92	1035	46.09	1048	49.31	1060	52.56
65968	3800	1033	39.24	1039	40.83	1046	42.44	1053	44.05	1059	45.68	1066	47.32	1072	48.97	1085	52.29	1097	55.66	1109	59.07

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20832	1200	570	10.96	622	13.85																
22568	1300	581	11.85	633	14.88	680	18.05														
24304	1400	596	12.82	644	15.96	690	19.25	734	22.71												
26040	1500	615	13.88	655	17.10	701	20.54	744	24.09	785	27.78										
27776	1600	633	15.03	673	18.36	713	21.88	755	25.57	795	29.37	833	33.27								
29512	1700	652	16.26	691	19.72	727	23.32	767	27.12	806	31.06	844	35.10	879	39.24						
31248	1800	672	17.53	710	21.17	746	24.90	779	28.75	818	32.82	855	37.00	890	41.28	924	45.64	961	50.37		
32984	1900	693	18.84	729	22.71	765	26.56	797	30.55	829	34.66	866	38.98	901	43.39	935	47.90	967	52.49	1000	57.31
34720	2000	713	20.24	749	24.30	783	28.33	816	32.44	847	36.67	878	41.03	913	45.59	946	50.23	978	54.96	1009	59.78
38192	2200	755	23.33	790	27.65	822	32.12	854	36.56	884	41.04	913	45.63	940	50.32	969	55.16	1001	60.17	1032	65.27
41664	2400	799	26.81	832	31.40	863	36.13	893	41.00	922	45.87	950	50.72	977	55.66	1003	60.70	1028	65.84	1054	71.12
45136	2600	843	30.57	875	35.59	905	40.59	934	45.72	962	50.98	988	56.31	1015	61.51	1040	66.81	1065	72.20	1089	77.68
48608	2800	887	34.66	918	40.20	948	45.52	976	50.92	1003	56.44	1029	62.09	1054	67.85	1078	73.47	1103	79.11	1126	84.84
52080	3000	933	39.21	963	45.03	991	50.97	1019	56.63	1045	62.42	1070	68.32	1094	74.34	1118	80.47	1141	86.61	1164	92.60
55552	3200	979	44.23	1008	50.35	1035	56.62	1062	62.89	1087	68.95	1112	75.12	1136	81.40	1159	87.78				
59024	3400	1026	49.77	1054	56.18	1080	62.74	1106	69.45	1131	76.06	1155	82.50								
62496	3600	1073	55.85	1100	62.56	1126	69.41	1151	76.40												
65968	3800	1121	62.51	1147	69.51																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
34720	2000	1039	64.68																		
38192	2200	1061	70.44	1118	81.01																
41664	2400	1084	76.58	1140	87.70																
45136	2600	1112	83.25	1162	94.81																
48608	2800	1149	90.66																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8854

Wheel Diameter	54.25 inches
Wheel Circumference	14.20 feet
Inlet Diameter/Area	56.10 inches dia./17.17 sq. ft.
Outlet Area	21.28 sq. ft.
Tip Speed	14.20 x RPM ft./minute

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

SIZE 8854	-20° to 150°F
CLASS I	810 RPM
CLASS II (Steel Wheel Only)	1056 RPM
CLASS III	Consult Factory

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12768	600	208	0.88	232	1.26	257	1.68	281	2.12												
14896	700	226	1.08	249	1.52	269	1.96	291	2.45	312	2.95	332	3.48								
17024	800	246	1.32	267	1.81	286	2.30	304	2.81	322	3.35	341	3.92	359	4.50						
19152	900	265	1.60	285	2.13	304	2.69	321	3.24	337	3.81	352	4.41	369	5.03	402	6.32	434	7.72		
21280	1000	285	1.91	305	2.51	322	3.10	338	3.72	354	4.34	369	4.97	382	5.62	412	6.99	442	8.42	469	9.91
23408	1100	306	2.27	324	2.93	341	3.57	357	4.24	371	4.92	386	5.60	399	6.29	425	7.71	452	9.22	479	10.79
25536	1200	327	2.69	345	3.39	361	4.11	376	4.81	390	5.54	403	6.28	416	7.03	441	8.53	464	10.09	489	11.73
27664	1300	348	3.16	365	3.91	381	4.68	395	5.45	409	6.22	422	7.01	434	7.81	458	9.43	481	11.06	502	12.76
29792	1400	371	3.70	386	4.49	401	5.31	415	6.16	428	6.98	441	7.80	453	8.65	476	10.40	498	12.12	519	13.89
31920	1500	393	4.30	407	5.14	421	6.01	435	6.90	448	7.81	460	8.68	472	9.56	494	11.39	515	13.27	536	15.12
34048	1600	416	4.98	429	5.87	442	6.78	455	7.71	468	8.68	480	9.64	491	10.56	513	12.47	533	14.45	553	16.44
36176	1700	438	5.74	451	6.67	463	7.63	476	8.61	488	9.61	499	10.64	511	11.65	532	13.64	552	15.70	571	17.81
38304	1800	461	6.58	473	7.56	485	8.56	497	9.59	508	10.64	520	11.71	530	12.80	551	14.91	571	17.05	589	19.24
40432	1900	484	7.50	496	8.53	506	9.58	518	10.65	529	11.75	540	12.86	551	14.00	571	16.28	590	18.49	608	20.77
42560	2000	507	8.52	518	9.59	529	10.69	539	11.81	550	12.95	561	14.11	571	15.29	591	17.71	609	20.05	627	22.41
46816	2200	554	10.85	564	12.02	574	13.21	583	14.43	593	15.66	603	16.91	612	18.18	631	20.77	649	23.44	666	26.02
51072	2400	601	13.61	610	14.88	619	16.16	628	17.47	636	18.79	645	20.14	654	21.50	672	24.27	689	27.11	705	30.01
55328	2600	648	16.84	656	18.20	665	19.58	673	20.98	681	22.40	689	23.83	697	25.29	714	28.24	730	31.26	746	34.34
59584	2800	695	20.56	703	22.02	711	23.50	719	25.00	726	26.51	734	28.04	741	29.58	756	32.72	772	35.92	787	39.18
63840	3000	742	24.83	750	26.39	757	27.97	765	29.56	772	31.17	779	32.79	786	34.43	800	37.75	814	41.13	829	44.57
68096	3200	790	29.68	797	31.34	804	33.01	811	34.70	818	36.40	825	38.12	831	39.86	844	43.37	857	46.93	871	50.55
72352	3400	837	35.15	844	36.91	851	38.68	858	40.46	864	42.26	870	44.08	877	45.91	889	49.60	901	53.35	914	57.16
76608	3600	885	41.28	891	43.13	898	45.00	904	46.89	910	48.78	917	50.69	923	52.62	935	56.50	946	60.44	958	64.43
80864	3800	933	48.10	939	50.05	945	52.02	951	54.00	957	56.00	963	58.01	969	60.03	980	64.10	991	68.23	1002	72.41

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
25536	1200	515	13.44	561	16.98																
27664	1300	525	14.53	571	18.24	614	22.13														
29792	1400	538	15.71	582	19.56	623	23.60	663	27.83												
31920	1500	555	17.02	592	20.96	634	25.17	672	29.53	709	34.06										
34048	1600	572	18.42	608	22.51	644	26.82	682	31.34	718	36.00	752	40.79								
36176	1700	589	19.93	625	24.17	657	28.59	692	33.24	728	38.07	762	43.02	794	48.10						
38304	1800	607	21.49	642	25.95	674	30.52	704	35.25	739	40.23	772	45.36	804	50.60	835	55.95	868	61.74		
40432	1900	626	23.10	659	27.84	691	32.56	720	37.44	749	42.48	782	47.78	814	53.19	845	58.71	874	64.34	904	70.26
42560	2000	644	24.82	677	29.79	708	34.73	737	39.77	765	44.95	793	50.30	824	55.88	855	61.58	884	67.38	912	73.28
46816	2200	682	28.60	714	33.89	743	39.37	771	44.81	798	50.30	824	55.93	849	61.68	875	67.62	904	73.76	932	80.00
51072	2400	721	32.87	751	38.49	780	44.29	807	50.26	833	56.23	858	62.17	883	68.23	906	74.41	929	80.71	952	87.18
55328	2600	761	37.48	790	43.63	818	49.75	844	56.05	869	62.50	893	69.03	917	75.40	940	81.90	962	88.50	983	95.22
59584	2800	802	42.49	829	49.28	856	55.80	882	62.42	906	69.19	929	76.11	952	83.17	974	90.06	996	96.97	1017	104.00
63840	3000	843	48.06	870	55.20	895	62.48	920	69.42	944	76.52	966	83.75	988	91.13	1010	98.64	1030	106.17	1051	113.51
68096	3200	884	54.22	910	61.72	935	69.41	959	77.10	982	84.52	1004	92.08	1026	99.78	1047	107.61				
72352	3400	927	61.01	952	68.87	976	76.91	999	85.13	1021	93.24	1043	101.13								
76608	3600	969	68.47	993	76.68	1017	85.08	1039	93.66												
80864	3800	1013	76.63	1036	85.21																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
42560	2000	939	79.28																		
46816	2200	959	86.34	1010	99.30																
51072	2400	979	93.87	1030	107.51																
55328	2600	1004	102.04	1050	116.21																
59584	2800	1038	111.13																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8860

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

SIZE 8860	-20° to 150°
CLASS I	732
CLASS II (Steel Wheel Only)	955
CLASS III	Consult Factory

Wheel Diameter	60 inches
Wheel Circumference	15.71 feet
Inlet Diameter/Area	62.07 inches dia./21.01 sq. ft.
Outlet Area	26.02 sq. ft.
Tip Speed	15.71 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15612	600	188	1.07	210	1.54	233	2.05	254	2.60												
18214	700	205	1.32	225	1.85	243	2.40	263	2.99	282	3.61	300	4.25								
20816	800	222	1.61	241	2.21	259	2.82	275	3.44	291	4.10	308	4.79	325	5.50						
23418	900	240	1.96	258	2.60	274	3.28	290	3.97	305	4.66	318	5.39	334	6.15	364	7.73	392	9.44		
26020	1000	258	2.34	275	3.06	291	3.79	306	4.55	320	5.31	333	6.08	346	6.87	373	8.54	399	10.30	424	12.12
28622	1100	277	2.78	293	3.58	308	4.37	323	5.18	336	6.02	349	6.85	361	7.69	384	9.43	409	11.27	433	13.20
31224	1200	296	3.28	311	4.14	326	5.02	340	5.88	352	6.77	365	7.68	376	8.59	399	10.43	420	12.34	443	14.35
33826	1300	315	3.86	330	4.78	344	5.73	357	6.67	370	7.60	381	8.56	393	9.55	414	11.52	435	13.53	454	15.60
36428	1400	335	4.52	349	5.49	362	6.49	375	7.53	387	8.53	398	9.54	409	10.57	430	12.71	450	14.82	469	16.98
39030	1500	355	5.26	368	6.28	381	7.34	393	8.44	405	9.55	416	10.61	427	11.69	447	13.93	466	16.23	484	18.48
41632	1600	376	6.09	387	7.17	400	8.28	411	9.43	423	10.61	433	11.78	444	12.92	464	15.25	482	17.66	500	20.10
44234	1700	396	7.01	407	8.15	419	9.32	430	10.52	441	11.75	451	13.01	462	14.25	481	16.68	499	19.19	516	21.78
46836	1800	417	8.04	428	9.23	438	10.46	449	11.72	460	13.00	470	14.31	479	15.65	498	18.23	516	20.84	533	23.52
49438	1900	438	9.17	448	10.42	458	11.71	468	13.02	478	14.36	488	15.72	498	17.11	516	19.90	533	22.61	550	25.39
52040	2000	459	10.41	468	11.73	478	13.07	487	14.43	497	15.83	507	17.25	516	18.69	534	21.65	551	24.51	567	27.39
57244	2200	501	13.26	510	14.69	518	16.15	527	17.63	536	19.14	545	20.67	553	22.22	570	25.39	586	28.65	602	31.81
62448	2400	543	16.63	551	18.18	560	19.75	568	21.35	575	22.97	583	24.61	591	26.28	608	29.67	623	33.14	638	36.69
67652	2600	585	20.57	593	22.24	601	23.93	608	25.64	616	27.38	623	29.13	630	30.91	645	34.52	660	38.21	674	41.98
72856	2800	628	25.13	635	26.91	643	28.72	650	30.55	657	32.40	663	34.27	670	36.16	684	39.99	698	43.91	711	47.89
78060	3000	671	30.34	678	32.25	685	34.18	691	36.12	698	38.09	704	40.07	711	42.08	723	46.14	736	50.27	749	54.48
83264	3200	714	36.27	720	38.29	727	40.34	733	42.41	739	44.49	745	46.59	751	48.71	763	53.00	775	57.36	787	61.79
88468	3400	757	42.95	763	45.10	769	47.26	775	49.45	781	51.65	787	53.87	793	56.10	804	60.62	815	65.21	826	69.86
93672	3600	800	50.43	806	52.70	812	54.99	817	57.29	823	59.61	828	61.95	834	64.30	845	69.06	855	73.87	865	78.75
98876	3800	843	58.77	849	61.16	854	63.57	860	65.99	865	68.43	870	70.89	875	73.36	886	78.34	896	83.39	906	88.49

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
31224	1200	465	16.43	508	20.76																
33826	1300	475	17.76	517	22.30	555	27.06														
36428	1400	487	19.21	526	23.92	564	28.86	600	34.04												
39030	1500	502	20.81	535	25.63	573	30.78	608	36.10	641	41.65										
41632	1600	517	22.52	549	27.52	582	32.79	617	38.33	649	44.02	680	49.88								
44234	1700	533	24.36	565	29.56	594	34.96	626	40.65	658	46.55	689	52.61	718	58.81						
46836	1800	549	26.27	580	31.72	609	37.31	636	43.10	668	49.19	698	55.46	727	61.87	755	68.42	785	75.51		
49438	1900	566	28.24	596	34.03	624	39.81	651	45.78	677	51.95	707	58.42	736	65.04	764	71.79	790	78.68	817	85.92
52040	2000	582	30.34	612	36.42	640	42.46	666	48.62	691	54.96	717	61.50	745	68.33	773	75.29	799	82.39	824	89.60
57244	2200	617	34.96	645	41.43	671	48.14	697	54.79	722	61.50	745	68.38	768	75.42	791	82.68	817	90.19	842	97.83
62448	2400	652	40.18	679	47.05	705	54.15	729	61.45	753	68.75	776	76.01	798	83.42	819	90.98	839	98.69	861	106.60
67652	2600	688	45.81	714	53.33	739	60.82	763	68.52	785	76.41	807	84.39	829	92.19	849	100.13	870	108.21	889	116.42
72856	2800	725	51.94	750	60.25	774	68.22	797	76.31	819	84.59	840	93.05	860	101.68	881	110.10	900	118.56	919	127.15
78060	3000	762	58.75	786	67.48	809	76.37	832	84.87	853	93.54	874	102.39	894	111.41	913	120.60	932	129.80	950	138.78
83264	3200	799	66.28	823	75.44	845	84.85	867	94.25	888	103.32	908	112.57	927	121.98	946	131.56				
88468	3400	838	74.57	860	84.18	882	94.01	903	104.07	923	113.98	943	123.63								
93672	3600	876	83.68	898	93.73	919	104.00	939	114.49												
98876	3800	916	93.65	936	104.15																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
52040	2000	849	96.94																		
57244	2200	867	105.58	913	121.43																
62448	2400	885	114.78	931	131.46																
67652	2600	908	124.77	949	142.10																
72856	2800	938	135.87																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

8800 SERIES

SIZE 8866

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

Wheel Diameter	66 inches
Wheel Circumference	17.28 feet
Inlet Diameter/Area	67.98 inches dia./25.21 sq. ft.
Outlet Area	31.49 sq. ft.
Tip Speed	17.28 x RPM ft./minute

SIZE 8866	-20° to 150°F
CLASS I	666 RPM
CLASS II (Steel Wheel Only)	868 RPM
CLASS III	Consult Factory

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18894	600	171	1.30	191	1.87	212	2.49	231	3.14												
22043	700	186	1.60	205	2.24	221	2.91	239	3.62	256	4.37	273	5.15								
25192	800	202	1.95	219	2.67	235	3.41	250	4.16	265	4.96	280	5.80	295	6.66						
28341	900	218	2.37	235	3.15	250	3.97	264	4.80	277	5.64	289	6.52	304	7.44	330	9.36	357	11.42		
31490	1000	235	2.83	250	3.71	265	4.59	278	5.51	291	6.42	303	7.36	314	8.31	339	10.34	363	12.46	386	14.67
34639	1100	252	3.36	267	4.33	280	5.29	293	6.27	305	7.28	317	8.29	328	9.30	349	11.41	372	13.64	394	15.97
37788	1200	269	3.98	283	5.01	296	6.08	309	7.12	320	8.19	331	9.30	342	10.40	363	12.62	382	14.93	402	17.36
40937	1300	286	4.68	300	5.78	313	6.93	325	8.07	336	9.20	347	10.37	357	11.56	377	13.95	395	16.37	413	18.88
44086	1400	305	5.47	317	6.64	329	7.86	341	9.12	352	10.32	362	11.54	372	12.80	391	15.38	409	17.94	426	20.56
47235	1500	323	6.37	335	7.61	346	8.89	357	10.21	368	11.56	378	12.84	388	14.15	406	16.86	423	19.64	440	22.37
50384	1600	342	7.37	352	8.68	363	10.03	374	11.41	384	12.84	394	14.26	404	15.63	422	18.45	438	21.38	454	24.33
53533	1700	360	8.49	370	9.87	381	11.28	391	12.74	401	14.22	410	15.75	420	17.24	437	20.19	454	23.23	469	26.36
56682	1800	379	9.73	389	11.18	398	12.66	408	14.18	418	15.74	427	17.32	436	18.94	453	22.06	469	25.22	484	28.47
59831	1900	398	11.10	407	12.62	416	14.17	426	15.76	435	17.38	444	19.03	452	20.71	469	24.09	485	27.37	500	30.73
62980	2000	417	12.61	426	14.19	434	15.82	443	17.47	452	19.16	461	20.88	469	22.62	485	26.20	501	29.67	515	33.15
69278	2200	455	16.06	463	17.79	471	19.55	479	21.34	487	23.16	495	25.01	503	26.89	519	30.73	533	34.68	547	38.51
75576	2400	494	20.14	501	22.01	509	23.91	516	25.84	523	27.80	530	29.79	538	31.80	552	35.91	566	40.11	580	44.41
81874	2600	532	24.91	539	26.92	546	28.97	553	31.04	560	33.14	566	35.26	573	37.41	587	41.78	600	46.25	613	50.81
88172	2800	571	30.42	578	32.58	584	34.77	591	36.98	597	39.22	603	41.48	609	43.77	622	48.41	634	53.15	647	57.97
94470	3000	610	36.73	616	39.04	622	41.37	629	43.73	634	46.11	640	48.51	646	50.93	657	55.85	669	60.85	681	65.94
100768	3200	649	43.91	655	46.36	661	48.84	667	51.33	672	53.86	678	56.40	683	58.96	694	64.16	704	69.43	716	74.79
107066	3400	688	51.99	694	54.59	699	57.22	705	59.86	710	62.52	715	65.21	721	67.91	731	73.39	741	78.94	751	84.56
113364	3600	727	61.06	733	63.80	738	66.57	743	69.36	748	72.17	753	74.99	758	77.84	768	83.59	778	89.42	787	95.32
119662	3800	767	71.15	772	74.04	777	76.96	782	79.89	786	82.84	791	85.81	796	88.80	805	94.84	815	100.94	824	107.12

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
37788	1200	423	19.89	461	25.13																
40937	1300	432	21.50	470	26.99	505	32.75														
44086	1400	443	23.25	478	28.95	512	34.93	545	41.19												
47235	1500	456	25.18	486	31.02	521	37.25	553	43.69	583	50.40										
50384	1600	470	27.26	500	33.31	529	39.69	561	46.38	590	53.27	618	60.36								
53533	1700	484	29.49	513	35.77	540	42.31	569	49.19	599	56.34	626	63.67	653	71.18						
56682	1800	499	31.80	527	38.39	554	45.16	578	52.16	607	59.54	635	67.12	661	74.87	686	82.80	713	91.37		
59831	1900	514	34.18	541	41.19	568	48.18	592	55.41	615	62.87	643	70.70	669	78.71	694	86.88	718	95.22	743	103.97
62980	2000	530	36.72	556	44.08	582	51.39	606	58.85	629	66.51	652	74.43	678	82.70	703	91.12	726	99.70	749	108.44
69278	2200	561	42.31	586	50.15	611	58.26	634	66.31	656	74.44	678	82.76	698	91.28	719	100.06	743	109.15	766	118.39
75576	2400	593	48.63	618	56.95	641	65.53	663	74.37	684	83.21	705	91.99	725	100.96	745	110.11	763	119.43	783	129.01
81874	2600	625	55.45	649	64.55	672	73.62	693	82.93	714	92.48	734	102.14	753	111.58	772	121.18	791	130.96	808	140.90
88172	2800	659	62.87	682	72.92	704	82.57	725	92.36	745	102.38	764	112.61	782	123.07	801	133.26	818	143.49	836	153.89
94470	3000	693	71.11	715	81.68	736	92.44	756	102.72	776	113.22	794	123.93	812	134.84	830	145.96	847	157.10	864	167.96
100768	3200	727	80.22	748	91.32	769	102.70	788	114.07	807	125.06	825	136.25	843	147.64	860	159.22				
107066	3400	762	90.27	782	101.89	802	113.79	821	125.96	839	137.96	857	149.63								
113364	3600	797	101.30	816	113.46	836	125.88	854	138.57												
119662	3800	832	113.37	851	126.07																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
62980	2000	771	117.32																		
69278	2200	788	127.77	830	146.95																
75576	2400	805	138.90	846	159.09																
81874	2600	825	151.00	863	171.97																
88172	2800	853	164.44																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

PLENUM FANS

SIZE 8873

MAXIMUM CLASS OPERATING RPM
FAN TEMPERATURE

SIZE 8873	-20° to 150°F
CLASS I	602 RPM
CLASS II (Steel Wheel Only)	785 RPM
CLASS III	Consult Factory

Wheel Diameter	73 inches
Wheel Circumference	19.11 feet
Inlet Diameter/Area	74.27 inches dia./30.09 sq. ft.
Outlet Area	38.53 sq. ft.
Tip Speed	19.11 x RPM ft./minute

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		0.250		0.375		0.500		0.625		0.750		0.875		1.000		1.250		1.500		1.750	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
23118	600	155	1.59	173	2.28	191	3.04	209	3.84												
26971	700	168	1.96	185	2.74	200	3.56	216	4.43	232	5.34	246	6.30								
30824	800	182	2.39	198	3.27	213	4.17	226	5.09	239	6.07	254	7.09	267	8.15						
34677	900	197	2.90	212	3.86	226	4.86	238	5.87	250	6.91	261	7.98	274	9.11	299	11.45	322	13.97		
38530	1000	212	3.46	226	4.54	239	5.62	251	6.74	263	7.86	274	9.00	284	10.17	306	12.65	328	15.25	349	17.94
42383	1100	227	4.11	241	5.30	254	6.47	265	7.67	276	8.91	287	10.14	297	11.39	316	13.96	336	16.69	356	19.54
46236	1200	243	4.87	256	6.14	268	7.44	279	8.71	290	10.02	300	11.38	309	12.73	328	15.44	345	18.27	364	21.24
50089	1300	259	5.72	271	7.07	283	8.48	294	9.87	304	11.26	314	12.68	323	14.14	341	17.07	357	20.03	373	23.10
53942	1400	275	6.70	287	8.13	298	9.62	308	11.15	318	12.63	328	14.13	337	15.66	354	18.82	370	21.95	386	25.15
57795	1500	292	7.79	303	9.31	313	10.88	323	12.49	333	14.14	342	15.71	351	17.32	367	20.63	383	24.03	398	27.37
61648	1600	309	9.02	318	10.62	329	12.27	338	13.97	347	15.71	356	17.45	365	19.13	381	22.58	396	26.16	411	29.77
65501	1700	326	10.39	335	12.08	344	13.81	354	15.59	363	17.41	371	19.27	379	21.10	395	24.70	410	28.42	424	32.25
69354	1800	343	11.91	352	13.68	360	15.50	369	17.35	378	19.26	386	21.20	394	23.17	410	27.00	424	30.86	438	34.83
73207	1900	360	13.58	368	15.44	376	17.34	385	19.28	393	21.27	401	23.29	409	25.34	424	29.47	438	33.49	452	37.60
77060	2000	377	15.43	385	17.37	393	19.36	401	21.38	409	23.45	417	25.55	424	27.68	439	32.06	453	36.30	466	40.57
84766	2200	412	19.65	419	21.77	426	23.92	433	26.12	440	28.35	448	30.61	455	32.91	469	37.61	482	42.43	495	47.12
92472	2400	446	24.65	453	26.94	460	29.27	467	31.63	473	34.03	479	36.46	486	38.92	499	43.94	512	49.08	524	54.34
100178	2600	481	30.48	488	32.95	494	35.45	500	37.99	506	40.55	512	43.15	518	45.78	531	51.13	543	56.60	554	62.17
107884	2800	516	37.23	522	39.87	528	42.55	534	45.26	540	48.00	545	50.77	551	53.56	562	59.24	574	65.04	585	70.93
115590	3000	552	44.96	557	47.78	563	50.63	568	53.52	574	56.43	579	59.37	584	62.33	594	68.35	605	74.47	616	80.70
123296	3200	587	53.74	592	56.74	598	59.77	603	62.83	608	65.91	613	69.02	618	72.16	627	78.52	637	84.97	647	91.52
131002	3400	622	63.64	627	66.82	632	70.03	637	73.26	642	76.52	647	79.80	652	83.12	661	89.81	670	96.60	679	103.49
138708	3600	658	74.73	662	78.09	667	81.48	672	84.89	677	88.32	681	91.78	686	95.26	694	102.30	703	109.43	712	116.65
146414	3800	693	87.08	698	90.62	702	94.19	707	97.77	711	101.39	715	105.02	720	108.68	728	116.06	737	123.53	745	131.09

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		2.000		2.500		3.000		3.500		4.000		4.500		5.000		5.500		6.000		6.500	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
46236	1200	383	24.33	417	30.74																
50089	1300	390	26.30	425	33.02	456	40.07														
53942	1400	400	28.45	432	35.42	463	42.73	493	50.40												
57795	1500	413	30.81	440	37.95	471	45.58	500	53.46	527	61.66										
61648	1600	425	33.35	452	40.76	478	48.56	507	56.75	534	65.18	559	73.85								
65501	1700	438	36.08	464	43.77	488	51.77	515	60.19	541	68.93	566	77.90	590	87.09						
69354	1800	451	38.91	477	46.98	501	55.25	523	63.82	549	72.85	574	82.12	598	91.61	620	101.30	645	111.80		
73207	1900	465	41.82	490	50.40	513	58.96	535	67.80	556	76.92	581	86.51	605	96.31	628	106.31	649	116.50	672	127.21
77060	2000	479	44.93	503	53.94	526	62.89	548	72.00	568	81.39	589	91.07	613	101.18	635	111.49	657	121.99	678	132.68
84766	2200	507	51.78	530	61.36	552	71.29	573	81.14	593	91.08	613	101.27	631	111.68	650	122.43	672	133.55	692	144.86
92472	2400	536	59.51	558	69.69	580	80.19	599	91.01	619	101.81	638	112.56	656	123.54	673	134.73	690	146.14	708	157.86
100178	2600	566	67.85	587	78.99	608	90.08	627	101.47	646	113.16	663	124.98	681	136.53	698	148.28	715	160.24	731	172.40
107884	2800	596	76.93	616	89.23	636	101.04	655	113.01	673	125.27	691	137.80	707	150.58	724	163.06	740	175.58	756	188.30
115590	3000	626	87.02	646	99.95	665	113.12	684	125.69	701	138.54	718	151.64	735	165.00	750	178.60	766	192.23	781	205.52
123296	3200	657	98.17	677	111.74	695	125.67	713	139.59	730	153.03	746	166.72	762	180.66	778	194.83				
131002	3400	689	110.46	707	124.69	725	139.25	742	154.14	759	168.81	775	183.10								
138708	3600	720	123.96	738	138.84	756	154.05	772	169.57												
146414	3800	753	138.74	770	154.27																

VOL CFM	OV FPM	STATIC PRESSURE IN INCHES W.G.																			
		7.000		8.000		9.000		10.000		11.000		12.000		13.000		14.000		16.000		18.000	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
77060	2000	697	143.55																		
84766	2200	712	156.33	750	179.80																
92472	2400	727	169.96	765	194.66																
100178	2600	746	184.76	780	210.42																
107884	2800	771	201.21																		

The ACME class range is shown by the shaded areas. Fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 8.
For minimum motor size required see "Fan Starting Requirements," page 6.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation.
Performance shown is for Installation Type A: Free Inlet, Free Outlet.
Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

SOUND DATA

8815												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
800	1400	0.00	100	54	63	62	54	55	54	47	39	60
	1190	0.12	85	56	67	62	55	55	53	45	37	60
	980	0.24	70	58	67	61	54	54	51	44	36	59
	840	0.32	60	58	66	60	53	52	50	44	38	58
	700	0.38	50	58	66	60	54	52	50	45	40	59
1090	1908	0.00	100	64	68	71	65	61	61	57	49	68
	1622	0.22	85	66	71	72	65	62	61	55	47	69
	1335	0.44	70	67	71	72	65	60	59	54	46	68
	1145	0.60	60	67	71	71	64	59	58	54	47	67
	954	0.71	50	67	71	71	64	60	58	54	49	68
1480	2590	0.00	100	74	72	80	76	67	69	67	59	77
	2202	0.41	85	75	75	83	76	68	69	66	58	78
	1813	0.81	70	76	76	83	75	67	67	64	56	78
	1554	1.10	60	76	76	82	74	66	66	63	57	77
	1295	1.30	50	76	76	82	74	67	66	63	58	77
2010	3518	0.00	100	81	81	85	85	77	74	75	69	85
	2990	0.75	85	82	83	88	87	78	75	74	68	87
	2462	1.50	70	82	84	89	86	77	74	72	66	86
	2111	2.02	60	83	85	89	85	76	73	71	66	86
	1759	2.40	50	83	85	89	85	77	73	71	67	86
2720	4760	0.00	100	88	91	89	94	88	80	82	79	94
	4046	1.37	85	89	92	92	97	89	81	81	78	96
	3332	2.75	70	89	93	93	97	88	80	80	76	96
	2856	3.71	60	90	94	93	96	87	79	79	76	95
	2380	4.40	50	89	94	94	96	87	80	79	76	95
3700	6476	0.00	100	94	99	97	101	98	89	88	88	102
	5504	2.54	85	95	100	99	104	99	90	88	87	104
	4533	5.09	70	96	101	100	105	99	89	87	85	104
	3885	6.86	60	96	101	101	104	98	89	86	84	104
	3238	8.13	50	96	101	101	104	97	89	86	84	104

8816												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
730	1701	0.00	100	56	64	62	54	56	55	47	39	61
	1445	0.12	85	58	67	62	55	56	53	45	37	61
	1190	0.24	70	59	67	61	54	54	51	43	36	60
	1020	0.32	60	60	67	60	54	53	50	44	38	59
	850	0.38	50	60	67	60	54	53	51	45	40	59
990	2306	0.00	100	65	70	71	64	62	62	57	49	69
	1960	0.22	85	67	73	73	65	63	61	55	47	69
	1614	0.44	70	67	74	72	64	61	59	53	46	68
	1384	0.59	60	68	73	71	63	60	58	54	47	68
	1153	0.70	50	68	73	71	64	60	59	54	49	68
1340	3121	0.00	100	75	74	80	76	68	69	67	59	77
	2653	0.40	85	76	77	83	76	69	69	65	57	78
	2185	0.81	70	76	78	83	75	68	67	63	56	78
	1873	1.09	60	77	78	82	74	67	66	63	57	77
	1561	1.29	50	77	78	82	74	68	66	63	58	77
1830	4263	0.00	100	83	82	87	86	77	76	75	69	86
	3623	0.75	85	84	84	91	87	78	76	74	68	87
	2984	1.51	70	84	85	91	86	77	74	72	66	87
	2558	2.03	60	85	86	90	85	76	73	71	66	86
	2131	2.41	50	85	86	90	85	77	74	72	67	86
2480	5777	0.00	100	90	92	91	94	88	81	82	79	94
	4911	1.38	85	90	93	94	97	88	82	82	78	96
	4044	2.77	70	91	94	95	97	88	81	80	76	96
	3466	3.73	60	91	94	95	96	87	80	79	76	95
	2889	4.42	50	91	94	95	96	87	81	79	76	95
3363	7834	0.00	100	96	101	97	103	98	89	89	88	103
	6659	2.54	85	97	102	100	106	99	90	89	87	105
	5484	5.09	70	97	102	101	106	98	89	88	85	105
	4700	6.86	60	98	103	101	106	97	88	87	84	104
	3917	8.13	50	98	102	102	106	97	89	87	85	104

8818												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
660	2080	0.00	100	58	65	62	55	57	54	46	38	61
	1768	0.12	85	61	68	62	56	57	53	45	37	61
	1456	0.24	70	62	67	61	55	55	51	43	36	60
	1248	0.32	60	62	67	60	54	54	50	44	38	59
	1040	0.38	50	62	67	60	55	54	51	45	40	59
900	2837	0.00	100	65	72	72	64	63	63	56	48	70
	2411	0.22	85	67	76	73	65	64	62	55	47	70
	1986	0.45	70	68	76	72	64	62	60	53	46	69
	1702	0.60	60	69	75	71	63	61	59	54	47	68
	1418	0.71	50	69	75	71	64	61	59	55	49	68
1230	3877	0.00	100	76	76	81	75	69	70	67	59	78
	3295	0.42	85	77	79	83	76	70	70	65	57	79
	2714	0.83	70	78	80	83	75	69	68	63	56	78
	2326	1.12	60	78	80	82	74	68	67	63	57	77
	1939	1.33	50	78	81	82	74	69	67	64	58	78
1680	5295	0.00	100	85	83	89	86	77	77	76	69	87
	4501	0.78	85	86	85	93	87	78	77	75	68	88
	3707	1.55	70	86	86	93	86	77	76	73	66	88
	3177	2.09	60	87	87	92	85	76	74	72	67	87
	2648	2.48	50	86	87	92	85	77	75	73	68	87
2290	7218	0.00	100	91	93	94	95	88	83	84	80	95
	6135	1.44	85	92	94	97	97	89	84	83	78	97
	5053	2.89	70	93	95	97	97	88	82	81	76	96
	4331	3.89	60	93	96	97	96	87	82	80	76	96
	3609	4.61	50	93	96	97	96	87	82	80	77	96

8820												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
580	2433	0.00	100	61	64	60	57	54	51	48	45	60
	2068	0.12	85	60	64	59	55	53	49	45	41	58
	1703	0.25	70	59	61	56	53	51	47	41	35	56
	1460	0.33	60	60	61	55	51	50	46	40	35	55
	1217	0.38	50	60	60	53	50	48	45	40	36	54
800	3356	0.00	100	66	74	71	65	63	60	57	54	69
	2853	0.24	85	65	74	69	63	62	58	54	50	67
	2349	0.47	70	65	72	66	61	59	56	51	45	65
	2014	0.62	60	66	72	65	59	58	55	50	44	64
	1678	0.72	50	66	71	64	57	57	54	49	45	63
1100	4614	0.00	100	76	79	80	75	70	68	65	62	78
	3922	0.45	85	74	79	80	73	69	67	63	59	76
	3230	0.90	70	74	78	77	71	67	64	60	54	74
	2769	1.17	60	74	78	76	69	65	63	59	54	73
	2307	1.36	50	73	78	76	68	64	62	58	54	72
1510	6334	0.00	100	86	84	90	85	78	76	73	70	87
	5384	0.85	85	83	83	90	83	77	75	72	68	86
	4434	1.69	70	83	83	88	80	75	73	69	64	83
	3801	2.21	60	82	84	88	79	73	71	68	63	83
	3167	2.57	50	80	84	87	78	71	70	67	63	82
2070	8683	0.00	100	93	94	96	95	88	84	81	78	95
	7381	1.59	85	91	92	96	94	86	83	80	76	94
	6078	3.18	70	90	91	95	91	84	80	78	73	92
	5210	4.15	60	88	92	95	91	83	79	77	72	91
	4342	4.83	50	87	91	95	90	81	78	76	72	91

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L_{wi} and inlet $L_{wi}A$ sound power levels for Installation Type A: Free inlet, Free outlet. Ratings do not include effects of duct end correction.

SOUND DATA

8822												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
520	3003	0.00	100	63	64	60	57	55	52	49	46	60
	2553	0.12	85	63	64	59	56	53	50	46	42	59
	2102	0.25	70	61	61	56	54	51	47	41	35	56
	1802	0.32	60	62	60	55	52	50	46	40	35	55
	1502	0.38	50	62	60	53	51	49	45	40	36	54
720	4159	0.00	100	68	74	71	65	63	60	57	54	69
	3535	0.24	85	67	75	69	64	62	58	54	50	68
	2911	0.48	70	67	72	66	62	60	56	51	45	65
	2495	0.62	60	68	72	65	60	58	55	50	45	64
	2079	0.72	50	68	71	64	58	57	54	50	45	63
980	5660	0.00	100	76	81	80	74	71	68	65	62	78
	4811	0.44	85	75	81	79	73	70	67	63	59	76
	3962	0.88	70	74	80	77	71	67	65	60	54	74
	3396	1.15	60	75	80	76	69	66	63	59	54	73
	2830	1.34	50	75	79	75	67	65	62	58	54	72
1350	7797	0.00	100	86	86	90	85	79	77	73	70	87
	6628	0.84	85	84	85	90	83	77	75	72	68	86
	5458	1.67	70	83	85	88	80	75	73	69	64	83
	4678	2.19	60	83	86	87	79	73	72	68	63	83
	3899	2.54	50	82	86	87	78	72	71	67	63	82
1860	10743	0.00	100	95	94	98	95	88	85	82	79	96
	9132	1.59	85	92	92	98	94	86	83	80	77	95
	7520	3.18	70	91	92	96	91	84	81	78	73	93
	6446	4.15	60	90	93	96	90	82	80	77	72	92
	5372	4.83	50	89	93	96	89	81	78	76	72	91
2560	14786	0.00	100	102	104	103	104	98	92	90	87	104
	12568	3.01	85	99	102	102	104	97	91	89	85	104
	10350	6.02	70	98	101	102	102	94	89	87	83	102
	8872	7.86	60	97	101	102	101	93	87	85	82	101
	7393	9.14	50	96	100	102	101	91	86	84	81	100

8824												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
470	3624	0.00	100	65	65	60	58	55	52	49	46	61
	3081	0.12	85	65	64	59	56	54	50	46	42	59
	2537	0.25	70	63	61	56	54	51	46	41	35	56
	2175	0.32	60	63	60	55	53	50	46	40	35	55
	1812	0.37	50	63	59	53	51	49	45	40	36	54
650	5012	0.00	100	70	75	71	66	63	60	57	54	69
	4260	0.23	85	69	75	69	64	62	59	55	51	68
	3509	0.47	70	69	72	66	62	60	56	51	45	66
	3007	0.62	60	70	72	65	60	59	55	50	45	64
	2506	0.71	50	70	71	64	59	58	54	50	45	63
890	6863	0.00	100	77	83	81	74	71	69	66	63	78
	5834	0.44	85	75	83	79	73	70	67	63	59	77
	4804	0.88	70	75	81	77	71	68	65	60	54	74
	4118	1.15	60	76	81	76	69	67	64	59	54	73
	3432	1.34	50	76	81	75	67	65	63	59	54	72
1230	9485	0.00	100	87	88	90	85	79	77	74	71	87
	8062	0.84	85	85	87	90	83	78	76	72	68	86
	6639	1.68	70	84	87	88	80	76	73	70	64	84
	5691	2.20	60	84	87	87	79	74	72	69	63	83
	4742	2.56	50	83	87	87	78	73	71	68	63	82
1690	13032	0.00	100	96	95	100	95	88	85	82	79	96
	11077	1.59	85	94	93	100	93	86	84	81	77	95
	9122	3.18	70	93	93	98	90	84	82	79	73	93
	7819	4.16	60	92	94	98	89	82	80	78	73	92
	6516	4.83	50	90	94	97	88	81	79	76	72	92
2325	17929	0.00	100	103	104	105	105	98	93	91	88	105
	15239	3.01	85	101	102	104	104	96	92	89	86	104
	12550	6.02	70	100	102	103	102	94	89	87	83	102
	10757	7.86	60	99	102	104	101	92	88	86	82	101
	8964	9.14	50	97	101	104	100	91	86	85	81	100

8827												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
420	4562	0.00	100	65	63	58	55	52	47	42	37	57
	3878	0.11	85	65	63	57	54	50	46	41	36	56
	3193	0.22	70	64	61	56	52	49	44	40	35	55
	2737	0.29	60	63	60	54	51	47	43	38	33	53
	2281	0.34	50	63	59	53	50	47	43	39	35	53
580	6300	0.00	100	72	74	67	63	61	57	52	47	66
	5355	0.21	85	72	75	67	62	59	55	50	45	66
	4410	0.42	70	72	74	65	61	58	53	49	44	64
	3780	0.55	60	71	73	62	59	56	52	47	42	63
	3150	0.64	50	71	72	62	59	56	52	48	44	62
790	8581	0.00	100	78	82	78	72	68	65	60	55	75
	7294	0.39	85	78	82	78	71	67	64	59	54	75
	6007	0.78	70	78	82	76	69	66	62	57	53	73
	5148	1.02	60	77	81	74	68	64	61	56	51	72
	4290	1.19	50	78	80	74	67	64	60	56	52	71
1080	11731	0.00	100	84	89	89	81	76	74	70	65	84
	9971	0.73	85	83	90	89	80	75	72	68	63	84
	8211	1.46	70	83	89	88	78	74	71	66	62	83
	7038	1.91	60	82	88	87	76	72	69	65	60	81
	5865	2.22	50	83	88	86	76	72	69	65	61	81
1480	16075	0.00	100	90	96	98	91	85	82	78	74	93
	13664	1.37	85	90	96	98	91	84	81	77	72	93
	11253	2.75	70	89	95	97	89	83	79	75	71	92
	9645	3.59	60	89	95	96	87	81	78	74	69	91
	8038	4.17	50	90	95	95	87	80	77	74	69	90
2020	21941	0.00	100	97	101	105	102	94	89	87	83	102
	18649	2.56	85	97	101	105	102	93	89	86	81	102
	15358	5.12	70	96	101	105	101	91	87	84	79	101
	13164	6.68	60	96	100	104	100	89	86	82	78	100
	10970	7.77	50	97	101	104	99	89	85	82	78	100

8830												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
370	5513	0.00	100	66	62	57	55	51	47	42	37	57
	4686	0.11	85	66	62	57	54	50	45	40	35	56
	3859	0.21	70	65	60	55	52	48	44	39	35	54
	3308	0.28	60	64	58	54	51	47	42	38	33	53
	2756	0.32	50	63	58	53	50	47	43	39	35	53
510	7599	0.00	100	73	73	67	63	60	56	51	46	66
	6459	0.20	85	73	73	66	62	59	55	50	45	65
	5319	0.40	70	73	72	64	61	57	53	48	44	64
	4559	0.53	60	72	71	62	59	56	52	47	42	62
	3799	0.61	50	72	70	62	59	55	51	47	43	62
700	10430	0.00	100	80	83	77	71	69	65	60	55	75
	8865	0.38	85	80	83	77	71	67	64	59	54	74
	7301	0.76	70	80	82	75	69	66	62	57	53	73
	6258	0.99	60	79	81	73	67	64	60	56	51	71
	5215	1.15	50	79	81	73	67	64	60	56	52	71
960	14303	0.00	100	85	90	88	80	76	74	69	64	84
	12158	0.71	85	85	90	88	80	75	72	68	63	84
	10012	1.43	70	85	90	87	78	74	71	66	62	83
	8582	1.86	60	84	89	85	76	72	69	65	60	81
	7152	2.17	50	85	89	85	76	72	69	65	61	81
1320	19667	0.00	100	91	97	98	90	85	82	78	74	94
	16717	1.35	85	91	97	99	90	84	81	77	72	93
	13767	2.70	70	91	97	98	88	83	79	75	71	92
	11800	3.52	60	90	96	97	86	81	78	74	69	91
	9834	4.10	50	91	97	96	86	81	78	74	70	90
1818	27087	0.00	100	98	103	106	102	94	90	87	83	103
	23024	2.56	85	98	103	106	102	93	89	86	82	102
	18961	5.12	70	98	102	106	100	92	88	84	80	101
	16252	6.68	60	97	102	104	99	90	86	83	78	100
	13544	7.77	50	98	102	104	98	89	86	82	78	100

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L_{wi} and inlet $L_{wi}A$ sound power levels for Installation Type A: Free inlet, Free outlet. Ratings do not include effects of duct end correction.

SOUND DATA

8833												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
340	6743	0.00	100	67	62	58	56	52	47	42	37	58
	5731	0.11	85	67	62	57	54	51	46	41	36	57
	4720	0.22	70	67	60	56	53	49	44	40	36	55
	4046	0.28	60	65	58	54	51	47	43	38	33	53
	3371	0.33	50	65	58	54	51	47	43	39	35	53
470	9321	0.00	100	75	74	67	64	61	57	52	47	67
	7923	0.21	85	75	74	67	63	60	55	50	45	66
	6524	0.41	70	74	73	65	61	58	53	49	45	64
	5592	0.54	60	73	71	63	60	56	52	47	42	63
	4660	0.63	50	73	71	63	59	56	52	48	44	63
640	12692	0.00	100	82	84	77	72	69	65	60	55	76
	10788	0.38	85	82	84	76	71	68	64	59	54	75
	8884	0.77	70	82	83	74	70	67	62	58	53	74
	7615	1.00	60	81	82	72	68	65	61	56	51	72
	6346	1.17	50	81	82	72	68	65	61	57	53	72
880	17451	0.00	100	87	92	88	81	77	74	70	65	85
	14834	0.73	85	87	92	88	80	76	73	68	63	84
	12216	1.45	70	87	91	87	79	75	71	67	62	83
	10471	1.89	60	86	90	85	77	73	70	65	60	81
	8726	2.20	50	87	90	85	76	73	69	65	61	81
1200	23797	0.00	100	93	99	99	90	85	83	79	39	94
	20228	1.35	85	93	99	99	89	84	81	77	48	94
	16658	2.70	70	92	99	99	87	83	80	75	52	93
	14278	3.52	60	92	98	97	85	81	78	74	53	91
	11899	4.10	50	93	98	97	85	81	78	74	53	91
1652	32761	0.00	100	100	104	107	101	94	91	87	83	103
	27847	2.56	85	100	104	107	101	93	90	86	82	103
	22933	5.11	70	99	104	106	100	92	88	84	80	101
	19657	6.68	60	98	103	105	98	90	86	83	78	100
	16380	7.77	50	100	104	104	97	90	86	83	79	100

8837												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
300	8028	0.00	100	65	59	55	53	49	42	34	26	54
	6824	0.12	85	65	58	54	51	46	40	34	27	53
	5620	0.24	70	63	56	52	49	45	40	35	30	51
	4817	0.30	60	61	53	50	46	42	38	34	31	49
	4014	0.33	50	59	51	47	44	40	36	33	30	46
390	10436	0.00	100	75	67	62	59	57	50	42	34	62
	8871	0.21	85	77	67	61	59	54	49	42	35	61
	7305	0.41	70	75	64	59	56	52	48	42	37	58
	6262	0.51	60	72	62	56	54	50	46	42	38	56
	5218	0.56	50	70	59	54	51	47	43	40	37	54
510	13648	0.00	100	81	77	70	66	64	59	51	43	69
	11600	0.35	85	82	77	69	65	62	57	50	43	68
	9553	0.70	70	80	75	67	63	59	55	50	45	66
	8189	0.88	60	78	72	65	61	57	53	49	45	64
	6824	0.95	50	75	70	62	58	54	50	47	44	61
660	17662	0.00	100	84	87	78	73	70	67	60	52	77
	15012	0.60	85	85	88	78	72	69	65	59	52	77
	12363	1.16	70	83	86	75	70	66	62	58	53	74
	10597	1.47	60	80	83	73	67	64	60	56	52	72
	8831	1.60	50	78	81	70	65	61	57	54	51	70
870	23281	0.00	100	88	97	87	80	77	75	69	61	86
	19789	1.03	85	88	98	87	80	76	72	67	61	86
	16297	2.02	70	86	96	84	77	74	70	66	61	84
	13969	2.55	60	83	94	82	75	72	68	64	60	81
	11641	2.77	50	81	92	79	72	69	65	61	58	79
1129	30212	0.00	100	94	100	97	89	84	81	77	70	93
	25680	1.74	85	94	101	98	88	83	80	75	69	93
	21148	3.41	70	91	99	95	85	81	77	73	68	90
	18127	4.29	60	89	97	93	83	78	75	71	67	88
	15106	4.67	50	87	94	91	81	76	72	68	65	86

8840												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
270	9689	0.00	100	65	59	55	53	49	41	33	25	54
	8235	0.12	85	65	58	55	52	47	41	34	27	53
	6782	0.24	70	62	55	52	49	45	40	35	30	51
	5813	0.30	60	60	53	50	46	42	38	35	31	49
	4844	0.32	50	58	51	47	44	40	37	33	30	46
370	13277	0.00	100	77	69	64	61	58	52	44	36	63
	11286	0.23	85	78	68	63	60	56	51	44	37	62
	9294	0.44	70	76	66	60	57	53	49	44	39	60
	7966	0.56	60	74	63	58	55	51	47	43	39	58
	6639	0.61	50	71	61	56	53	49	45	42	39	55
510	18301	0.00	100	84	80	73	69	67	62	54	46	73
	15556	0.43	85	86	80	73	69	65	60	54	47	72
	12811	0.85	70	84	78	70	66	62	58	53	48	69
	10981	1.07	60	81	76	68	64	60	56	52	48	67
	9151	1.16	50	79	73	65	61	57	53	50	47	65
700	25119	0.00	100	88	93	83	77	75	72	65	57	82
	21351	0.81	85	89	94	83	77	74	69	64	57	82
	17583	1.59	70	87	91	80	74	71	67	62	57	79
	15071	2.01	60	85	89	78	72	69	65	61	57	77
	12560	2.18	50	82	87	75	69	66	62	58	55	75
970	34808	0.00	100	94	101	95	87	83	81	75	68	92
	29587	1.56	85	94	103	95	86	82	79	74	67	92
	24365	3.06	70	92	101	92	83	80	76	72	67	89
	20885	3.86	60	89	99	90	81	77	74	70	66	87
	17404	4.19	50	87	96	87	79	75	71	67	64	84
1335	47906	0.00	100	101	106	107	97	91	89	85	78	101
	40720	2.96	85	101	107	108	97	91	87	83	77	102
	33534	5.80	70	99	104	106	94	88	85	81	76	99
	28743	7.30	60	96	102	103	91	86	82	78	74	97
	23953	7.94	50	94	99	101	89	83	80	76	72	94

8845												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
250	12123	0.00	100	65	60	57	54	49	42	34	26	55
	10305	0.13	85	65	59	56	52	48	41	34	27	54
	8466	0.25	70	63	56	53	50	46	41	36	30	52
	7274	0.31	60	60	54	51	47	43	39	35	32	50
	6062	0.34	50	58	52	48	45	41	38	35	32	47
340	16488	0.00	100	77	70	65	62	59	52	44	36	64
	14015	0.23	85	78	69	64	60	56	51	44	37	63
	11542	0.46	70	76	66	61	58	54	50	45	39	61
	9893	0.53	60	74	64	59	56	52	48	44	39	58
	8244	0.63	50	71	61	56	53	49	46	43	40	56
470	22792	0.00	100	87	81	74	70	68	62	55	47	73
	19373	0.45	85	88	80	73	69	66	61	54	47	72
	15955	0.88	70	86	78	70	67	63	59	54	49	70
	13675	1.11	60	84	75	68	65	61	57	53	49	68
	11396	1.20	50	82	73	66	62	58	54	51	48	65
640	31036	0.00	100	91	92	84	78	76	72	65	57	82
	26381	0.83	85	92	93	83	77	74	70	64	57	82
	21725	1.63	70	89	91	80	75	71	67	63	58	80
	18622	2.05	60	87	89	78	73	69	65	61	57	77
	15518	2.23	50	85	86	75	70	67	63	59	56	75
880	42675	0.00	100	95	104	94	87	83	81	76	68	92
	36273	1.57	85	96	105	93	86	83	79	74	67	92
	29872	3.08	70	93	103	91	83	80	76	72	67	90
	25605	3.88	60	91	101	89	81	78	74	70	66	88
	21337	4.22	50	88	98	86	79	75	71	67	64	85
1208	58581	0.00	100	102	108	106	97	92	89	85	78	101
	49794	2.96	85	103	109	107	96	91	88	83	77	101
	41006	5.80	70	100	106	104	93	88	85	81	76	99
	35148	7.31	60	98	104	102	91	86	83	79	75	97
	29290	7.95	50	95	102	100	89	84	80	76	73	94

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L_{wi} and inlet $L_{wi}A$ sound power levels for Installation Type A: Free inlet, Free outlet. Ratings do not include effects of duct end correction.

SOUND DATA

8849												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
220	14244	0.00	100	64	59	56	54	48	40	32	24	55
	12107	0.12	85	63	58	56	52	47	40	33	26	53
	9970	0.23	70	60	55	53	49	45	40	35	29	51
	8546	0.29	60	58	53	51	47	43	39	35	31	49
	7122	0.32	50	56	51	48	44	40	37	34	31	47
300	19423	0.00	100	76	69	64	62	58	51	43	35	63
	16510	0.22	85	76	68	64	60	56	50	43	36	62
	13596	0.43	70	74	65	61	57	53	49	44	39	60
	11654	0.55	60	72	63	59	55	51	47	43	40	58
	9712	0.59	50	69	61	56	53	49	45	42	39	55
420	27192	0.00	100	89	79	73	70	68	62	54	46	73
	23113	0.43	85	90	79	72	69	65	60	53	46	72
	19035	0.85	70	88	76	70	67	63	59	54	48	70
	16315	1.07	60	86	74	67	65	61	57	53	49	68
	13596	1.16	50	83	71	65	62	58	54	51	48	65
580	37551	0.00	100	93	92	83	78	76	72	65	57	82
	31919	0.83	85	94	92	83	78	74	70	64	57	82
	26286	1.62	70	92	90	80	75	72	68	63	58	79
	22531	2.04	60	90	88	78	73	69	65	61	58	77
	18776	2.22	50	87	85	75	70	67	63	59	56	75
800	51795	0.00	100	97	104	94	87	84	82	75	67	93
	44026	1.58	85	98	105	93	86	83	79	74	67	93
	36256	3.08	70	95	104	90	84	80	76	72	67	91
	31077	3.89	60	93	101	88	81	78	74	70	66	88
	25897	4.23	50	90	99	86	79	76	72	68	65	86
1097	71024	0.00	100	103	110	105	97	92	90	85	78	101
	60370	2.96	85	104	111	106	96	91	88	83	77	101
	49716	5.80	70	101	108	103	93	89	85	81	76	99
	42614	7.31	60	99	106	101	91	87	83	79	75	97
	35512	7.95	50	96	104	98	89	84	80	76	73	94

8854												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
200	17573	0.00	100	64	59	57	55	48	40	32	24	55
	14937	0.12	85	63	59	56	52	47	40	33	26	53
	12301	0.24	70	61	56	53	49	45	40	35	30	52
	10544	0.30	60	59	54	51	47	43	39	36	32	50
	8786	0.32	50	56	51	49	45	41	38	35	32	47
280	24602	0.00	100	77	70	66	63	59	52	44	36	65
	20911	0.24	85	77	69	65	62	57	51	44	37	63
	17221	0.46	70	74	66	62	59	55	50	45	40	61
	14761	0.58	60	72	64	60	56	52	49	45	41	59
	12301	0.63	50	70	62	58	54	50	47	44	41	57
380	33388	0.00	100	88	80	74	71	68	62	54	46	73
	28380	0.44	85	90	79	73	70	66	60	53	46	73
	23372	0.85	70	88	76	70	67	63	59	54	49	70
	20033	1.08	60	85	74	68	65	61	57	53	49	68
	16694	1.17	50	83	71	65	62	58	54	52	49	66
520	45689	0.00	100	95	91	83	79	76	72	64	56	82
	38836	0.82	85	96	91	82	78	74	70	63	56	82
	31982	1.60	70	94	88	80	75	72	68	63	58	79
	27413	2.01	60	92	86	77	73	69	65	62	58	77
	22844	2.19	50	90	84	75	71	67	63	60	57	75
720	63261	0.00	100	99	103	93	87	84	81	75	67	92
	53772	1.56	85	100	104	93	87	83	79	74	67	92
	44283	3.06	70	98	102	90	84	81	77	72	67	90
	37957	3.86	60	95	100	88	82	78	74	70	67	88
	31631	4.20	50	93	98	85	79	76	72	68	65	85
991	87072	0.00	100	105	112	105	96	92	90	85	78	101
	74012	2.96	85	105	113	104	96	92	88	83	77	101
	60951	5.80	70	103	111	102	93	89	85	81	77	99
	52243	7.31	60	100	109	100	91	87	83	79	75	97
	43536	7.95	50	98	106	97	88	84	81	77	73	94

8860												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
180	21396	0.00	100	64	60	57	54	48	40	32	24	55
	18187	0.12	85	64	59	56	52	47	40	33	26	54
	14977	0.23	70	61	56	54	50	45	40	35	30	52
	12838	0.29	60	59	54	51	47	43	39	36	32	50
	10698	0.32	50	56	52	49	45	41	38	35	32	48
250	29717	0.00	100	76	69	66	63	58	51	43	35	65
	25259	0.23	85	75	69	65	61	57	50	43	36	63
	20802	0.45	70	73	66	62	59	55	50	45	39	61
	17830	0.57	60	71	64	60	56	52	49	45	41	59
	14858	0.62	50	68	61	58	54	50	47	44	41	57
340	40415	0.00	100	87	79	74	71	68	61	53	45	73
	34353	0.43	85	88	79	73	70	66	60	53	46	72
	28290	0.83	70	86	76	70	67	63	59	54	48	70
	24249	1.05	60	84	74	68	65	61	57	53	49	68
	20207	1.14	50	81	71	66	62	58	55	52	49	65
470	55867	0.00	100	97	90	83	79	77	72	64	56	83
	47487	0.81	85	98	90	82	78	75	70	63	56	82
	39107	1.60	70	97	87	79	76	72	68	63	58	79
	33520	2.01	60	95	85	77	74	70	66	62	58	77
	27934	2.19	50	92	83	75	71	67	63	60	57	75
650	77264	0.00	100	102	103	93	88	85	81	75	67	92
	65674	1.56	85	102	103	93	87	84	79	73	66	92
	54084	3.05	70	100	101	90	84	81	77	72	67	89
	46358	3.85	60	98	99	88	82	79	75	71	67	87
	38632	4.18	50	95	97	85	80	76	72	69	66	85

8866												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
170	26896	0.00	100	65	61	59	56	49	41	33	25	56
	22862	0.13	85	65	61	58	53	48	41	34	27	55
	18827	0.25	70	62	58	55	51	47	41	36	31	53
	16138	0.32	60	60	56	53	49	45	41	37	33	51
	13448	0.35	50	57	53	50	46	43	40	37	34	49
230	36389	0.00	100	76	70	66	64	59	51	43	35	65
	30930	0.24	85	75	69	66	62	57	50	43	36	64
	25472	0.46	70	73	66	63	59	55	50	45	40	61
	21833	0.58	60	70	64	61	57	53	49	45	41	59
	18194	0.63	50	68	62	58	54	50	47	44	41	57
320	50628	0.00	100	88	80	75	72	69	62	54	46	74
	43034	0.46	85	89	80	74	71	67	61	54	47	73
	35439	0.89	70	87	77	72	68	64	60	55	50	71
	30377	1.13	60	85	75	70	66	62	58	54	50	69
	25314	1.23	50	82	72	67	64	60	56	53	50	67
440	69613	0.00	100	100	91	84	80	78	72	65	57	84
	59171	0.87	85	101	90	83	80	76	71	64	57	83
	48729	1.69	70	99	88	80	77	73	69	64	59	81
	41768	2.13	60	97	85	78	75	71	67	63	59	78
	34807	2.32	50	95	83	75	72	68	64	61	58	76
600	94927	0.00	100	104	103	93	88	86	82	75	67	93
	80688	1.61	85	105	103	93	88	84	80	74	67	92
	66449	3.15	70	102	101	90	85	82	78	73	68	90
	56956	3.96	60	100	99	88	83	79	75	71	68	88
	47464	4.31	50	98	96	85	80	77	73	69	66	85

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SOUND DATA

8873												
RPM	CFM	SP	Percent WOV	Inlet Sound Power, Lwi(db)								$L_{wi}A$
				1	2	3	4	5	6	7	8	
150	32112	0.00	100	68	65	62	58	51	43	35	27	59
	27295	0.12	85	66	63	60	56	49	42	35	28	57
	22478	0.24	70	62	59	56	52	47	42	36	31	54
	19267	0.30	60	59	56	53	49	45	41	37	33	51
	16056	0.33	50	59	55	52	48	44	40	37	33	50
210	44957	0.00	100	79	73	71	69	63	55	47	39	69
	38213	0.24	85	77	72	69	66	60	53	46	39	67
	31470	0.47	70	73	68	65	61	57	51	46	41	63
	26974	0.59	60	70	65	62	58	54	50	46	42	60
	22478	0.65	50	69	64	61	57	53	49	46	42	60
280	59942	0.00	100	90	82	78	76	71	64	56	48	77
	50951	0.43	85	89	81	77	73	69	62	55	48	75
	41960	0.84	70	85	77	72	69	65	60	55	49	71
	35965	1.06	60	82	74	69	66	62	58	54	50	68
	29971	1.15	50	82	73	69	65	61	57	53	50	68
390	83491	0.00	100	103	93	87	84	81	75	67	59	87
	70968	0.83	85	103	91	85	82	78	73	66	59	85
	58444	1.63	70	100	87	81	78	74	70	64	59	81
	50095	2.05	60	96	84	78	75	71	67	63	59	78
	41746	2.23	50	96	84	77	74	70	66	62	59	77
540	115603	0.00	100	109	105	97	92	90	85	78	70	96
	98263	1.59	85	109	104	95	91	87	83	76	69	95
	80922	3.12	70	106	101	91	87	83	79	74	69	91
	69362	3.93	60	102	97	88	83	80	76	72	68	88
	57802	4.27	50	102	97	87	83	79	75	71	68	87
736	157563	0.00	100	113	117	107	100	97	95	88	80	106
	133928	2.96	85	112	117	105	99	96	92	86	79	105
	110294	5.79	70	109	114	101	95	91	87	83	78	101
	94538	7.30	60	106	111	98	92	88	84	80	76	98
	78781	7.94	50	105	110	97	91	88	84	80	76	97

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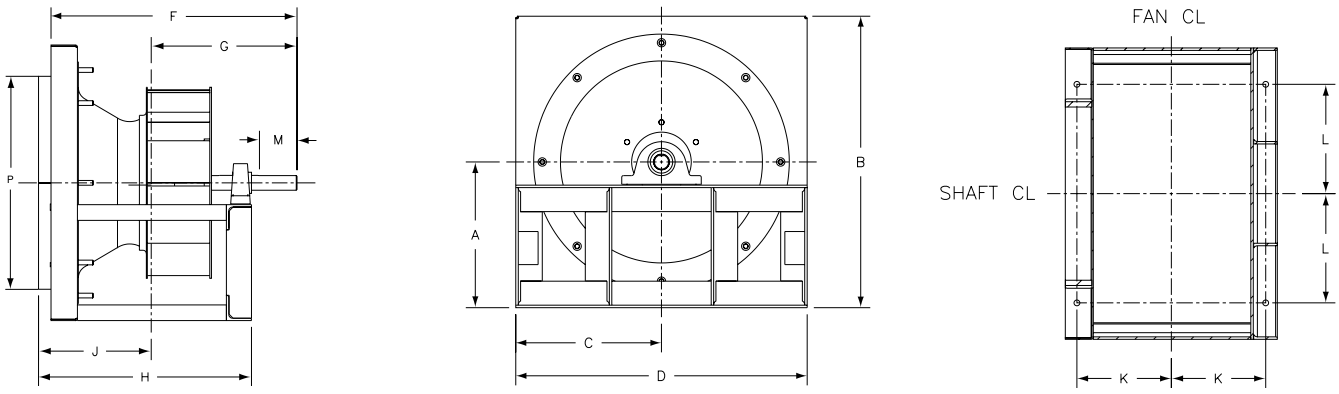
DIMENSIONAL DATA - ARR. 3H



DIMENSIONS FOR ARRANGEMENT 3H														Shaft Diameter	Est. Unit Wt.
Model Size	Class	A	B	C	D	F	G	H	J	K	L	M	P		
8815	CI1	11.00	22.00	11.00	22.00	19.64	11.64	17.00	9.00	7.13	8.25	3.00	17.00	1.1875	93
8815	CI2	11.00	22.00	11.00	22.00	19.75	11.75	17.00	9.00	7.13	8.25	3.00	17.00	1.4375	100
8816	CI1	12.00	24.00	12.00	24.00	21.33	12.83	18.25	9.50	7.63	8.75	3.00	19.00	1.1875	106
8816	CI2	12.00	24.00	12.00	24.00	22.52	14.02	18.43	9.68	7.63	8.75	4.50	19.00	1.6875	123
8818	CI1	13.00	26.00	13.00	26.00	23.05	13.80	20.00	10.75	8.38	9.63	3.50	20.88	1.4375	125
8818	CI2	13.00	26.00	13.00	26.00	23.87	14.62	20.00	10.75	8.38	9.63	4.50	20.88	1.6875	140
8820	CI1	14.50	29.00	14.50	29.00	25.19	15.31	21.25	11.38	9.00	10.63	3.50	22.56	1.4375	152
8820	CI2	14.50	29.00	14.50	29.00	25.00	15.13	21.25	11.37	9.00	10.63	4.50	22.56	1.6875	168
8822	CI1	16.00	32.00	16.00	32.00	27.30	16.55	23.01	12.25	9.88	11.75	4.00	24.84	1.6875	186
8822	CI2	16.00	32.00	16.00	32.00	27.62	16.87	23.01	12.26	9.88	11.75	4.50	24.84	1.6875	208
8824	CI1	17.00	34.00	17.00	34.00	29.82	18.19	24.75	13.13	10.75	12.88	4.50	27.31	1.6875	233
8824	CI2	17.00	34.00	17.00	34.00	29.82	18.19	24.75	13.12	10.75	12.88	4.50	27.31	1.6875	245
8827	CI1	19.00	38.00	19.00	38.00	31.63	19.01	26.75	14.13	11.75	14.13	4.50	30.31	1.6875	256
8827	CI2	19.00	38.00	19.00	38.00	31.63	19.01	26.75	14.13	11.75	14.13	4.50	30.31	1.6875	270
8830	CI1	21.00	42.00	21.00	42.00	36.43	21.18	32.00	16.75	14.13	15.88	4.50	32.63	1.6875	357
8830	CI2	21.00	42.00	21.00	42.00	36.96	21.71	32.00	16.74	14.13	15.88	5.00	32.63	1.9375	388
8833	CI1	23.00	46.00	23.00	46.00	37.76	22.26	32.50	17.00	14.38	17.38	5.00	35.88	1.9375	405
8833	CI2	23.00	46.00	23.00	46.00	38.37	22.87	32.50	16.99	14.38	17.38	4.50	35.88	2.1875	442
8837	CI1	25.50	51.00	25.50	51.00	40.63	23.75	35.75	18.88	15.75	18.88	5.00	39.81	1.9375	483
8837	CI2	25.50	51.00	25.50	51.00	41.50	24.62	35.75	18.88	15.75	18.88	4.50	39.81	2.1875	525
8840	CI1	28.00	56.00	28.00	56.00	44.13	25.26	39.25	20.38	17.50	20.88	5.00	44.56	2.4375	671
8840	CI2	28.00	56.00	28.00	56.00	45.01	26.13	39.25	20.37	17.50	20.88	5.00	44.56	2.6875	731
8845	CI1	31.00	62.00	31.00	62.00	47.94	27.44	43.00	22.50	19.13	22.88	5.50	48.75	2.4375	762
8845	CI2	31.00	62.00	31.00	62.00	47.69	27.19	43.00	22.50	19.13	22.88	5.50	48.75	2.9375	843
8849	CI1	34.00	68.00	34.00	68.00	52.51	30.26	46.50	24.25	20.88	25.38	6.00	53.44	2.4375	930
8849	CI2	34.00	68.00	34.00	68.00	53.13	30.88	46.50	24.25	20.88	25.37	5.50	53.44	3.4375	1115
8854	CI1	38.00	76.00	38.00	76.00	58.88	33.51	51.75	26.38	23.50	27.63	6.00	59.22	2.9375	1238
8854	CI2	38.00	76.00	38.00	76.00	59.13	33.76	51.75	26.37	23.50	27.63	6.00	59.22	3.4375	1379
8860	CI1	40.00	80.00	40.00	80.00	64.07	36.45	56.25	28.63	25.75	29.13	6.50	64.93	3.4375	1469
8860	CI2	40.00	80.00	40.00	80.00	64.07	36.45	56.25	28.62	25.75	29.13	6.50	64.93	3.4375	1598
8866	CI1	42.00	84.00	42.00	84.00	68.19	38.19	61.00	31.00	28.13	30.62	6.50	71.00	3.4375	1843
8866	CI2	42.00	84.00	42.00	84.00	71.38	40.38	63.62	32.62	29.13	30.62	6.50	71.00	3.9375	2436
8873	CI1	46.00	92.00	46.00	92.00	78.07	44.57	69.63	36.13	31.63	33.13	7.50	78.50	3.9375	2623
8873	CI2	46.00	92.00	46.00	92.00	77.82	44.31	69.87	36.38	31.63	33.13	7.50	78.50	4.4375	2936

Typical drawings are for dimensional purposes only and are correct within limits suitable for normal installation requirements. They do not necessarily show actual construction. Dimensions are shown in inches.

CENTRIFUGAL EXHAUSTERS

CEILING AND CABINET EXHAUSTERS

IN-LINE CENTRIFUGAL FANS

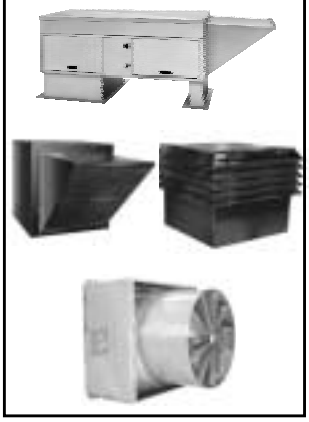
IN-LINE AXIAL FANS

PROPELLER ROOF FANS

PROPELLER WALL FANS

UTILITY BLOWERS

SUPPLY AIR FANS



ROOF VENTS

PLENUM FANS

BACKWARD INCLINED/AIRFOIL CENTRIFUGAL FANS

CENTRIFUGAL INDUSTRIAL EXHAUSTERS

LIMITED WARRANTY Acme Engineering and Manufacturing Corporation extends this limited warranty to the original buyer and warrants that products supplied by the Company shall be free from original defects in workmanship and materials for two years from date of shipment (except for Acme's exclusive duplex split pillow block bearings and shaft 5 years from shipment, belts one year from shipment, and polyethylene tubing at 90 days from shipping), provided same have been properly handled, stored, installed, serviced, maintained and operated. Refer to Form MS149 for complete limited warranty terms and conditions.

WARNING Acme products are designed and manufactured to provide reliable performance but they are not guaranteed to be 100% free of defects. Even reliable products will experience occasional failures and this possibility should be recognized by the User. If these products are used in a life support ventilation system where failure could result in loss or injury, the User should provide adequate back-up ventilation, supplementary natural ventilation or failure alarm system, or acknowledge willingness to accept the risk of such loss or injury.

WARNING DO NOT use in HAZARDOUS ENVIRONMENTS where fan's electrical system could provide ignition to combustible or flammable materials unless unit is specifically built for hazardous environments.

CAUTION Guards must be installed when fan is within reach of personnel or within seven (7) feet (2.134 m) of working level or when deemed advisable for safety.

DISCLAIMER The Company has made a diligent effort to illustrate and describe the products in this literature accurately; however, such illustrations and descriptions are for the sole purpose of identification, and do not express or imply a warranty that the products are merchantable, or fit for a particular purpose, or that the products will necessarily conform to the illustrations or descriptions or dimension.

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