

USM SERIES

A Backwardly Inclined Centrifugal Fan Designed for Commercial and Industrial Applications



U.S. FAN
INTERNATIONAL

USC84A

DESIGN FEATURES

General

Series USM Industrial Fans have been carefully designed to meet most demanding Industrial requirements. The 3 types of construction are: Series USM for most Industrial Applications, Series USMI for more demanding heavy duty applications, and Series USMH for High Pressure applications, up to 38" SP (9438 Pa), Temperatures to 900°F (482°C) and Volumes to 92,000 CFM (43.42 m³/s).

Efficiency

The wide variety of wheels along with carefully designed housings generate a highly efficient design that can be closely matched to many Industrial requirements.

Typical Construction Features For Series USM

Four Wheel Types. . . . general material handling, general material handling with rims for improved strength, fibrous material handling and general air handling.

Highest Efficiency . . . provides lowest continuous operating cost.

Standard Inlet Connections . . . inlets accommodate standard sheet metal piping.

Temperatures To 300°F (149°C) - Optional To 800°F (427°C)

Inlet Sizes From 5" - 49" (127 mm - 1245 mm)
Wheel Sizes From 8 5/8" - 85" (219 mm - 2159 mm)

Streamlined Inlets . . . provide full air and material flow into wheel.

Stable Performance . . . rising pressure curve provides stable performance.

Bearing Life . . . L10 40,000 hours (Average Life 200,000 hours) based upon operating fan speed and normal operation. Optional to L10 80,000 hours.

Balanced Wheels . . . statically and dynamically balanced, insure smooth operation.

Ruggedly Built . . . designed for trouble-free continuous duty.

Arrangements 1, 4, 8, 9 and 10

Extra Heavy Fans . . . Fans are available with three levels of construction. The standard construction (USM) will accept tip speeds up to 15,000 FPM (76.20 m/s) at standard conditions. The intermediate (USMI) is rated to

17,000 FPM (86.36 m/s) and the high pressure (USMH) units can operate up to 22,000 FPM (111.8 m/s).

Housings . . . Heavy sheet steel construction ruggedly braced with steel angles. The scroll is continuously welded to the side sheets for strength, rigidity and durability.

Bearings . . . Heavy duty, grease lubricated, pillow block, self-aligning anti-friction bearings are standard.

High temperature fans are supplied with high temperature grease lubricated anti-friction bearings and cooling wheel as standard.

Convertibility. . . . Fans through Sizes 5-21 are rotatable as to direction of discharge (in 90° increments); identical side sheets allow housing to be reversed for a change of wheel rotation when using Open (M) and Rim Type (MR) Material Handling Wheels. Sizes 23-49 have fixed discharge available in 45° increments.

Supports . . . A heavy steel base supports the large, carefully ground shaft and bearings in Arrangement 1 fans and also the motor in the case of Arrangement 4, 8, 9, and 10 fans. An optional channel bearing support can be furnished for sizes 41-49. This option requires a concrete base by others.



ARRANGEMENT 9
With Belt Guard

ARRANGEMENTS

... For V-Belt And Direct Drive

ARRANGEMENT 1
With Top Horizontal
Discharge



V-Belt-Drive (Arrangement 1)

Arrangement 1 consists of a housing, wheel and a base with two bearings on the power side. The fan wheel is overhung on the fan shaft. The fan shaft extends over the base at the outboard bearing end and is keyed for mounting a sheave or a pulley. The motor is mounted separate of the unit, normally on a unitary base on the floor in accordance with AMCA positions W, X, Y, and Z. The standard design temperature is 300°F (149°C) with optional design temperatures up to 800°F (427°C).



ARRANGEMENT 9
With Upblast
Discharge

V-Belt Drive (Arrangement 9)

Arrangement 9 is a belt-driven compact arrangement and consists of a housing, wheel and a base. The base supports two bearings plus a motor slide base on the side of the fan base for mounting a drive-motor. Fan, motor and V-belt drive in this arrangement make a complete unit. Motors can be mounted on either side of the bearing base. The standard design temperature is 300°F (149°C) with optional design temperatures up to 800°F (427°C).

ARRANGEMENT 10
With Top Horizontal
Discharge



V-Belt Drive (Arrangement 10)

Arrangement 10 is a belt-driven extremely compact arrangement providing space savings and motor protection. It consists of a housing, wheel and a motor base. The base supports two bearings and the motor which is mounted on an adjustable base located between the vertical framework. A weatherhood is available making it ideal for outside applications. The standard design temperature is 300°F (149°C) with optional design temperatures to 600°F (316°C). Maximum gas temperature is limited to 600°F (316°C).

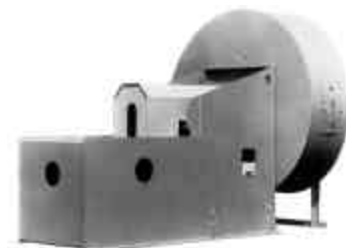


ARRANGEMENT 4
Clockwise
Downblast Discharge
With Motor Weather Cover

Direct Drive (Arrangement 4)

Arrangement 4 is made up of a housing and sub-base for mounting a motor. The fan wheel is overhung on the standard motor shaft extension. Ball bearing motors are employed to offset end thrust. Maximum gas temperature is limited to 180°F (82°C). Note: Special motor shaft extensions are required for M and MR wheels.

ARRANGEMENT 8
With Downblast
Discharge
(motor not pictured)



Direct Drive (Arrangement 8)

Arrangement 8 consists of a housing and extended bearing base to accommodate a motor. The motor is directly connected to the fan shaft by a flexible coupling. This arrangement provides for a rigid one piece construction for maintaining alignment when incorporating a unitary base with or without isolators.

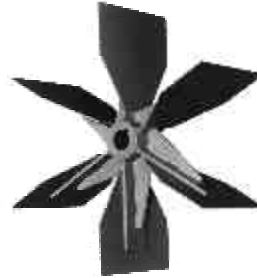
... For Dusts, Granular Materials, Long Fibers, Air and Fumes

USMM Standard Open Material Handling Wheels

Suitable for most industrial requirements. It may be applied to grinding and buffing wheel and abrasive dust exhaust systems, conveying all types of granular materials, chips and sawdust. It can also be used for fume exhaust systems, high temperature air handling and induced draft.

The heavy radial blades with steel plate spiders and blade supports are welded to a steel hub. The three larger sizes employ double hub construction to insure rigidity across the full blade width.

USMMH fans are not suitable for material handling due to higher running speeds.



Open Type
Sizes 05M to 49M

USMMR Rim Type Material Handling Wheel

For applications similar to those utilizing the USMM wheel. End rings are added for additional strength and improved performance.

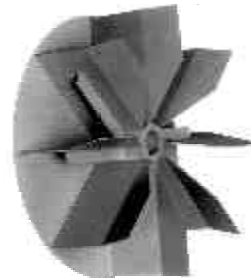


Rim Type
Sizes 05MR to 49MR

USMMB Backplate Material Handling Wheel

Designed particularly for handling long, fibrous or stringy materials such as paper trim, rags, long wood shavings and alfalfa. In addition, it can handle the same materials as the Standard Open Material Handling Wheel with higher efficiency and volumetric capacity.

Series 5MB through 21MB have eight radial blades, each with a steel back-up rib welded to the heavy backplate and the steel hub. The blades of the larger sizes are further stiffened by a secondary back-up blade. Both are welded to the wheel backplate and hub. The inlet edges of the blades are bent forward for increased strength and higher volumetric capacity. Special construction along with hard surfacing is available for paper handling fans.



Sizes 05MB to 49MB

USMA Air Handling Wheel

Designed for handling clean air, fumes, some contaminated air and high temperature air where highest efficiency and lowest operating costs are desirable.

It has flat backwardly inclined blades welded to a streamlined sideplate and backplate. This design provides a high mechanical efficiency over a broad volume range.

All material handling wheels have flat blade surfaces, a highly desirable feature for industrial applications. Flat blades are easy to clean and reduces material deposit or build-up. While the blades are made of heavy steel plate, continual exposure to abrasive materials may cause blade wear. All wheels are readily removable through the sides of the housing.

Sizes 05A to 49A



Industrial Fan

SERIES USM OPTIONAL ACCESSORIES

■ Flanged Inlet And Outlet

Used for applications where tight bolted duct connection is required and for vane control or outlet damper connections.

■ Companion Flanges

Angle Flange designed for bolting to a flanged fan outlet or inlet.

■ Access Door

Allows access to housing interior and wheel for inspection or cleaning.

Standard: Flush-type door.

Hinged & Latched: Similar to standard with one end hinged to the housing.

Raised: Door extends 4 $\frac{1}{2}$ " (114 mm) beyond housing scroll to allow for insulation (applied by others).

■ Weather Cover Arrangement 10 (only)

Protects the bearings, shaft, motor and belt drive from direct exposure to weather. When a weather cover is used, shaft, bearing and belt guards are not necessary.

■ Drain Connection

Allows moisture or liquids to drain from housing. Consists of one-half pipe coupling welded to lowest part of fan scroll.

■ Guards - Shaft, Bearing and Belt

Provides personnel protection. Consists of solid sheet or expanded metal covering. All guards meet OSHA requirements.

■ Coupling and Coupling Guards

Used on direct connected Arrangement 8 fans.

■ Shaft Seal

Standard design shaft seal consists of a flat, non-asbestos type gasket material secured by a flat steel retaining plate to the fan housing. Standard shaft seals are designed to reduce but not eliminate the amount of air leakage past the shaft. Consult factory when air tight shaft seal designs are required.

■ Special Coatings

Applications involving corrosive fumes require special construction. The large flat surfaces with a minimum of corners make these wheels ideal for the application of protective coatings with a variety of synthetic protective paints, plastic coatings or rubber coatings. Many protective paints or coatings are available which may be air dried or oven cured. The coating thickness will vary and the fan construction will be suitably modified.

■ Special Metals

Special metals such as stainless steel, monel and aluminum for specialized applications are available.

■ Spark-Resistant Construction AMCA A, B, C

Explosive gases require special construction depending upon the hazard. Components of the fan must be built of non-ferrous metals to meet the AMCA Standards of spark-resistant construction as defined below.

Type A...all parts of fan exposed to the airstream to be built of non-ferrous materials. Maximum design temperature is 150°F (66°C).

Type B...non-ferrous wheel and rubbing ring where shaft projects through the fan housing. Maximum design temperature is 150°F (66°C).

Type C...non-ferrous inserts to prevent rubbing of two ferrous parts due to shift of shaft wheel. Maximum design temperature is 600°F (316°C).

Check factory for availability.

■ Extended Life Bearings

L₁₀ life of 80,000 hours minimum. Average life of 400,000 hours.

■ Split Pillow Block Bearings

Allows easier servicing with a L₁₀ life of 80,000 hours minimum.

■ Outlet Dampers

Control dampers with opposed or parallel bladed construction for mounting to the discharge. Backdraft dampers for discharge mounting.

■ Inlet Vane (External Only)

Provides energy consumption savings by creating a pre-swirl to the air entering the fan wheel while reducing the CFM output.

■ Extended Lube Fittings

A flexible tubing, extending through the shaft and bearing guard, includes pressure relief fittings.

■ Inlet And Outlet Screens

A heavy gauge wire mesh covering the inlet and/or outlet.

■ Hi-Temp Construction (next page)

■ Inlet Cones and Screen

Required on fans where no duct is used on the fan inlet.

■ Inlet Boxes

Can be furnished for locations where inlet space is limited.

■ Special Construction

Narrow width wheels, housing modifications, extensions and severe duty construction.

■ Split Housings

Horizontal Split, "Pie" or "Three Way" Split are available.

■ Unitary Bases With & Without Isolation

SELECTION AND APPLICATION

High Temperature Applications

Standard, Series I and H fans can be used for temperatures up to 300°F (149°C). Modified fans are available for temperatures from 301°F (149°C) through 800°F (427°C). High temperature construction employ cooling wheels and guards, precision fitted, high temperature grease lubricated, anti-friction bearings for all temperatures above 300°F (149°C). Cooling wheels fitted to the fan shaft between the fan housing and inner bearing dissipate the heat conducted along the fan shaft.

Please see Table 2 for the temperature/RPM correction factors that must be applied to the maximum RPM levels for standard carbon steel fans listed in Table 1 below and at the top of each page of performance data.

High temperature fans are ideal for industrial ovens, induced draft or other applications where temperature is a factor.



Table 1

USM SERIES MAXIMUM OPERATING SPEED FOR TEMPERATURES -20°/300°F (-29°/149°C)										
FAN SIZE	WHL. DIA.	M			MR		MB		A	
		USMM	USMMI	USMMH	USMMR	USMMRI	USMMB	USMMBI	USMA	USMAI
5	8.63	6548	*6850	NA	6548	*6850	6548	*6850	6548	*6850
7	12.25	4677	5301	NA	4677	5301	4820	5202	4677	5396
9	15.50	3697	4189	NA	3697	4189	3700	4111	3697	4264
11	19.13	2996	3395	4394	2996	3395	3000	3332	2996	3456
13	22.63	2532	2870	3714	2532	2870	2540	2816	2533	2923
15	26.13	2193	2486	3217	2193	2486	2200	2440	2194	2531
17	29.63	1934	2192	2837	1934	2192	1930	2150	1934	2230
19	33.00	1736	1968	2546	1736	1968	1740	1930	1736	2004
21	36.50	1570	1779	2302	1570	1779	1570	1746	1570	1810
23	40.00	1432	1623	2101	1432	1623	1433	1593	1433	1654
26	45.13	1270	1439	1862	1270	1439	1275	1404	1275	1458
29	50.50	1135	1286	1664	1135	1286	1135	1261	1135	1304
33	57.50	996	1129	1461	996	1129	998	1106	998	1145
37	64.38	890	1009	1305	890	1009	890	986	890	1023
41	71.25	804	911	1179	804	911	804	894	804	924
45	78.25	732	830	NA	732	830	732	815	732	842
49	85.25	672	762	NA	672	762	673	749	673	773

*Design limited by bearing speed.

Table 2

SPEED DERATING FACTORS Speed Derating Factor (SDF) Equation: RPM = RPM (-20°/300°F) (-29°/149°C) x SDF	
TEMPERATURE RANGES	SDF
-20°F TO 150°F	1.00
151°F TO 200°F	.98
201°F TO 300°F	.96
301°F TO 400°F	.93
401°F TO 500°F	.91
501°F TO 600°F	.88
601°F TO 700°F	.83
701°F TO 800°F	.79
801°F and up	Contact factory for availability

When operating fans at elevated temperatures, determine the maximum fan speed allowed by multiplying the maximum speed shown in Table 1 times the SDF factor above.

Derate factors for standard steel construction. See application data or consult the factory for other materials.

Fan Starting Requirements

The driving motor must be capable of starting the fan from rest and accelerating it to operating speed with a minimum of disturbance to the electrical system and without overheating the motor. **A minimum of a one-half horsepower motor is recommended to start sizes 05-17 fans even though the brake horsepower required may be much smaller than one-half horsepower.** This is necessary for the following reasons:

1. **Inertia:** Series USM fans are rugged designs with heavy duty wheels, shafts and bearings. In order to bring these fans up to speed in an acceptable time frame, the motor must have a capability consistent with the fan design.
2. **Bearing Seal Resistance:** Bearings are heavy duty and are sometimes supplied with auxiliary seals. When new, these items have more resistance than after they have been run for a

while. The motor must have adequate power to overcome this added resistance when the equipment is new.

3. **V-Belt Drive Losses:** V-belt drive losses for small fans can be significant compared to the required brake horsepower. The motor must be capable of overcoming these losses.
4. **Leakage:** Small fans handle relatively small quantities of air, and if not carefully installed, leakage can sometimes be a significant percentage of the volume required. This leakage can result in the fan operating at higher flow rates than the design flow, and since radial bladed fans have continually rising horsepower characteristics, the ½ horsepower motor provides added assurance that the motor will not overheat if some leakage does occur.

Industrial Fan

SELECTION AND APPLICATION

U.S. Fan Industrial Fans are heavy duty centrifugal units, ruggedly designed and constructed to meet industrial requirements. They play a vital role in modern manufacturing processes by making a significant contribution to quality control, elimination of waste, smooth production flow and lower operating costs. Careful selection of the correct fan type is essential for satisfactory performance.

Wheel Selection

Series USM Industrial Fans offer a choice of four basic wheel designs and are suited to the various applications of handling air, gases, dust, materials . . . and for the recirculation or exhaust requirements of industrial ovens and drying operations. A full description of these wheels, their functions and construction are on Page 5.

Sample Fan Selections

Example #1

Select a fan for a dust collection system which will deliver 29,960 CFM (14.14 m³/s) at 6" wg (1490 Pa) static pressure and operate at 70°F (21°C) and sea level (760 mm Hg).

Selection:

1. Determine the applicable wheel type from Page 5. For this example an M type wheel is chosen.
2. Since this example uses gas at 70°F (21°C) and sea level (760 mm Hg), the equivalent static pressure is 6" wg (1490 Pa) and is read directly from the M Performance tables (pages 10-26).
3. From Page 23, a size 37M will operate at 570 RPM and will require 50.62 HP (37.75 kW).

Therefore, a size 37M fan will deliver 29,960 CFM (14.14 m³/s) at 6" wg (1490 Pa) static pressure while operating at 570 RPM and requiring 50.62 HP (37.75 kW) at standard conditions.

Example #2

Select a fan for a drying system which will deliver 29,960 CFM (14.14 m³/s) at 6" wg (1490 Pa) static pressure and operate at 500°F (260°C) and 2500 feet (762 m) elevation.

Selection:

1. Determine the applicable wheel type from Page 5. For this example an M type wheel is chosen.
2. This example uses gas at elevated temperature and altitude. In order to use the catalog, these must be converted to standard conditions.

From the table below, at 500°F (260°C) and 2500 feet (760 m) elevation, the air density ratio is 1.99.
3. The equivalent static pressure is 6" wg (1490 Pa) x 1.99 or 11.94" wg (2965 Pa). Round this figure to 12" wg (2980 Pa) for convenience. Therefore, select the fan for 29,960 CFM (14.14 m³/s) at 12" Wg. (2980 Pa) from the catalog.
4. From Page 23, a size 37M will operate at 747 RPM and will require 91.0 HP (67.86 kW) at standard conditions. The fan will actually operate at 747 RPM but will deliver 29,960 CFM (14.14 m³/s) at 6" Wg [12 ÷ 1.99] (1490 Pa) and will require 45.7 HP [91 ÷ 1.99] (34.0 kW) at 500°F (260°C) and 2500 feet (762 m) elevation. Consideration must be given to the fan operating at other densities such as during start-up.
5. Determine the maximum safe fan speed from Table 1 on Page 7. Table 1 provides safe fan speeds for temperatures up to 300°F (149°C). However, since the fan selected is to operate at 500°F (260°C), a correction factor from Table 2 must be applied to the speeds in Table 1. This factor is .862.

Safe 37M fan speed = 890 x .862 = 767 RPM. This is larger than the fan speed required to meet the rating specified (767 vs. 747 RPM) and therefore a 37M is an acceptable selection. (If the safe speed was not larger than the rated speed, an 37I or 37H would have to be chosen.)

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.											AIR GAS TEMP °F	Altitude In Ft. Above Sea Level With Corresponding Barometric Pressure In Inches Hg.										
	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000		0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
	29.92	28.86	27.82	26.81	25.84	24.89	23.98	23.09	22.22	21.38	20.58		29.92	28.86	27.82	26.81	25.84	24.89	23.98	23.09	22.22	21.38	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	350	1.53	1.59	1.65	1.71	1.77	1.84	1.91	1.98	2.06	2.14	2.22
0	0.87	0.91	0.94	0.97	1.01	1.04	1.08	1.13	1.17	1.22	1.26	400	1.62	1.68	1.75	1.81	1.88	1.95	2.03	2.10	2.18	2.27	2.36
50	0.96	1.00	1.04	1.07	1.11	1.16	1.20	1.25	1.30	1.35	1.40	450	1.72	1.78	1.85	1.92	1.99	2.07	2.15	2.23	2.31	2.40	2.49
70	1.00	1.04	1.08	1.12	1.16	1.20	1.25	1.30	1.35	1.40	1.45	500	1.81	1.88	1.95	2.02	2.10	2.18	2.26	2.35	2.44	2.54	2.63
100	1.06	1.10	1.14	1.18	1.22	1.27	1.32	1.37	1.42	1.48	1.54	550	1.91	1.98	2.05	2.13	2.20	2.29	2.38	2.47	2.56	2.67	2.77
150	1.15	1.19	1.24	1.30	1.33	1.38	1.44	1.49	1.55	1.61	1.67	600	2.00	2.08	2.15	2.23	2.32	2.40	2.50	2.59	2.69	2.84	2.91
200	1.25	1.29	1.34	1.39	1.44	1.50	1.56	1.61	1.68	1.75	1.81	650	2.10	2.17	2.25	2.34	2.43	2.52	2.62	2.72	2.83	2.93	3.05
250	1.34	1.39	1.44	1.50	1.55	1.61	1.67	1.74	1.80	1.88	1.95	700	2.19	2.27	2.35	2.44	2.53	2.63	2.73	2.83	2.94	3.07	3.18
300	1.44	1.49	1.54	1.60	1.66	1.72	1.79	1.86	1.93	2.01	2.08	800	2.38	2.46	2.55	2.65	2.75	2.86	2.97	3.08	3.20	3.32	3.45
AIR GAS TEMP °C	Altitude in Meters Above Sea Level With Corresponding Barometric Pressure in Millimeters Hg.											AIR GAS TEMP °C	Altitude in Meters Above Sea Level With Corresponding Barometric Pressure in Millimeters Hg.										
	0	250	500	750	1000	1250	1500	1750	2000	2500	3000		0	250	500	750	1000	1250	1500	1750	2000	2500	3000
	760	738	717	697	677	657	639	620	603	569	536		760	738	717	697	677	657	639	620	603	569	536
0	0.93	0.95	0.98	1.01	1.04	1.08	1.10	1.14	1.16	1.23	1.32	250	1.79	1.82	1.89	1.92	2.00	2.04	2.13	2.17	2.22	2.38	2.50
21	1.00	1.03	1.05	1.09	1.12	1.15	1.19	1.22	1.27	1.33	1.41	275	1.85	1.92	1.96	2.04	2.08	2.13	2.22	2.27	2.33	2.50	2.63
50	1.10	1.12	1.16	1.19	1.23	1.27	1.30	1.33	1.39	1.47	1.56	300	1.96	2.00	2.04	2.13	2.17	2.22	2.33	2.38	2.44	2.63	2.78
75	1.18	1.22	1.25	1.28	1.33	1.37	1.41	1.45	1.49	1.59	1.67	325	2.04	2.08	2.13	2.22	2.27	2.33	2.44	2.50	2.56	2.70	2.86
100	1.27	1.30	1.33	1.39	1.43	1.47	1.52	1.54	1.59	1.69	1.79	350	2.13	2.17	2.22	2.33	2.38	2.44	2.50	2.56	2.63	2.86	3.03
125	1.35	1.39	1.43	1.47	1.52	1.56	1.61	1.67	1.69	1.82	1.92	375	2.17	2.27	2.33	2.38	2.44	2.56	2.63	2.70	2.78	2.94	3.13
150	1.43	1.47	1.52	1.56	1.61	1.67	1.69	1.75	1.82	1.92	2.04	400	2.27	2.33	2.44	2.50	2.56	2.63	2.70	2.78	2.86	3.03	3.23
175	1.52	1.56	1.61	1.67	1.69	1.75	1.82	1.85	1.92	2.04	2.17	425	2.38	2.44	2.50	2.56	2.63	2.70	2.86	2.94	3.03	3.13	3.33
200	1.61	1.64	1.69	1.75	1.79	1.85	1.92	1.96	2.04	2.13	2.27	450	2.44	2.50	2.63	2.70	2.78	2.86	2.94	3.03	3.13	3.23	3.45
225	1.69	1.72	1.79	1.85	1.89	1.96	2.00	2.08	2.13	2.27	2.38	475	2.56	2.63	2.70	2.78	2.86	2.94	3.03	3.13	3.23	3.45	3.57

	CONVERSION TABLE			
	I-P Equivalents of Metric Units		Metric Equivalents of I-P Units	
Area	1 m^2 (square meter)	= 10.764 ft^2	1 ft^2 (square foot)	= .09290 m^2
Density	1 kg/m^3	= .062428 lbm/ft^3	1 lbm/ft^3	= 16.018 kg/m^3
	1 g/cm^3	= 62.428 lbm/ft^3	1 lbm/ft^3	= .016018 g/cm^3
Energy	1 J (Joule) or N-m (Newton-meter)	= .73756 ft-lb	1 ft-lb (foot pound)	= 1.3558 N-m
	1 kcal (kilo calorie)	= 3.9683 Btu	1 Btu (British thermal unit)	= 252 cal
Flow Rate (Volume)	1 m^3/s (cubic meter per second) CMS	= 2118.9 CFM	1 CFM (Cu. ft/min)	= .00047195 m^3/s
	1 m^3/min (cubic meter per minute) CMM	= 35.315 CFM	1 CFM	= .02832 m^3/min
	1 m^3/hr (cubic meter per hour) CMH	= .58858 CFM	1 CFM	= 1.6990 m^3/hr
	1 l/s (liter per second)	= 2.1189 CFM	1 CFM	= .47195 l/s
Force	1 N (Newton)	= .22481 lb	1 lb (pound)	= 4.4482 N
	1 kp (kilopond)	= 2.2046 lb	1 lb	= .45359 kp
Gas Constant	1 J/kg-K (Joule per kilogram Kelvin)	= .18586 ft-lb/lbm- °R	1 ft-lb/lbm- °R*	= 5.3803 J/kg-K
	1 m^2/s^2 -K (sq. mtr per sec. sq. Kelvin)	= 5.9800 ft^2/s^2 - °R	1 ft^2/s^2 - °R**	= .16723 m^2/s^2 -K
	1 cal/g-°C (calorie per gram °C)	= 4186.8 J/kg-K	1 Btu/lbm - °R	= 1.0000 cal/g- °C
			*(foot-pound per pound mass degree Rankine)	
Length	1 mm (millimeter)	= .03937 inch	1" (inch)	= 25.4 mm
	1 cm (centimeter)	= .39370 inch	1"	= 2.54 cm
	1 m (meter)	= 3.2808 ft	1 ft (foot)	= .30480 m
	1 km (kilometer)	= .62137 mi	1 mi (mile)	= 1.6093 km
Mass	1 kg (kilogram)	= 2.2046 lbm	1 lbm (pound mass)	= .45359 kg
Power	1 W (Watt)	= .00134 HP	1 hp (horsepower)	= .7457 kW
	1 kW (kilo-Watt)	= 1.3410 hp	1 hp	= 745.70 W
	1 mhp (metric horsepower)	= .98632 hp	1 hp	= 1.0139 mhp
Pressure or Stress	1 N/m ² (Newton per m ²) or Pa (Pascal)	= .0040264" wg	1" wg (inches water gauge)	= 248.66 Pa or N/m ²
	1 mm Hg or torr (mm Mercury)	= .53616" wg	1" wg	= 1.8651 mm Hg or torr
	1 kPa (kilo Pascal)	= .1450 psi	1 psi (pounds per sq. inch)	= 6894.8 Pa or N/m ²
	1 atm (atmosphere)	= 29.921" Hg	1" Hg (inch Mercury)	= 3386.4 Pa or N/m ²
	(mm Hg at 0°C or 68°F)		(inches wg at 68°F or 20°C)	
	1 oz/in ²	= 1.732" wg	1" wg	= 0.5774 oz/in ²
Temperature	For temperature intervals and rise,		For temperature intervals and rise,	
	1°C (degree Celsius)	= 9/5 °F	1°F (degree Fahrenheit)	= 5/9 °C
	For temperature in °F (Fahrenheit)	= $t_C \times 9/5 + 32$	For temperature in °C	= $(t_F - 32) \times 5/9$
Torque	1 N-m (Newton meter)	= 8.8507 lb-in.	1 lb-in. (pound inch)	= .11298 N-m
	1 N-m (Newton-meter)	= .73756 lb-ft.	1 lb-ft. (pound foot)	= 1.3558 N-m
Velocity & Speed	1 m/s	= 196.5 fpm	1 fpm (feet per minute)	= .00508 m/s
	1 km/hr (kilometer per hour)	= .62137 mph	1 mph (mile per hour)	= 1.6093 km/hr
	1 rps (revolution per second)	= .016667 rpm	1 rpm (revolution per minute)	= 60 rps
Viscosity	1 cP (Centipoise)	= .00067197 lbm/ft-s	1 lbm/ft-s (pound/foot second)	= 1488.2 cP

Standard Material Handling Wheel

SIZE 05M

MAXIMUM OPERATING SPEEDS

Wheel Diameter	8.63 inches	219 mm
Wheel Circumference	2.26 feet	.6889 m
Inlet Diameter/Area	5 inches dia./ .136 sq. ft.	127 mm/.0126 m ²
Outlet Size/Area	4.71 x 4.31 inches/ .130 sq. ft.	120 mm x 109 mm/ .0121 m ²
Tip Speed	2.26 x RPM ft./minute	.6889 x RPM m/minute

SIZE 05M	-20° to 150°F -29° to 66°C
STD	6548
I SERIES	6850
H SERIES	NA

VOL CFM	OUT VEL	1/2" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
127	1000	1317	0.02	1720	0.05	2323	0.10														
152	1200	1401	0.03	1783	0.06	2371	0.11	2840	0.17												
178	1400	1492	0.04	1857	0.07	2427	0.13	2884	0.20	3281	0.27										
203	1600	1593	0.05	1938	0.08	2487	0.15	2940	0.22	3325	0.30	3675	0.38	3993	0.46						
229	1800	1699	0.06	2028	0.10	2559	0.17	2996	0.25	3380	0.33	3720	0.42	4035	0.51	4327	0.60				
254	2000	1807	0.08	2119	0.12	2632	0.19	3059	0.28	3436	0.37	3775	0.46	4081	0.56	4368	0.66	4640	0.76	4895	0.86
279	2200	1924	0.10	2221	0.14	2713	0.22	3131	0.31	3492	0.41	3830	0.50	4136	0.61	4418	0.71	4682	0.82	4937	0.93
305	2400	2044	0.12	2325	0.16	2801	0.25	3204	0.35	3564	0.45	3887	0.55	4192	0.66	4473	0.77	4735	0.89	4981	1.00
330	2600	2165	0.14	2431	0.19	2891	0.28	3280	0.38	3636	0.49	3953	0.60	4248	0.72	4529	0.83	4790	0.95	5036	1.08
356	2800	2288	0.17	2539	0.22	2983	0.32	3367	0.43	3709	0.54	4025	0.66	4312	0.78	4585	0.90	4846	1.03	5091	1.15
381	3000	2413	0.20	2656	0.25	3082	0.36	3456	0.47	3785	0.59	4098	0.71	4383	0.84	4647	0.97	4902	1.10	5147	1.24
406	3200	2540	0.24	2774	0.29	3185	0.41	3546	0.52	3872	0.65	4171	0.77	4456	0.91	4719	1.04	4964	1.18	5203	1.32
432	3400	2667	0.28	2893	0.33	3290	0.45	3638	0.58	3961	0.71	4250	0.84	4529	0.98	4791	1.12	5035	1.26	5266	1.41
457	3600	2796	0.32	3015	0.38	3395	0.51	3736	0.64	4051	0.77	4337	0.91	4603	1.05	4864	1.20	5107	1.35	5337	1.50
483	3800	2926	0.37	3137	0.43	3503	0.57	3838	0.70	4142	0.84	4426	0.99	4687	1.13	4937	1.28	5180	1.44	5409	1.60
508	4000	3057	0.42	3261	0.49	3613	0.63	3941	0.77	4233	0.92	4516	1.07	4775	1.22	5015	1.37	5253	1.54	5481	1.70
533	4200	3188	0.48	3386	0.55	3729	0.70	4046	0.85	4334	1.00	4606	1.16	4863	1.32	5102	1.48	5327	1.64	5554	1.81
559	4400	3321	0.54	3512	0.62	3847	0.77	4152	0.93	4436	1.09	4698	1.25	4953	1.42	5190	1.58	5413	1.75	5628	1.92
584	4600	3453	0.61	3639	0.70	3966	0.85	4259	1.02	4540	1.18	4795	1.35	5044	1.52	5279	1.69	5501	1.87	5711	2.04
610	4800	3587	0.69	3767	0.78	4086	0.94	4368	1.11	4644	1.28	4897	1.45	5136	1.63	5369	1.81	5589	1.99	5798	2.17
635	5000	3721	0.77	3895	0.86	4206	1.04	4482	1.21	4750	1.39	5000	1.57	5231	1.75	5460	1.93	5679	2.12	5886	2.31
660	5200	3856	0.86	4025	0.95	4328	1.13	4598	1.31	4856	1.50	5103	1.68	5333	1.87	5552	2.06	5769	2.26	5975	2.45
686	5400	3991	0.96	4155	1.05	4451	1.24	4716	1.43	4964	1.61	5208	1.81	5435	2.00	5648	2.20	5860	2.40	6065	2.60
711	5600	4126	1.06	4286	1.16	4575	1.36	4835	1.55	5073	1.74	5314	1.94	5538	2.14	5749	2.34	5952	2.55	6155	2.76

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
305	2400	5219	1.12	5449	1.24	5668	1.37	5878	1.50												
330	2600	5268	1.20	5490	1.33	5709	1.46	5919	1.59	6120	1.73	6315	1.86	6504	2.00						
356	2800	5323	1.29	5544	1.42	5755	1.55	5960	1.69	6162	1.83	6356	1.98	6544	2.12	6727	2.27				
381	3000	5378	1.37	5599	1.51	5810	1.65	6012	1.80	6206	1.94	6397	2.09	6585	2.24	6767	2.39				
406	3200	5434	1.46	5654	1.61	5865	1.76	6066	1.91	6261	2.06	6448	2.21	6630	2.37	6808	2.52				
432	3400	5490	1.56	5710	1.71	5920	1.87	6121	2.02	6315	2.18	6503	2.34	6684	2.50						
457	3600	5554	1.66	5766	1.81	5976	1.98	6177	2.14	6371	2.30	6557	2.47	6738	2.64						
483	3800	5626	1.76	5832	1.92	6030	2.09	6233	2.26	6426	2.43	6613	2.60	6793	2.78						
508	4000	5697	1.87	5903	2.04	6101	2.21	6290	2.38	6482	2.56	6668	2.74	6849	2.92						
533	4200	5770	1.98	5975	2.16	6172	2.34	6361	2.52	6543	2.70	6725	2.88								
559	4400	5843	2.10	6048	2.28	6244	2.47	6432	2.65	6614	2.84	6789	3.03								
584	4600	5917	2.22	6121	2.41	6316	2.60	6504	2.80	6685	2.99										
610	4800	5996	2.36	6194	2.55	6389	2.75	6576	2.94	6757	3.14										
635	5000	6083	2.50	6272	2.69	6463	2.89	6649	3.10	6829	3.30										
660	5200	6171	2.65	6359	2.85	6539	3.04	6723	3.26												
686	5400	6260	2.81	6446	3.01	6625	3.21	6798	3.42												
711	5600	6349	2.97	6534	3.18	6713	3.39														
737	5800	6439	3.14	6624	3.36	6801	3.58														

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate ■ H - High Pressure ■

The U.S. FAN class range is shown in shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.

For minimum motor size required see "Fan Starting Requirements," page 7.

Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).

Refer to factors on page 9 to convert numbers above to the desired metric units.

MAXIMUM OPERATING SPEEDS

SIZE 07M	-20° to 150°F -29° to 66°C
STD	4677
I SERIES	5301
H SERIES	NA

Wheel Diameter	12.25 inches	311 mm
Wheel Circumference	3.21 feet	.9784 m
Inlet Diameter/Area	7 inches dia./ .253 sq. ft.	178 mm/.0235 m ²
Outlet Size/Area	6.88 x 6.28 inches/.27 sq. ft.	175 mm x 160 mm/.0251 m ²
Tip Speed	3.21 x RPM ft./minute	.9784 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
270	1000	•854	•0.04	•1134	•0.07	1544	0.15	1859	0.24	2129	0.33										
324	1200	899	0.05	1167	0.09	1572	0.18	1887	0.27	2152	0.37	2388	0.48	2604	0.59						
378	1400	950	0.06	1205	0.11	•1601	•0.21	1914	0.31	2180	0.42	2414	0.54	2625	0.66	2822	0.78	3006	0.91	3179	1.05
432	1600	1005	0.08	1249	0.13	1633	0.24	•1943	•0.35	2208	0.48	2441	0.60	2652	0.73	2846	0.87	3027	1.00	3199	1.15
486	1800	1064	0.10	1296	0.16	1669	0.27	1974	0.40	•2236	•0.53	2469	0.67	2680	0.81	2873	0.96	3054	1.10	3223	1.26
540	2000	1128	0.13	1348	0.18	1707	0.31	2006	0.45	2266	0.59	2497	0.74	2707	0.89	2901	1.05	3081	1.21	3250	1.37
594	2200	1193	0.15	1402	0.22	1751	0.35	2042	0.50	2297	0.66	•2526	•0.81	2735	0.97	2929	1.14	3109	1.31	3278	1.48
648	2400	1260	0.19	1461	0.26	1797	0.40	2080	0.56	2331	0.72	2558	0.89	•2765	•1.06	•2957	•1.24	3136	1.42	3305	1.60
702	2600	1329	0.22	1522	0.30	1846	0.45	2121	0.62	2368	0.79	2590	0.97	2796	1.16	2986	1.34	•3164	•1.53	3333	1.73
756	2800	1399	0.27	1585	0.35	1898	0.51	2167	0.69	2406	0.87	2627	1.06	2828	1.25	3018	1.45	3194	1.65	•3361	•1.85
810	3000	1471	0.31	1650	0.40	1951	0.58	2214	0.76	2448	0.95	2664	1.15	2864	1.36	3050	1.56	3226	1.78	3392	1.99
864	3200	1545	0.37	1716	0.46	2008	0.65	2264	0.84	2494	1.04	2703	1.25	2901	1.46	3084	1.68	3258	1.91	3423	2.13
918	3400	1619	0.43	1784	0.53	2067	0.72	2316	0.93	2541	1.14	2746	1.35	2939	1.58	3122	1.81	3292	2.04	3455	2.28
972	3600	1694	0.49	1852	0.60	2127	0.81	2368	1.02	2588	1.24	2792	1.47	2978	1.70	3159	1.94	3329	2.18	3489	2.43
1026	3800	1769	0.57	1922	0.68	2189	0.90	2423	1.12	2640	1.35	2839	1.59	3024	1.83	3197	2.07	3367	2.33	3526	2.59
1080	4000	1846	0.65	1992	0.77	2253	1.00	2481	1.23	2692	1.47	2886	1.72	3070	1.97	3241	2.22	3405	2.48	3564	2.75
1134	4200	1923	0.74	2065	0.86	2318	1.11	2541	1.35	2745	1.60	2937	1.86	3117	2.11	3287	2.38	3446	2.64	3602	2.92
1188	4400	2000	0.84	2138	0.97	2384	1.23	2601	1.48	2800	1.74	2989	2.00	3164	2.27	3333	2.54	3491	2.82	3640	3.10
1242	4600	2078	0.95	2211	1.08	2450	1.35	2663	1.61	2858	1.88	3042	2.16	3215	2.44	3380	2.72	3537	3.01	3686	3.30
1296	4800	2157	1.06	2285	1.20	2518	1.48	2726	1.76	2917	2.04	3095	2.32	3267	2.61	3428	2.90	3584	3.20	3732	3.50
1350	5000	2235	1.19	2360	1.33	2586	1.63	2791	1.92	2977	2.20	3152	2.50	3320	2.80	3479	3.10	3631	3.40	3778	3.71
1404	5200	2314	1.32	2435	1.48	2655	1.78	2856	2.08	3037	2.38	3210	2.68	3373	2.99	3531	3.31	3680	3.62	3825	3.94
1458	5400	2394	1.47	2511	1.63	2725	1.94	2921	2.26	3101	2.57	3270	2.88	3428	3.20	3584	3.52	3732	3.84	3872	4.17
1512	5600	2473	1.63	2587	1.79	2795	2.12	2987	2.44	3165	2.77	3329	3.09	3487	3.42	3637	3.75	3784	4.08	3923	4.42

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
432	1600	3363	1.30	3518	1.45	3666	1.60														
486	1800	3383	1.41	3538	1.57	3686	1.73	3828	1.90	3965	2.07	4097	2.24								
540	2000	3410	1.53	3563	1.70	3708	1.87	3848	2.05	3985	2.23	4116	2.41	4244	2.59	4367	2.78	4486	2.97		
594	2200	3438	1.66	3590	1.84	3735	2.02	3874	2.20	4008	2.39	4137	2.58	4263	2.77	4387	2.97	4506	3.17	4622	3.37
648	2400	3465	1.79	3617	1.98	3762	2.17	3901	2.37	4034	2.56	4163	2.76	4288	2.96	4409	3.17	4526	3.37	4642	3.59
702	2600	3493	1.92	3644	2.12	3789	2.33	3928	2.53	4061	2.74	4190	2.95	4315	3.16	4435	3.38	4552	3.59	4666	3.81
756	2800	3520	2.06	3672	2.27	3816	2.49	3955	2.70	4089	2.92	4217	3.14	4342	3.36	4462	3.59	4579	3.82	4693	4.04
810	3000	•3548	•2.20	3700	2.43	3844	2.65	3983	2.88	4116	3.11	4244	3.34	4369	3.57	4489	3.81	4606	4.04	4719	4.28
864	3200	3580	2.36	•3728	•2.59	•3872	•2.82	4010	3.06	4143	3.30	4272	3.54	4396	3.78	4516	4.03	4633	4.28	4746	4.53
918	3400	3611	2.52	3760	2.75	3902	3.00	•4038	•3.24	4171	3.49	4299	3.74	4423	4.00	4544	4.26	4660	4.52	4773	4.78
972	3600	3643	2.68	3791	2.93	3933	3.18	4069	3.44	•4200	•3.69	•4327	•3.96	4451	4.22	4571	4.49	4687	4.76	4801	5.03
1026	3800	3677	2.85	3823	3.11	3965	3.37	4100	3.64	4231	3.91	4357	4.18	•4479	•4.45	4599	4.73	4715	5.01	4828	5.29
1080	4000	3714	3.02	3858	3.30	3997	3.57	4132	3.85	4262	4.13	4388	4.41	4510	4.69	•4628	•4.97	•4743	•5.26	4856	5.55
1134	4200	3752	3.20	3895	3.49	4032	3.78	4164	4.06	4294	4.35	4420	4.65	4541	4.94	4659	5.23	4773	5.53	•4884	•5.83
1188	4400	3790	3.39	3932	3.69	4069	3.99	4200	4.29	4326	4.59	4451	4.89	4573	5.20	4690	5.50	4804	5.81	4915	6.12
1242	4600	3828	3.59	3970	3.89	4106	4.20	4237	4.51	4363	4.83	4484	5.14	4604	5.46	4722	5.77	4836	6.09	4946	6.41
1296	4800	3872	3.80	4008	4.11	4144	4.43	4274	4.75	4400	5.07	4521	5.40	4638	5.73	4753	6.05	4867	6.38	4978	6.72
1350	5000	3918	4.03	4052	4.34	4182	4.66	4312	4.99	4437	5.33	4558	5.67	4675	6.00	4789	6.34	4899	6.68	5009	7.02
1404	5200	3964	4.26	4097	4.59	4225	4.91	4350	5.24	4475	5.59	4595	5.94	4712	6.29	4826	6.64	4935	6.99	5042	7.34
1458	5400	4011	4.50	4143	4.84	4270	5.18	4392	5.52	4513	5.86	4633	6.22	4750	6.58	4863	6.94	4972	7.31	5079	7.67
1512	5600	4058	4.76	4190	5.11	4316	5.46	4438	5.80	4555	6.15	4671	6.51	4787	6.88	4900	7.26	5010	7.63	5116	8.01
1566	5800	4107	5.02	4236	5.38	4362	5.74	4484	6.10	4601	6.46	4714	6.82	4825	7.19	4938	7.58	5047	7.96	5153	8.35
1620	6000	4158	5.31	4284	5.66	4409	6.04	4530	6.41	4646	6.78	4759	7.15	4868	7.53	4975	7.90	5084	8.30	5191	8.70
1674	6200	4210	5.60	4335	5.97	4456	6.34	4576	6.73	4692	7.11	4805	7.50	4913	7.88	5019	8.26	5122	8.65	5228	9.06

VOL CFM	OUT VEL	20" SP		22" SP		24" SP		26" SP		28" SP		30" SP		32" SP		34" SP		36" SP		38" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
648	2400	4755	3.80	4973	4.24	5180	4.68														
702	2600	4777	4.03	4992	4.48	5200	4.95														
756	2800	4803	4.28	5016	4.74	5220	5.22														
810	3000	4830	4.52	5043	5.01	5246	5.51														
864	3200	4857	4.78	5069	5.29	5272	5.80														
918	3400	4884	5.04	5096	5.57	•5299	•6.11														

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I -

SIZE 09M

MAXIMUM OPERATING SPEEDS

Wheel Diameter	15.50 inches	394 mm
Wheel Circumference	4.06 feet	1.237 m
Inlet Diameter/Area	9 inches dia./ .360 sq. ft.	229 mm/.0334 m ²
Outlet Size/Area	8.56 x 7.88 inches/ .432 sq. ft.	217 mm x 200 mm/ .0401 m ²
Tip Speed	4.06 x RPM ft./minute	1.237 x RPM m/minute

SIZE 09M	-20° to 150°F -29° to 66°C
STD	3697
I SERIES	4189
H SERIES	NA

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
432	1000	●676	●0.06	●900	●0.12	1230	0.24														
518	1200	711	0.08	923	0.14	1250	0.29	1504	0.44	1721	0.61										
605	1400	751	0.10	954	0.17	●1270	●0.33	1523	0.51	1737	0.68	1928	0.88								
691	1600	794	0.13	988	0.21	1292	0.38	1543	0.58	1756	0.78	1944	0.97	2117	1.19	2276	1.42				
778	1800	840	0.16	1025	0.25	1321	0.44	●1564	●0.65	1777	0.86	1964	1.09	2134	1.31	2291	1.54	2439	1.79	2578	2.05
864	2000	888	0.20	1066	0.30	1352	0.50	1586	0.72	●1797	●0.96	1984	1.20	2153	1.45	2309	1.70	2455	1.95	2593	2.21
950	2200	937	0.24	1109	0.35	1385	0.57	1616	0.80	1819	1.05	2005	1.31	2174	1.58	2329	1.86	2473	2.14	2610	2.41
1037	2400	988	0.29	1154	0.41	1422	0.64	1647	0.89	1844	1.16	●2026	●1.43	2194	1.72	2350	2.01	2494	2.31	2629	2.61
1123	2600	1043	0.35	1201	0.48	1459	0.73	1678	0.99	1874	1.27	2048	1.56	●2215	●1.86	2370	2.17	2514	2.49	2650	2.81
1210	2800	1099	0.42	1248	0.55	1500	0.82	1715	1.10	1905	1.39	2078	1.70	2237	2.01	●2391	●2.34	2535	2.67	2670	3.01
1296	3000	1156	0.50	1297	0.63	1542	0.93	1752	1.22	1937	1.52	2109	1.84	2265	2.17	2412	2.51	●2556	●2.86	2691	3.21
1382	3200	1213	0.58	1347	0.73	1587	1.04	1790	1.35	1973	1.67	2140	2.00	2296	2.35	2440	2.69	2577	3.05	●2712	●3.43
1469	3400	1271	0.67	1399	0.84	1633	1.16	1831	1.49	2010	1.82	2172	2.16	2327	2.53	2470	2.89	2604	3.27	2733	3.65
1555	3600	1329	0.78	1454	0.95	1679	1.29	1872	1.64	2047	1.99	2209	2.35	2358	2.72	2501	3.10	2634	3.49	2760	3.89
1642	3800	1388	0.89	1509	1.08	1726	1.43	1916	1.80	2087	2.17	2246	2.55	2392	2.92	2532	3.32	2665	3.73	2790	4.14
1728	4000	1448	1.02	1565	1.22	1773	1.58	1961	1.98	2128	2.37	2283	2.75	2429	3.15	2564	3.55	2696	3.98	2821	4.41
1814	4200	1508	1.16	1622	1.37	1822	1.75	2007	2.16	2170	2.57	2322	2.97	2466	3.39	2600	3.81	2727	4.23	2851	4.68
1901	4400	1568	1.31	1679	1.53	1872	1.94	2053	2.36	2213	2.79	2363	3.21	2503	3.64	2637	4.08	2762	4.51	2883	4.97
1987	4600	1629	1.48	1736	1.71	1923	2.14	2100	2.57	2259	3.02	2404	3.46	2542	3.90	2674	4.36	2798	4.81	2916	5.27
2074	4800	1690	1.66	1794	1.90	1975	2.35	2147	2.79	2304	3.26	2447	3.73	2583	4.19	2711	4.65	2835	5.13	2952	5.60
2160	5000	1751	1.85	1852	2.10	2029	2.58	2195	3.02	2350	3.52	2491	4.01	2624	4.49	2751	4.97	2872	5.46	2989	5.95
2246	5200	1813	2.06	1911	2.32	2084	2.82	2244	3.29	2397	3.79	2537	4.30	2666	4.80	2792	5.30	2910	5.80	3026	6.31
2333	5400	1875	2.29	1970	2.56	2140	3.08	2294	3.57	2444	4.08	2582	4.61	2710	5.13	2833	5.65	2950	6.16	3063	6.69
2419	5600	1937	2.53	2030	2.81	2196	3.35	2345	3.87	2491	4.38	2628	4.93	2755	5.47	2875	6.01	2991	6.55	3102	7.08

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
950	2200	2739	2.67	2864	2.97	2983	3.28	3097	3.59	3206	3.91										
1037	2400	2758	2.91	2881	3.20	2998	3.50	3112	3.83	3221	4.16	3327	4.50	3429	4.84						
1123	2600	2778	3.13	2899	3.47	3016	3.78	3128	4.10	3237	4.42	3342	4.77	3444	5.13	3543	5.49	3639	5.86	3732	6.23
1210	2800	2798	3.35	2920	3.70	3036	4.05	3147	4.41	3255	4.75	3359	5.08	3459	5.42	3558	5.80	3654	6.18	3747	6.57
1296	3000	2819	3.58	2940	3.94	3056	4.31	3167	4.69	3274	5.07	3377	5.45	3478	5.81	3575	6.16	3670	6.52	3762	6.91
1382	3200	2839	3.80	2961	4.19	3076	4.58	3188	4.97	3294	5.37	3398	5.77	3497	6.17	3594	6.58	3688	6.96	3780	7.34
1469	3400	2860	4.04	2981	4.44	3097	4.85	3208	5.26	3315	5.67	3418	6.09	3517	6.51	3614	6.94	3707	7.36	3798	7.80
1555	3600	2882	4.29	3002	4.71	3118	5.13	3229	5.55	3335	5.99	3438	6.42	3538	6.86	3634	7.30	3727	7.75	3818	8.20
1642	3800	2909	4.55	3024	4.98	3139	5.42	3249	5.86	3356	6.31	3459	6.76	3558	7.22	3654	7.68	3748	8.14	3838	8.61
1728	4000	2939	4.84	3051	5.27	3160	5.71	3270	6.18	3377	6.64	3479	7.11	3578	7.58	3674	8.06	3768	8.54	3859	9.02
1814	4200	2969	5.13	3082	5.59	3189	6.04	3292	6.50	3398	6.98	3500	7.47	3599	7.96	3695	8.45	3788	8.94	3879	9.45
1901	4400	3000	5.44	3112	5.91	3219	6.38	3322	6.86	3421	7.34	3521	7.83	3620	8.34	3716	8.85	3809	9.36	3899	9.88
1987	4600	3031	5.75	3143	6.24	3250	6.73	3352	7.23	3451	7.73	3547	8.22	3641	8.73	3737	9.26	3830	9.79	3920	10.33
2074	4800	3063	6.08	3174	6.58	3281	7.10	3383	7.61	3481	8.13	3577	8.64	3669	9.16	3758	9.68	3851	10.23	3941	10.78
2160	5000	3099	6.45	3205	6.94	3311	7.47	3414	8.00	3512	8.54	3607	9.07	3699	9.61	3788	10.15	3874	10.69	3962	11.25
2246	5200	3136	6.83	3241	7.34	3343	7.86	3444	8.41	3543	8.96	3637	9.52	3729	10.07	3818	10.63	3904	11.19	3988	11.75
2333	5400	3173	7.22	3278	7.75	3378	8.29	3476	8.82	3573	9.40	3668	9.97	3759	10.54	3848	11.12	3934	11.70	4018	12.28
2419	5600	3210	7.63	3314	8.18	3414	8.73	3510	9.28	3605	9.85	3699	10.44	3790	11.03	3879	11.63	3965	12.22	4048	12.82
2506	5800	3247	8.05	3351	8.63	3451	9.20	3547	9.77	3639	10.34	3730	10.92	3821	11.53	3909	12.14	3995	12.76	4079	13.37
2592	6000	3287	8.51	3389	9.09	3488	9.68	3583	10.27	3675	10.86	3764	11.44	3852	12.04	3940	12.68	4026	13.31	4109	13.94
2678	6200	3328	8.99	3427	9.57	3525	10.17	3620	10.79	3712	11.39	3801	12.00	3887	12.61	3971	13.22	4056	13.87	4140	14.53
2765	6400	3369	9.48	3468	10.09	3563	10.69	3657	11.32	3749	11.95	3837	12.57	3923	13.20	4006	13.82	4087	14.45	4170	15.12
2851	6600	3411	9.99	3509	10.62	3603	11.24	3695	11.87	3786	12.52	3874	13.16	3959	13.81	4042	14.45	4123	15.09		
2938	6800	3453	10.52	3550	11.17	3644	11.81	3734	12.45	3823	13.10	3911	13.77	3996	14.43	4079	15.10	4159	15.76		

[illegible]

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard ☐ I - Intermediate ☐ H - High Pressure ☐

The U.S. FAN class range is shown in shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.

For minimum motor size required see "Fan Starting Requirements," page 7.

Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).

Refer to factors on page 9 to convert numbers above to the desired metric units.

MAXIMUM OPERATING SPEEDS

SIZE 11M	-20° to 150°F -29° to 66°C
STD	2996
I SERIES	3395
H SERIES	4394

Wheel Diameter	19.13 inches	486 mm
Wheel Circumference	5.01 feet	1.527 m
Inlet Diameter/Area	11 inches dia./ .615 sq. ft.	279 mm/.0571 m ²
Outlet Size/Area	10.38 x 9.63 inches/ .657 sq. ft.	264 mm x 245 mm/ .0610 m ²
Tip Speed	5.01 x RPM ft./minute	1.527 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
788	1200	568	0.12	736	0.21	993	0.41														
920	1400	599	0.15	761	0.25	•1010	•0.48	1210	0.72												
1051	1600	634	0.19	789	0.30	1029	0.55	•1226	•0.82	1395	1.10										
1183	1800	670	0.23	818	0.36	1053	0.63	1244	0.93	•1411	•1.23	1560	1.55								
1314	2000	711	0.29	850	0.43	1078	0.72	1264	1.04	1429	1.37	1576	1.71	1710	2.06						
1445	2200	753	0.35	885	0.51	1106	0.83	1289	1.16	1448	1.52	•1593	•1.88	1726	2.25	1850	2.64				
1577	2400	795	0.42	921	0.59	1135	0.94	1314	1.29	1470	1.67	1613	2.06	•1743	•2.46	1866	2.87	1981	3.28	2088	3.71
1708	2600	840	0.51	958	0.69	1164	1.06	1341	1.44	1495	1.84	1633	2.25	1763	2.67	•1883	•3.10	•1997	•3.55	2104	4.00
1840	2800	887	0.61	999	0.80	1197	1.19	1369	1.60	1520	2.02	1658	2.45	1783	2.90	1903	3.36	2014	3.82	•2120	•4.29
1971	3000	934	0.72	1040	0.92	1232	1.34	1398	1.77	1547	2.21	1682	2.67	1807	3.14	1922	3.62	2034	4.11	2138	4.60
2102	3200	981	0.84	1083	1.05	1267	1.50	1428	1.96	1575	2.43	1707	2.89	1831	3.39	1946	3.90	2054	4.41	2158	4.93
2234	3400	1029	0.98	1126	1.20	1302	1.67	1460	2.16	1604	2.65	1735	3.15	1856	3.66	1970	4.19	2076	4.72	2178	5.26
2365	3600	1078	1.13	1170	1.37	1338	1.86	1495	2.38	1633	2.89	1764	3.42	1882	3.94	1995	4.49	2101	5.05	2201	5.62
2497	3800	1127	1.30	1216	1.55	1379	2.07	1530	2.61	1664	3.15	1793	3.70	1911	4.25	2020	4.81	2126	5.40	2225	5.99
2628	4000	1176	1.49	1263	1.75	1420	2.30	1565	2.86	1698	3.43	1822	4.00	1939	4.58	2048	5.16	2151	5.75	2250	6.37
2759	4200	1226	1.70	1310	1.97	1461	2.54	1600	3.12	1732	3.72	1851	4.31	1968	4.93	2076	5.54	2177	6.14	2275	6.77
2891	4400	1276	1.93	1357	2.21	1503	2.80	1636	3.40	1767	4.03	1885	4.66	1997	5.29	2105	5.93	2206	6.56	2301	7.20
3022	4600	1327	2.17	1405	2.47	1546	3.08	1676	3.71	1802	4.36	1919	5.02	2027	5.66	2134	6.33	2234	7.00	2329	7.66
3154	4800	1378	2.44	1453	2.75	1589	3.38	1717	4.04	1838	4.71	1954	5.39	2061	6.07	2163	6.76	2263	7.45	2357	8.15
3285	5000	1429	2.73	1501	3.06	1633	3.70	1759	4.39	1874	5.08	1989	5.79	2095	6.50	2193	7.20	2292	7.93	2386	8.65
3416	5200	1480	3.05	1550	3.38	1678	4.06	1800	4.76	1912	5.47	2024	6.21	2129	6.95	2227	7.68	2321	8.42	2415	9.17
3548	5400	1532	3.38	1599	3.73	1724	4.43	1842	5.16	1953	5.89	2060	6.65	2164	7.42	2261	8.18	2353	8.94	2444	9.71
3679	5600	1583	3.75	1648	4.10	1771	4.83	1885	5.58	1993	6.34	2096	7.11	2199	7.91	2295	8.70	2386	9.49	2473	10.28
3811	5800	1635	4.14	1698	4.50	1818	5.26	1927	6.02	2035	6.81	2133	7.60	2234	8.42	2330	9.25	2420	10.06	2506	10.88

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1840	2800	2222	4.77	2319	5.26	2411	5.75														
1971	3000	•2238	•5.10	2335	5.62	2427	6.13	2515	6.66	2600	7.19										
2102	3200	2257	5.45	•2351	•5.98	2443	6.53	2531	7.08	2616	7.63	2698	8.19	2777	8.75						
2234	3400	2276	5.82	2370	6.37	•2460	•6.93	•2547	•7.50	2632	8.08	2714	8.67	2793	9.26	2869	9.85	2944	10.44		
2365	3600	2296	6.19	2390	6.77	2480	7.36	2565	7.95	•2648	•8.55	2730	9.16	2809	9.77	2885	10.39	2960	11.01	3032	11.64
2497	3800	2319	6.59	2410	7.19	2499	7.80	2585	8.42	2667	9.04	•2747	•9.67	•2825	•10.30	2901	10.94	2975	11.59	3047	12.24
2628	4000	2344	7.00	2433	7.62	2519	8.25	2604	8.90	2687	9.55	2766	10.20	2843	10.85	•2918	•11.51	•2991	•12.18	3063	12.86
2759	4200	2368	7.42	2458	8.08	2543	8.73	2625	9.39	2706	10.07	2786	10.74	2863	11.43	2937	12.11	3009	12.80	•3079	•13.48
2891	4400	2393	7.87	2482	8.55	2567	9.23	2649	9.92	2728	10.60	2805	11.30	2882	12.01	2956	12.72	3028	13.43	3099	14.15
3022	4600	2419	8.33	2507	9.03	2592	9.74	2674	10.45	2752	11.17	2828	11.89	2902	12.61	2976	13.35	3048	14.09	3118	14.83
3154	4800	2447	8.84	2532	9.53	2617	10.27	2698	11.01	2776	11.75	2852	12.50	2925	13.24	2996	13.99	3067	14.76	3137	15.53
3285	5000	2475	9.37	2560	10.09	2642	10.81	2723	11.58	2801	12.35	2876	13.12	2949	13.89	3020	14.67	3089	15.45	3157	16.24
3416	5200	2504	9.92	2588	10.67	2670	11.42	2748	12.17	2826	12.96	2901	13.76	2974	14.56	3044	15.37	3113	16.17	3180	16.98
3548	5400	2532	10.49	2617	11.27	2698	12.05	2775	12.82	2851	13.60	2926	14.42	2998	15.25	3069	16.08	3137	16.91	3204	17.75
3679	5600	2561	11.09	2645	11.89	2726	12.70	2804	13.50	2878	14.30	2951	15.10	3023	15.96	3093	16.81	3162	17.67	3228	18.53
3811	5800	2590	11.70	2674	12.54	2755	13.37	2832	14.20	2906	15.03	2978	15.86	3048	16.68	3118	17.57	3186	18.45	3253	19.34
3942	6000	2621	12.34	2703	13.20	2783	14.07	2860	14.93	2935	15.78	3006	16.64	3076	17.49	3143	18.35	3211	19.25	3277	20.17
4073	6200	2655	13.02	2733	13.89	2812	14.78	2889	15.67	2963	16.56	3035	17.45	3104	18.33	3171	19.21	3236	20.09	3302	21.01
4205	6400	2689	13.73	2766	14.62	2842	15.52	2918	16.44	2992	17.36	3063	18.27	3132	19.19	3199	20.09	3264	21.00	3328	21.91
4336	6600	2723	14.46	2799	15.38	2873	16.30	2947	17.24	3021	18.18	3092	19.13	3160	20.07	3227	21.01	3292	21.94	3356	22.88
4468	6800	2757	15.22	2833	16.17	2906	17.11	2977	18.06	3050	19.03	3120	20.00	3189	20.97	3256	21.94	3320	22.91	3384	23.87
4599	7000	2792	16.00	2868	16.98	2940	17.96	3010	18.93	3079	19.90	3149	20.91	3218	21.91	3284	22.90	3349	23.90	3412	24.89
4730	7200	2827	16.82	2902	17.83	2974	18.83	3044	19.83	3111	20.83	3178	21.84	3247	22.87	3313	23.89	3377	24.91	3440	25.93
4862	7400	2862	17.66	2937	18.70	3009	19.73	3078	20.76	3145	21.79	3210	22.81	3276	23.85	3342	24.91	3406	25.96	3468	27.01

VOL CFM	OUT VEL	20" SP		22" SP		24" SP		26" SP		28" SP		30" SP		32" SP		34" SP		36" SP		38" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2628	4000	3133	13.54	3269	14.91	3397	16.29														
2759	4200	●3149	●14.19	3284	15.61	3413	17.05	3536	18.49	3655	19.95										
2891	4400	3167	14.87	●3300	●16.33	3429	17.82	3552	19.31	3670	20.82	3784	22.34								
3022	4600	3186	15.58	3317	17.07	3444	18.60	3568	20.14	3686	21.70	3800	23.27	3910	24.85	4017	26.44				
3154	4800	3205	16.30	3336	17.85	●3462	●19.40	●3583	●20.99	3701	22.60	3815	24.22	3925	25.85	4032	27.49	4135	29.14		
3285	5000	3225	17.03	3356	18.64	3481	20.25	3600	21.86	●3717	●23.51	3831	25.18	3941	26.86	4047	28.55	4150	30.25	4250	31.96
3416	5200	3245	17.79	3375	19.44	3500	21.10	3619	22.78	3734	24.45	●3846	●26.16	3956	27.89	4063	29.63	4166	31.38	4266	33.13
3548	5400	3269	18.58	3395	20.26	3519	21.98	3639	23.70	3753	25.43	3864	27.17	●3972	●28.93	4078	30.72	4181	32.52	4281	34.32
3679	5600	3293	19.39	3418	21.12	3539	22.87	3658	24.65	3773	26.43	3883	28.22	3990	30.01	●4094	●31.82	4196	33.67	4296	35.53
3811	5800	3317	20.23	3442	22.01	3561	23.80	3677	25.61	3792	27.44	3902	29.28	4009	31.13	4112	32.99	●4212	●34.84	4312	36.75
3942	6000	3342	21.08	3466	22.91	3585	24.75	3698	26.60	3811	28.48	3921	30.37	4028	32.27	4131	34.17	4231	36.08	●4328	●38.00
4073	6200	3366	21.95	3490	23.84	3609	25.73	3722	27.63	3831	29.53	3940	31.47	4047	33.42	4150	35.38	4250	37.34	4346	39.31
4205	6400	3391	22.85	3515	24.79	3633	26.73	3746	28.68	3855	30.64	3960	32.60	4066	34.60	4169	36.60	4268	38.62	4365	40.63
4336	6600	3417	23.81	3539	25.76	3657	27.76	3770	29.76	3879	31.77	3984	33.78	4086	35.79	4188	37.85	4287	39.91	4384	41.96

Standard Material Handling Wheel

SIZE 13M

MAXIMUM OPERATING SPEEDS

Wheel Diameter	22.63 inches	575 mm
Wheel Circumference	5.92 feet	1.804 m
Inlet Diameter/Area	13 inches dia./ .869 sq. ft.	330 mm/.0807 m ²
Outlet Size/Area	12.19 x 11.38 inches/ .920 sq. ft.	310 mm x 289 mm/ .0855 m ²
Tip Speed	5.92 x RPM ft./minute	1.804 x RPM m/minute

SIZE 13M	-20° to 150°F -29° to 66°C
STD	2532
I SERIES	2870
H SERIES	3714

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1104	1200	480	0.16	622	0.29	839	0.58														
1288	1400	507	0.21	643	0.35	853	0.67	1022	1.01												
1472	1600	536	0.26	667	0.43	870	0.77	1036	1.15	1179	1.54										
1656	1800	566	0.33	692	0.51	891	0.89	1052	1.30	1193	1.72	1319	2.17								
1840	2000	601	0.40	719	0.60	912	1.01	1069	1.46	1208	1.92	1332	2.39	1446	2.89						
2024	2200	636	0.49	748	0.71	935	1.16	1090	1.63	1224	2.12	1347	2.63	1459	3.16	1564	3.70				
2208	2400	673	0.59	778	0.83	960	1.31	1111	1.81	1243	2.34	1363	2.89	1474	3.44	1577	4.01	1674	4.60	1765	5.19
2392	2600	710	0.71	810	0.96	984	1.48	1133	2.02	1264	2.58	1381	3.15	1490	3.75	1592	4.35	1688	4.96	1779	5.60
2576	2800	750	0.85	845	1.12	1012	1.67	1158	2.24	1285	2.82	1401	3.44	1507	4.06	1608	4.70	1703	5.35	1792	6.01
2760	3000	789	1.00	880	1.29	1041	1.88	1182	2.48	1308	3.10	1422	3.74	1527	4.40	1625	5.07	1719	5.75	1808	6.44
2944	3200	830	1.18	916	1.47	1071	2.10	1207	2.74	1332	3.40	1443	4.05	1548	4.75	1645	5.46	1736	6.17	1824	6.90
3128	3400	870	1.37	952	1.68	1101	2.35	1235	3.03	1356	3.72	1467	4.41	1569	5.12	1666	5.86	1755	6.61	1841	7.37
3312	3600	912	1.59	989	1.92	1132	2.61	1264	3.33	1381	4.05	1491	4.79	1591	5.52	1687	6.29	1776	7.08	1860	7.87
3496	3800	953	1.83	1028	2.18	1166	2.90	1293	3.66	1407	4.41	1515	5.19	1615	5.96	1708	6.73	1797	7.56	1881	8.39
3680	4000	995	2.09	1068	2.46	1201	3.22	1323	4.00	1436	4.80	1540	5.60	1639	6.42	1731	7.23	1818	8.06	1902	8.93
3864	4200	1037	2.38	1108	2.77	1236	3.56	1353	4.37	1465	5.21	1565	6.04	1664	6.90	1755	7.75	1841	8.60	1923	9.49
4048	4400	1080	2.70	1148	3.10	1271	3.92	1384	4.77	1494	5.65	1594	6.52	1689	7.41	1780	8.30	1865	9.19	1945	10.08
4232	4600	1122	3.05	1188	3.47	1307	4.32	1418	5.20	1524	6.11	1623	7.03	1714	7.93	1804	8.87	1889	9.80	1969	10.73
4416	4800	1165	3.42	1229	3.86	1344	4.74	1452	5.66	1554	6.60	1652	7.56	1742	8.51	1829	9.47	1913	10.44	1993	11.41
4600	5000	1209	3.83	1270	4.28	1381	5.19	1487	6.15	1584	7.11	1682	8.11	1771	9.11	1854	10.09	1938	11.10	2017	12.12
4784	5200	1252	4.27	1311	4.74	1419	5.68	1522	6.67	1617	7.66	1711	8.70	1800	9.73	1883	10.76	1963	11.79	2042	12.85
4968	5400	1295	4.74	1352	5.23	1458	6.21	1558	7.23	1651	8.26	1741	9.31	1830	10.39	1912	11.46	1989	12.52	2066	13.61
5152	5600	1339	5.25	1394	5.75	1498	6.78	1594	7.81	1686	8.89	1772	9.96	1859	11.08	1941	12.19	2018	13.29	2091	14.39
5336	5800	1383	5.80	1436	6.31	1537	7.37	1630	8.43	1721	9.55	1804	10.65	1889	11.80	1970	12.95	2047	14.10	2119	15.23

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2576	2800	1878	6.68	1960	7.37	2038	8.06														
2760	3000	1892	7.15	1974	7.86	2051	8.59	2126	9.32	2198	10.06										
2944	3200	1908	7.64	1987	8.38	2065	9.14	2140	9.91	2211	10.68	2281	11.46	2348	12.25						
3128	3400	1924	8.15	2004	8.92	2080	9.71	2153	10.51	2225	11.32	2294	12.14	2361	12.96	2426	13.79	2489	14.62		
3312	3600	1941	8.67	2020	9.49	2096	10.31	2169	11.14	2239	11.97	2308	12.82	2374	13.68	2439	14.55	2502	15.42	2563	16.29
3496	3800	1961	9.22	2037	10.07	2113	10.93	2185	11.79	2255	12.66	2322	13.53	2388	14.42	2452	15.32	2515	16.23	2576	17.14
3680	4000	1981	9.80	2057	10.68	2129	11.56	2202	12.46	2271	13.37	2339	14.28	2404	15.20	2467	16.12	2529	17.05	2590	18.00
3864	4200	2002	10.40	2078	11.31	2150	12.23	2219	13.15	2288	14.10	2355	15.05	2420	16.00	2483	16.96	2544	17.92	2603	18.88
4048	4400	2023	11.02	2099	11.97	2170	12.93	2240	13.89	2306	14.85	2372	15.83	2436	16.82	2499	17.81	2560	18.81	2619	19.82
4232	4600	2045	11.66	2120	12.65	2191	13.64	2260	14.64	2327	15.64	2391	16.65	2453	17.66	2516	18.69	2577	19.73	2636	20.77
4416	4800	2069	12.38	2141	13.35	2212	14.38	2281	15.42	2347	16.46	2411	17.50	2473	18.55	2533	19.60	2593	20.66	2652	21.74
4600	5000	2093	13.13	2164	14.13	2233	15.14	2302	16.22	2368	17.29	2432	18.38	2493	19.46	2553	20.55	2611	21.64	2669	22.74
4784	5200	2117	13.90	2188	14.95	2257	15.99	2323	17.04	2389	18.16	2453	19.28	2514	20.40	2574	21.52	2632	22.65	2688	23.78
4968	5400	2141	14.70	2212	15.79	2281	16.87	2346	17.96	2410	19.04	2473	20.20	2535	21.36	2594	22.52	2652	23.69	2709	24.85
5152	5600	2165	15.53	2237	16.66	2305	17.79	2370	18.91	2433	20.03	2495	21.15	2556	22.35	2615	23.55	2673	24.75	2729	25.95
5336	5800	2190	16.39	2261	17.56	2329	18.73	2394	19.89	2457	21.05	2518	22.21	2577	23.37	2636	24.60	2694	25.84	2750	27.08
5520	6000	2216	17.29	2286	18.49	2353	19.70	2418	20.91	2481	22.11	2542	23.31	2600	24.50	2657	25.70	2715	26.96	2771	28.24
5704	6200	2245	18.24	2310	19.45	2378	20.71	2443	21.95	2505	23.20	2566	24.43	2624	25.67	2681	26.90	2736	28.13	2791	29.43
5888	6400	2273	19.23	2338	20.48	2402	21.74	2467	23.03	2529	24.32	2590	25.60	2648	26.87	2705	28.15	2760	29.42	2813	30.68
6072	6600	2302	20.25	2367	21.54	2429	22.83	2492	24.14	2554	25.47	2614	26.79	2672	28.11	2729	29.42	2783	30.73	2837	32.04
6256	6800	2331	21.32	2396	22.65	2457	23.97	2517	25.29	2578	26.66	2638	28.02	2696	29.38	2753	30.73	2807	32.08	2861	33.43
6440	7000	2361	22.42	2425	23.79	2486	25.16	2545	26.52	2603	27.88	2663	29.29	2720	30.69	2777	32.08	2831	33.47	2884	34.86
6624	7200	2390	23.56	2454	24.97	2515	26.38	2574	27.78	2631	29.18	2687	30.59	2745	32.03	2801	33.47	2855	34.90	2908	36.33
6808	7400	2420	24.74	2483	26.20	2544	27.64	2602	29.09	2659	30.52	2714	31.95	2770	33.41	2825	34.89	2880	36.36	2932	37.83

VOL CFM	OUT VEL	20" SP		22" SP		24" SP		26" SP		28" SP		30" SP		32" SP		34" SP		36" SP		38" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3680	4000	2649	18.95	2763	20.87	2872	22.81														
3864	4200	●2662	●19.87	2776	21.86	2885	23.87	2989	25.90	3090	27.94										
4048	4400	2677	20.82	●2790	●22.87	2898	24.95	3003	27.04	3103	29.15	3199	31.28								
4232	4600	2693	21.81	2804	23.91	2912	26.04	3016	28.21	3116	30.39	3212	32.59	3305	34.80	3395	37.03				
4416	4800	2710	22.82	2821	24.99	●2926	●27.17	●3029	●29.39	3129	31.65	3225	33.92	3318	36.20	3408	38.49	3496	40.80		
4600	5000	2726	23.85	2837	26.10	2942	28.35	3044	30.62	●3142	●32.92	3238	35.26	3331	37.61	3421	39.98	3508	42.36	3593	44.75
4784	5200	2743	24.91	2853	27.22	2959	29.55	3060	31.89	3157	34.24	●3252	●36.63	3344	39.05	3434	41.49	3521	43.93	3606	46.39
4968	5400	2763	26.02	2870	28.38	2975	30.78	3076	33.19	3173	35.61	3267	38.05	●3358	●40.51	3447	43.01	3534	45.53	3619	48.06
5152	5600	2784	27.16	2889	29.58	2991	32.03	3092	34.51	3189	37.01	3283	39.52	3373	42.03	●3461	●44.56	3547	47.15	3632	49.75
5336	5800	2804	28.33	2910	30.82	3010	33.32	3109	35.86	3205	38.43	3299	41.01	3389	43.60	3476	46.19	●3561	●48.79	3645	51.46
5520	6000	2825	29.52	2930	32.09	3030	34.67	3127	37.25	3222	39.88	3315	42.53	3405	45.19	3492	47.85	3576	50.53	●3659	●53.21
5704	6200	2846	30.75	2951	33.39	3051	36.04	3147	38.69	3239	41.36	3331	44.07	3421	46.80	3508	49.54	3592	52.29	3674	55.04
5888	6400	2867	32.00	2971	34.72	3071	37.44	3167	40.17	3259	42.91	3348	45.65	3437	48.45	3524	51.26	3608	54.08	3690	56.90
6072	6600	2889	33.34	2992	36.08	3092	38.87	3187	41.68	3279	44.49	3368	47.30	3454	50.12	3540	53.00	3625	55.89	3706	58.79

MAXIMUM OPERATING SPEEDS

SIZE 15M	-20° to 150°F -29° to 66°C
STD	2193
I SERIES	2486
H SERIES	3217

Wheel Diameter	26.13 inches	664 mm
Wheel Circumference	6.84 feet	2.085 m
Inlet Diameter/Area	15 inches dia./1.167 sq. ft.	381 mm/1084 m ²
Outlet Size/Area	14.31 x 12.88 inches/ 1.230 sq. ft.	363 mm x 327 mm/ .1143 m ²
Tip Speed	6.84 x RPM ft./minute	2.085 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1476	1200	416	0.22	539	0.39	727	0.77														
1722	1400	439	0.28	558	0.47	739	0.90	886	1.35												
1968	1600	465	0.35	578	0.57	754	1.04	898	1.54	1021	2.06										
2214	1800	491	0.44	599	0.68	772	1.19	911	1.73	1033	2.31	1142	2.90								
2460	2000	521	0.54	623	0.81	790	1.35	926	1.95	1046	2.56	1154	3.20	1252	3.86						
2706	2200	552	0.66	649	0.95	811	1.55	944	2.18	1061	2.84	1167	3.52	1264	4.22	1355	4.94				
2952	2400	583	0.80	675	1.11	832	1.76	963	2.42	1077	3.13	1181	3.86	1277	4.60	1366	5.37	1450	6.15	1529	6.94
3198	2600	616	0.96	702	1.29	853	1.99	982	2.70	1095	3.45	1196	4.21	1291	5.01	1379	5.81	1462	6.64	1541	7.48
3444	2800	651	1.14	733	1.50	878	2.24	1003	3.00	1114	3.78	1214	4.60	1306	5.43	1394	6.29	1475	7.15	1553	8.03
3690	3000	685	1.35	763	1.72	903	2.52	1025	3.33	1133	4.15	1232	5.00	1323	5.88	1408	6.78	1490	7.69	1566	8.62
3936	3200	720	1.58	794	1.98	929	2.82	1046	3.67	1154	4.55	1251	5.42	1342	6.36	1425	7.30	1504	8.25	1581	9.23
4182	3400	755	1.84	826	2.26	955	3.14	1071	4.05	1176	4.97	1271	5.90	1360	6.85	1443	7.84	1521	8.85	1595	9.86
4428	3600	791	2.13	859	2.57	981	3.49	1096	4.46	1197	5.43	1292	6.41	1379	7.39	1462	8.41	1539	9.47	1612	10.52
4674	3800	827	2.45	892	2.92	1011	3.89	1121	4.90	1220	5.91	1314	6.94	1400	7.98	1480	9.01	1557	10.11	1630	11.22
4920	4000	863	2.81	927	3.30	1041	4.31	1147	5.36	1245	6.43	1335	7.50	1421	8.59	1501	9.68	1576	10.78	1648	11.94
5166	4200	900	3.20	961	3.71	1072	4.77	1173	5.86	1270	6.98	1357	8.09	1442	9.24	1521	10.38	1595	11.52	1667	12.69
5412	4400	937	3.63	996	4.17	1103	5.26	1200	6.39	1296	7.57	1382	8.74	1464	9.92	1542	11.11	1616	12.30	1686	13.49
5658	4600	974	4.09	1031	4.65	1134	5.79	1230	6.97	1321	8.19	1407	9.41	1486	10.63	1564	11.88	1637	13.13	1706	14.37
5904	4800	1012	4.60	1066	5.18	1166	6.35	1260	7.59	1348	8.84	1432	10.12	1510	11.39	1585	12.67	1658	13.98	1727	15.28
6150	5000	1049	5.15	1102	5.75	1198	6.96	1290	8.25	1374	9.53	1458	10.87	1535	12.20	1608	13.51	1680	14.87	1748	16.22
6396	5200	1087	5.74	1138	6.36	1232	7.63	1321	8.95	1402	10.27	1484	11.66	1561	13.04	1632	14.41	1701	15.79	1770	17.20
6642	5400	1125	6.37	1174	7.02	1265	8.34	1351	9.69	1432	11.07	1510	12.48	1586	13.92	1657	15.35	1724	16.77	1791	18.22
6888	5600	1163	7.06	1210	7.72	1300	9.09	1383	10.48	1462	11.91	1537	13.35	1612	14.85	1683	16.33	1749	17.80	1813	19.27
7134	5800	1201	7.79	1247	8.48	1334	9.90	1414	11.31	1492	12.80	1565	14.27	1638	15.81	1708	17.35	1774	18.88	1837	20.40

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3444	2800	1627	8.93	1698	9.85	1765	10.77														
3690	3000	1639	9.55	1710	10.51	1777	11.48	1842	12.46	1904	13.45										
3936	3200	1653	10.21	1722	11.20	1789	12.22	1854	13.25	1916	14.28	1976	15.33	2034	16.38						
4182	3400	1667	10.89	1736	11.93	1802	12.98	1865	14.05	1927	15.13	1987	16.22	2045	17.32	2101	18.43	2156	19.55		
4428	3600	1682	11.59	1750	12.69	1816	13.79	1879	14.89	1939	16.00	1999	17.14	2057	18.29	2113	19.45	2167	20.61	2220	21.78
4674	3800	1699	12.34	1765	13.46	1830	14.61	1893	15.77	1954	16.93	2012	18.10	2069	19.28	2125	20.48	2179	21.69	2232	22.91
4920	4000	1717	13.11	1782	14.28	1845	15.46	1908	16.67	1968	17.88	2026	19.10	2082	20.32	2137	21.55	2191	22.80	2243	24.07
5166	4200	1735	13.91	1800	15.13	1863	16.36	1923	17.59	1982	18.85	2040	20.12	2097	21.39	2151	22.67	2204	23.96	2255	25.25
5412	4400	1753	14.74	1818	16.01	1881	17.29	1941	18.57	1998	19.86	2055	21.17	2111	22.49	2165	23.82	2218	25.16	2269	26.50
5658	4600	1772	15.61	1837	16.92	1899	18.25	1959	19.58	2016	20.92	2071	22.27	2125	23.62	2180	25.00	2232	26.38	2284	27.77
5904	4800	1793	16.57	1855	17.86	1917	19.24	1977	20.62	2034	22.01	2089	23.41	2143	24.81	2195	26.21	2247	27.64	2298	29.07
6150	5000	1814	17.57	1876	18.92	1935	20.26	1995	21.70	2052	23.14	2107	24.58	2161	26.03	2212	27.48	2263	28.94	2312	30.41
6396	5200	1835	18.61	1897	20.01	1956	21.40	2013	22.80	2070	24.29	2125	25.79	2179	27.29	2230	28.79	2280	30.29	2329	31.80
6642	5400	1856	19.68	1917	21.14	1977	22.59	2034	24.03	2089	25.48	2143	27.03	2197	28.58	2248	30.13	2298	31.68	2347	33.24
6888	5600	1877	20.79	1939	22.30	1998	23.81	2054	25.31	2109	26.81	2162	28.30	2215	29.90	2266	31.50	2316	33.11	2365	34.72
7134	5800	1898	21.94	1960	23.51	2019	25.07	2075	26.63	2130	28.18	2182	29.73	2233	31.27	2284	32.92	2334	34.57	2383	36.23
7380	6000	1921	23.15	1981	24.76	2040	26.38	2096	27.99	2150	29.59	2203	31.20	2254	32.80	2303	34.39	2352	36.07	2401	37.78
7626	6200	1946	24.43	2003	26.05	2061	27.72	2117	29.39	2171	31.05	2224	32.71	2274	34.36	2324	36.01	2371	37.65	2419	39.37
7872	6400	1971	25.76	2027	27.43	2082	29.11	2138	30.84	2192	32.55	2245	34.27	2295	35.97	2344	37.67	2392	39.37	2438	41.07
8118	6600	1996	27.13	2052	28.86	2106	30.57	2160	32.33	2214	34.10	2266	35.87	2316	37.63	2365	39.38	2412	41.14	2459	42.88
8364	6800	2021	28.56	2077	30.34	2130	32.11	2182	33.87	2235	35.69	2287	37.52	2337	39.33	2386	41.14	2433	42.95	2479	44.75
8610	7000	2047	30.03	2102	31.87	2155	33.70	2207	35.52	2256	37.33	2308	39.21	2358	41.08	2407	42.95	2454	44.81	2500	46.66
8856	7200	2073	31.56	2127	33.46	2180	35.34	2231	37.21	2281	39.08	2329	40.96	2379	42.88	2428	44.80	2475	46.72	2521	48.63
9102	7400	2098	33.15	2153	35.10	2206	37.03	2256	38.96	2305	40.88	2353	42.79	2401	44.73	2449	46.71	2496	48.68	2542	50.64

VOL CFM	OUT VEL	20" SP		22" SP		24" SP		26" SP		28" SP		30" SP		32" SP		34" SP		36" SP		38" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4920	4000	2295	25.34	2394	27.90	2488	30.49	2578	33.10												
5166	4200	●2306	●26.56	2405	29.22	2499	31.91	2590	34.61	2676	37.34										
5412	4400	2319	27.84	●2417	●30.57	2511	33.35	2601	36.15	2688	38.97	2771	41.81								
5658	4600	2333	29.16	2430	31.96	●2522	●34.81	2613	37.71	2699	40.63	2783	43.56	2863	46.52	2941	49.49				
5904	4800	2348	30.52	2444	33.42	2535	36.33	●2624	●39.29	2711	42.31	2794	45.34	2874	48.38	2952	51.45	3028	54.53		
6150	5000	2362	31.90	2458	34.90	2549	37.91	2637	40.94	●2722	●44.01	2805	47.14	2886	50.28	2964	53.44	3039	56.62	3112	59.81
6396	5200	2377	33.32	2472	36.41	2563	39.52	2651	42.65	2735	45.79	●2817	●48.97	2897	52.20	2975	55.46	3050	58.73	3124	62.01
6642	5400	2394	34.81	2486	37.95	2578	41.16	2665	44.38	2749	47.62	2830	50.87	●2909	●54.15	2986	57.50	3062	60.87	3135	64.24
6888	5600	2412	36.33	2503	39.57	2592	42.83	2679	46.15	2763	49.49	2844	52.84	2922	56.20	●2998	●59.58	3073	63.03	3146	66.51
7134	5800	2430	37.89	2521	41.23	2608	44.57	2693	47.96	2777	51.39	2858	54.84	2936	58.29	3011	61.76	●3085	●65.24	3157	68.80
7380	6000	2448	39.50	2539	42.93	2626	46.37	2709	49.82	2791	53.33	2872	56.87	2950	60.42	3025	63.99	3098	67.56	●3170	●71.14
7626	6200	2466	41.14	2557	44.67	2644	48.21	2727	51.76	2807	55.32	2886	58.94	2964	62.59	3039	66.25	3112	69.92	3183	73.60
7872	6400	2484	42.81	2575	46.45	2661	50.09	2744	53.73	2824	57.39	2901	61.06	2978	64.79	3053	68.55	3126	72.31	3197	76.08
8118	6600	2504	44.63	2593	48.27	2679	52.01	2762	55.75	2842	59.51	2919	63.27	2993	67.04	3067	70.88	3140	74.74	3211	78.61

Standard Material Handling Wheel

SIZE 17M

MAXIMUM OPERATING SPEEDS

Wheel Diameter	29.63 inches	753 mm
Wheel Circumference	7.76 feet	2.365 m
Inlet Diameter/Area	17 inches dia./1.507 sq. ft.	432 mm/.1400 m ²
Outlet Size/Area	16.31 x 14.50 inches/ 1.580 sq. ft.	414 mm x 368 mm/ .1468 m ²
Tip Speed	7.76 x RPM ft./minute	2.365 x RPM m/minute

SIZE 17M	-20° to 150°F -29° to 66°C
STD	1934
I SERIES	2192
H SERIES	2837

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1896	1200	367	0.28	475	0.50	641	0.99														
2212	1400	387	0.36	492	0.61	652	1.15	781	1.74												
2528	1600	410	0.45	510	0.73	665	1.33	791	1.97	901	2.65										
2844	1800	433	0.56	528	0.87	680	1.53	804	2.23	911	2.96	1007	3.72								
3160	2000	459	0.69	550	1.03	697	1.74	817	2.50	923	3.29	1018	4.11	1104	4.96						
3476	2200	486	0.85	572	1.22	715	1.99	832	2.80	935	3.64	1029	4.52	1115	5.42	1194	6.35				
3792	2400	514	1.02	595	1.42	733	2.26	849	3.11	950	4.02	1041	4.96	1126	5.91	1205	6.89	1279	7.90	1348	8.92
4108	2600	543	1.23	619	1.65	752	2.55	866	3.46	966	4.42	1055	5.41	1139	6.43	1216	7.47	1289	8.53	1359	9.61
4424	2800	573	1.46	646	1.92	774	2.88	884	3.85	982	4.85	1071	5.91	1151	6.97	1229	8.07	1301	9.19	1369	10.32
4740	3000	604	1.73	673	2.21	796	3.23	903	4.27	999	5.32	1087	6.42	1167	7.55	1241	8.70	1313	9.88	1381	11.07
5056	3200	635	2.03	700	2.54	819	3.62	922	4.71	1018	5.84	1103	6.96	1183	8.16	1257	9.37	1326	10.60	1394	11.85
5372	3400	666	2.36	728	2.90	842	4.03	944	5.20	1036	6.39	1121	7.58	1199	8.80	1273	10.08	1341	11.36	1406	12.66
5688	3600	697	2.73	757	3.30	865	4.48	966	5.73	1055	6.97	1139	8.23	1216	9.48	1289	10.81	1357	12.16	1421	13.52
6004	3800	729	3.15	786	3.74	891	4.99	988	6.29	1075	7.58	1158	8.91	1234	10.24	1305	11.57	1373	12.99	1437	14.41
6320	4000	761	3.60	816	4.23	918	5.53	1011	6.88	1097	8.25	1177	9.63	1253	11.03	1323	12.43	1389	13.85	1453	15.34
6636	4200	793	4.10	847	4.76	945	6.12	1034	7.52	1119	8.96	1196	10.39	1271	11.86	1341	13.33	1407	14.79	1469	16.30
6952	4400	826	4.65	878	5.34	972	6.75	1058	8.20	1142	9.71	1218	11.21	1290	12.73	1360	14.27	1425	15.80	1486	17.32
7268	4600	858	5.25	909	5.97	999	7.43	1084	8.94	1165	10.51	1240	12.08	1310	13.64	1379	15.25	1443	16.85	1504	18.45
7584	4800	891	5.90	940	6.65	1027	8.15	1110	9.74	1188	11.35	1263	12.99	1331	14.62	1397	16.27	1462	17.95	1523	19.62
7900	5000	924	6.60	971	7.38	1056	8.93	1137	10.58	1211	12.23	1285	13.95	1353	15.66	1417	17.35	1481	19.09	1541	20.83
8216	5200	958	7.36	1003	8.16	1085	9.78	1164	11.48	1236	13.18	1308	14.96	1376	16.74	1439	18.50	1500	20.27	1560	22.09
8532	5400	991	8.17	1034	9.00	1115	10.69	1191	12.44	1262	14.21	1331	16.02	1398	17.87	1461	19.70	1520	21.53	1579	23.39
8848	5600	1024	9.05	1066	9.91	1145	11.66	1218	13.45	1289	15.29	1354	17.13	1421	19.05	1483	20.96	1542	22.85	1598	24.74
9164	5800	1058	9.99	1098	10.87	1175	12.69	1246	14.52	1315	16.43	1379	18.32	1444	20.29	1506	22.27	1564	24.24	1619	26.19

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4424	2800	1435	11.48	1497	12.65	1557	13.83														
4740	3000	1445	12.27	1507	13.51	1567	14.75	1624	16.01	1679	17.28										
5056	3200	1457	13.12	1518	14.39	1577	15.69	1634	17.01	1689	18.35	1742	19.69	1793	21.04						
5372	3400	1470	13.99	1531	15.33	1589	16.68	1645	18.04	1699	19.44	1752	20.84	1803	22.25	1853	23.68	1901	25.11		
5688	3600	1483	14.89	1543	16.30	1601	17.71	1657	19.13	1710	20.56	1763	22.02	1814	23.50	1863	24.98	1911	26.48	1958	27.98
6004	3800	1498	15.84	1556	17.29	1614	18.77	1669	20.25	1723	21.74	1774	23.25	1824	24.76	1873	26.31	1921	27.87	1968	29.43
6320	4000	1514	16.84	1572	18.34	1627	19.86	1682	21.41	1735	22.96	1786	24.53	1836	26.10	1884	27.68	1931	29.29	1978	30.91
6636	4200	1530	17.86	1587	19.43	1642	21.01	1695	22.60	1748	24.21	1799	25.84	1849	27.48	1897	29.12	1943	30.77	1989	32.43
6952	4400	1546	18.93	1603	20.56	1658	22.21	1711	23.86	1762	25.51	1812	27.19	1861	28.89	1909	30.60	1956	32.31	2001	34.03
7268	4600	1562	20.04	1619	21.73	1674	23.44	1727	25.15	1777	26.87	1826	28.60	1874	30.34	1922	32.11	1968	33.89	2013	35.67
7584	4800	1581	21.28	1636	22.94	1690	24.71	1743	26.49	1793	28.27	1842	30.06	1889	31.86	1935	33.66	1981	35.50	2026	37.34
7900	5000	1599	22.56	1654	24.29	1706	26.02	1759	27.86	1809	29.71	1858	31.57	1905	33.43	1951	35.29	1995	37.17	2039	39.05
8216	5200	1617	23.89	1672	25.69	1724	27.48	1775	29.28	1825	31.20	1874	33.12	1921	35.04	1966	36.97	2011	38.91	2054	40.85
8532	5400	1636	25.27	1690	27.14	1743	29.00	1793	30.86	1841	32.72	1890	34.71	1937	36.70	1982	38.69	2026	40.69	2069	42.69
8848	5600	1655	26.69	1709	28.64	1761	30.57	1811	32.50	1859	34.42	1906	36.34	1953	38.40	1998	40.46	2042	42.52	2085	44.59
9164	5800	1674	28.17	1728	30.18	1780	32.19	1829	34.19	1877	36.18	1924	38.17	1969	40.16	2014	42.27	2058	44.40	2101	46.53
9480	6000	1694	29.72	1747	31.79	1798	33.86	1848	35.93	1896	38.00	1942	40.06	1987	42.11	2030	44.16	2074	46.33	2117	48.52
9796	6200	1715	31.36	1765	33.44	1817	35.59	1866	37.73	1914	39.87	1960	42.00	2005	44.12	2048	46.24	2091	48.35	2133	50.56
10112	6400	1737	33.06	1787	35.21	1836	37.38	1885	39.59	1933	41.80	1979	43.99	2023	46.19	2067	48.37	2109	50.55	2150	52.73
10428	6600	1759	34.83	1809	37.04	1856	39.25	1904	41.50	1951	43.78	1997	46.05	2042	48.31	2085	50.57	2127	52.82	2168	55.06
10744	6800	1782	36.66	1831	38.94	1878	41.22	1923	43.49	1970	45.82	2016	48.16	2060	50.50	2103	52.82	2145	55.14	2186	57.46
11060	7000	1804	38.55	1853	40.91	1900	43.25	1945	45.59	1989	47.93	2035	50.34	2079	52.75	2122	55.14	2163	57.53	2204	59.91
11376	7200	1827	40.51	1875	42.94	1922	45.36	1967	47.76	2010	50.16	2053	52.58	2097	55.06	2140	57.52	2182	59.98	2222	62.44
11692	7400	1850	42.55	1898	45.05	1944	47.53	1989	50.01	2032	52.48	2074	54.93	2116	57.43	2159	59.97	2200	62.50	2241	65.02

VOL CFM	OUT VEL	20" SP		22" SP		24" SP		26" SP		28" SP		30" SP		32" SP		34" SP		36" SP		38" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6320	4000	2023	32.55	2111	35.85	2194	39.17														
6636	4200	2034	34.12	2121	37.54	2204	40.99	2283	44.47	2360	47.97										
6952	4400	2045	35.76	2131	39.27	2214	42.84	2294	46.44	2370	50.06	2444	53.71								
7268	4600	2057	37.46	2142	41.06	2224	44.72	2304	48.44	2380	52.19	2454	55.96	2525	59.76	2593	63.58				
7584	4800	2070	39.20	2155	42.92	2235	46.67	2314	50.48	2390	54.35	2464	58.24	2535	62.16	2603	66.10	2670	70.06		
7900	5000	2083	40.97	2167	44.82	2248	48.69	2325	52.59	2400	56.54	2474	60.55	2545	64.59	2613	68.65	2680	72.73	2744	76.83
8216	5200	2096	42.79	2180	46.76	2260	50.76	2337	54.78	2412	58.81	2484	62.90	2555	67.06	2623	71.24	2690	75.44	2754	79.66
8532	5400	2111	44.70	2192	48.74	2273	52.87	2350	57.01	2424	61.17	2495	65.35	2565	69.57	2633	73.87	2700	78.19	2764	82.53
8848	5600	2127	46.66	2207	50.82	2285	55.01	2362	59.28	2436	63.57	2508	67.87	2576	72.19	2643	76.57	2710	80.97	2774	85.43
9164	5800	2143	48.67	2223	52.95	2300	57.25	2375	61.60	2449	66.01	2520	70.44	2589	74.88	2655	79.33	2720	83.80	2784	88.37
9480	6000	2158	50.72	2239	55.13	2315	59.55	2389	63.99	2461	68.49	2532	73.05	2601	77.61	2668	82.19	2732	86.78	2795	91.39
9796	6200	2174	52.83	2254	57.36	2331	61.91	2404	66.47	2475	71.05	2545	75.70	2613	80.39	2680	85.09	2744	89.81	2807	94.53
10112	6400	2190	54.98	2270	59.65	2346	64.32	2420	69.01	2490	73.71	2558	78.42	2626	83.22	2692	88.04	2757	92.88	2819	97.73
10428	6600	2207	57.30	2286	61.98	2362	66.79	2435	71.60	2505	76.42	2573	81.26	2639	86.10	2705	91.04	2769	96.00	2831	100.97

MAXIMUM OPERATING SPEEDS

SIZE 19M	-20° to 150°F -29° to 66°C
STD	1736
I SERIES	1968
H SERIES	2546

Wheel Diameter	33 inches	838 mm
Wheel Circumference	8.64 feet	2.633 m
Inlet Diameter/Area	19 inches dia./1.867 sq. ft.	483 mm/.1734 m ²
Outlet Size/Area	18.06 x 16.38 inches/ 1.960 sq. ft.	459 mm x 416 mm/ .1821 m ²
Tip Speed	8.64 x RPM ft./minute	2.633 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2352	1200	329	0.35	427	0.63	575	1.23														
2744	1400	347	0.45	441	0.75	•585	•1.43	701	2.16												
3136	1600	368	0.56	457	0.91	597	1.65	•710	•2.45	808	3.29										
3528	1800	389	0.70	474	1.08	611	1.89	721	2.76	•818	•3.67	904	4.62								
3920	2000	412	0.86	493	1.28	625	2.16	733	3.10	828	4.08	913	5.10	991	6.15						
4312	2200	437	1.05	513	1.51	641	2.46	747	3.47	840	4.52	•923	•5.61	1001	6.73	1072	7.87				
4704	2400	462	1.27	534	1.77	658	2.80	762	3.86	852	4.99	935	6.15	•1011	•7.33	1082	8.55	1148	9.80	1210	11.06
5096	2600	488	1.52	556	2.05	675	3.16	777	4.30	867	5.49	947	6.72	1022	7.98	•1092	•9.26	•1157	•10.58	1220	11.92
5488	2800	515	1.81	580	2.38	694	3.57	794	4.78	881	6.02	961	7.33	1034	8.65	1103	10.02	1168	11.39	•1229	•12.80
5880	3000	542	2.14	604	2.74	714	4.01	811	5.30	897	6.60	975	7.97	1047	9.37	1114	10.80	1179	12.26	1240	13.73
6272	3200	570	2.51	628	3.15	735	4.49	828	5.85	914	7.24	990	8.64	1062	10.13	1128	11.63	1190	13.15	1251	14.70
6664	3400	597	2.93	653	3.59	755	5.00	847	6.45	930	7.92	1006	9.40	1076	10.91	1142	12.50	1204	14.09	1263	15.71
7056	3600	626	3.39	679	4.09	776	5.56	867	7.10	947	8.64	1023	10.21	1091	11.76	1157	13.40	1218	15.08	1276	16.77
7448	3800	654	3.90	706	4.64	800	6.19	887	7.80	965	9.41	1039	11.05	1108	12.70	1171	14.35	1233	16.11	1290	17.88
7840	4000	683	4.46	733	5.25	824	6.86	908	8.54	985	10.24	1056	11.95	1125	13.68	1187	15.41	1247	17.18	1304	19.03
8232	4200	712	5.08	760	5.91	848	7.59	928	9.33	1005	11.12	1074	12.89	1141	14.71	1204	16.53	1263	18.34	1319	20.22
8624	4400	741	5.76	788	6.62	872	8.37	949	10.16	1025	12.05	1093	13.91	1158	15.79	1221	17.70	1279	19.60	1334	21.49
9016	4600	770	6.51	815	7.40	897	9.21	973	11.09	1046	13.03	1113	14.98	1176	16.92	1237	18.91	1296	20.90	1350	22.88
9408	4800	800	7.31	843	8.24	922	10.11	996	12.08	1066	14.07	1133	16.11	1195	18.14	1254	20.18	1312	22.26	1367	24.33
9800	5000	830	8.18	872	9.15	947	11.08	1020	13.13	1087	15.17	1154	17.30	1215	19.42	1272	21.52	1329	23.68	1384	25.83
10192	5200	859	9.12	900	10.12	974	12.13	1045	14.24	1109	16.35	1174	18.56	1235	20.76	1292	22.95	1346	25.14	1400	27.39
10584	5400	889	10.13	928	11.17	1001	13.26	1069	15.42	1133	17.62	1195	19.87	1255	22.16	1311	24.44	1364	26.70	1417	29.01
10976	5600	919	11.22	957	12.28	1028	14.46	1094	16.68	1157	18.96	1216	21.25	1276	23.63	1331	26.00	1384	28.35	1434	30.69
11368	5800	949	12.38	986	13.48	1055	15.74	1119	18.00	1181	20.37	1238	22.72	1296	25.17	1352	27.62	1404	30.06	1454	32.49

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5488	2800	1288	14.24	1344	15.69	1397	17.16														
5880	3000	•1297	•15.22	1353	16.75	1407	18.30	1458	19.86	1507	21.43										
6272	3200	1308	16.27	•1363	•17.85	•1416	•19.47	1467	21.11	1516	22.76	1564	24.42								
6664	3400	1320	17.36	1374	19.02	1426	20.69	•1476	•22.38	1526	24.11	1573	25.85	1619	27.61	1663	29.37	1706	31.15		
7056	3600	1331	18.47	1386	20.21	1437	21.97	1487	23.73	•1535	•25.50	•1582	•27.32	1628	29.15	1672	30.99	1716	32.84	1757	34.71
7448	3800	1345	19.65	1397	21.45	1449	23.28	1499	25.12	1546	26.97	1592	28.84	•1637	•30.72	1682	32.64	1725	34.57	1767	36.51
7840	4000	1359	20.88	1411	22.75	1460	24.63	1510	26.55	1558	28.49	1604	30.43	1648	32.38	•1691	•34.34	•1734	•36.33	1776	38.35
8232	4200	1373	22.16	1425	24.11	1474	26.07	1522	28.03	1569	30.04	1615	32.06	1659	34.09	1703	36.13	1744	38.17	•1785	•40.23
8624	4400	1388	23.48	1439	25.51	1489	27.54	1536	29.59	1581	31.65	1626	33.73	1671	35.84	1714	37.96	1756	40.08	1796	42.22
9016	4600	1403	24.86	1454	26.95	1503	29.07	1550	31.20	1596	33.33	1639	35.48	1682	37.63	1725	39.83	1767	42.04	1807	44.25
9408	4800	1419	26.39	1468	28.45	1517	30.65	1564	32.85	1610	35.07	1654	37.29	1696	39.52	1737	41.76	1778	44.03	1819	46.32
9800	5000	1435	27.98	1485	30.13	1532	32.27	1579	34.56	1624	36.86	1668	39.16	1710	41.47	1751	43.78	1791	46.10	1830	48.44
10192	5200	1452	29.63	1501	31.86	1548	34.09	1593	36.32	1638	38.70	1682	41.08	1724	43.47	1765	45.86	1805	48.26	1844	50.67
10584	5400	1469	31.34	1517	33.66	1564	35.97	1609	38.28	1653	40.59	1696	43.05	1739	45.52	1779	48.00	1819	50.48	1858	52.96
10976	5600	1485	33.11	1534	35.52	1581	37.92	1626	40.31	1669	42.70	1711	45.08	1753	47.63	1794	50.19	1839	52.75	1872	55.31
11368	5800	1502	34.94	1551	37.44	1597	39.93	1642	42.41	1685	44.88	1727	47.35	1767	49.81	1808	52.43	1847	55.08	1886	57.72
11760	6000	1520	36.86	1568	39.43	1614	42.00	1659	44.57	1702	47.13	1743	49.68	1784	52.23	1823	54.77	1862	57.46	1900	60.19
12152	6200	1540	38.90	1585	41.48	1631	44.15	1675	46.80	1718	49.45	1760	52.09	1800	54.72	1839	57.35	1877	59.97	1915	62.72
12544	6400	1560	41.01	1604	43.67	1648	46.36	1692	49.10	1735	51.84	1776	54.57	1816	57.29	1855	60.00	1893	62.71	1930	65.41
12936	6600	1579	43.19	1624	45.94	1666	48.68	1709	51.48	1752	54.30	1793	57.12	1833	59.92	1871	62.72	1909	65.51	1946	68.30
13328	6800	1599	45.46	1643	48.30	1686	51.12	1727	53.94	1769	56.84	1810	59.74	1849	62.64	1888	65.52	1926	68.40	1962	71.27
13720	7000	1620	47.81	1663	50.74	1705	53.65	1746	56.55	1786	59.45	1826	62.44	1866	65.42	1905	68.40	1942	71.36	1978	74.32
14112	7200	1640	50.25	1683	53.26	1725	56.26	1766	59.24	1805	62.22	1843	65.21	1883	68.29	1921	71.35	1959	74.40	1995	77.44
14504	7400	1660	52.77	1703	55.87	1745	58.96	1785	62.03	1824	65.09	1862	68.13	1900	71.23	1938	74.38	1975	77.52	2011	80.65

VOL CFM	OUT VEL	20" SP		22" SP		24" SP		26" SP		28" SP		30" SP		32" SP		34" SP		36" SP		38" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7840	4000	1816	40.38	1895	44.47	1969	48.59														
8232	4200	●1826	●42.33	1904	46.57	1978	50.85	2050	55.16	2119	59.51										
8624	4400	1836	44.36	●1913	●48.71	1987	53.14	2059	57.61	2128	62.11	2194	66.64								
9016	4600	1847	46.47	1923	50.93	●1997	●55.47	2068	60.09	2137	64.74	2203	69.42	2266	74.13	2328	78.87				
9408	4800	1858	48.62	1934	53.24	2007	57.89	●2077	●62.62	2146	67.42	2212	72.25	2275	77.11	2337	82.00	2397	86.91		
9800	5000	1869	50.82	1945	55.60	2018	60.40	2087	65.23	●2155	●70.13	2221	75.12	2284	80.13	2346	85.16	2406	90.23	2464	95.32
10192	5200	1881	53.08	1957	58.01	2029	62.97	2098	67.95	2165	72.96	●2230	●78.03	2293	83.19	2355	88.38	2415	93.59	2473	98.82
10584	5400	1895	55.45	1968	60.46	2040	65.58	2109	70.72	2176	75.88	2240	81.06	●2302	●86.30	2364	91.63	2424	97.00	2481	102.38
10976	5600	1909	57.88	1981	63.03	2051	68.24	2121	73.54	2187	78.86	2251	84.19	2313	89.55	●2373	●94.94	2433	100.45	2490	105.98
11368	5800	1923	60.37	1995	65.68	2064	71.01	2132	76.41	2198	81.88	2262	87.37	2324	92.88	2384	98.41	●2442	●103.69	2499	109.63
11760	6000	1937	62.92	2009	68.39	2078	73.87	2144	79.38	2209	84.97	2273	90.61	2335	96.28	2395	101.96	2453	107.65	●2509	●113.8
12152	6200	1952	65.53	2024	71.16	2092	76.80	2158	82.46	2221	88.13	2284	93.90	2346	99.72	2406	105.56	2464	111.41	2520	117.27
12544	6400	1966	68.20	2038	73.99	2106	79.79	2172	85.60	2235	91.43	2296	97.28	2357	103.23	2417	109.22	2475	115.22	2531	121.23
12936	6600	1982	71.08	2052	76.89	2120	82.85	2186	88.82	2249	94.80	2310	100.80	2369	106.81	2428	112.93	2486	119.09	2542	125.26

Standard Material Handling Wheel

SIZE 21M

MAXIMUM OPERATING SPEEDS

Wheel Diameter	36.50 inches	927 mm
Wheel Circumference	9.56 feet	2.914 m
Inlet Diameter/Area	21 inches dia./2.290 sq. ft.	533 mm/.2127 m ²
Outlet Size/Area	19.81 x 18.13 inches/ 2.410 sq. ft.	503 mm x 461 mm/ .2239 m ²
Tip Speed	9.56 x RPM ft./minute	2.914 x RPM m/minute

SIZE 21M	-20° to 150°F -29° to 66°C
STD	1570
I SERIES	1779
H SERIES	2302

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2892	1200	294	0.42	384	0.74	•522	•1.45														
3374	1400	309	0.52	396	0.90	530	1.69	636	2.54												
3856	1600	326	0.65	409	1.08	539	1.96	•644	•2.89	734	3.86										
4338	1800	345	0.81	423	1.28	549	2.26	652	3.28	•741	•4.32	820	5.43								
4820	2000	365	1.00	439	1.51	561	2.59	661	3.69	750	4.84	•828	•6.00	899	7.23	965	8.47	1034	10.62		
5302	2200	386	1.22	456	1.76	574	2.94	672	4.14	758	5.37	836	6.64	•907	•7.91	972	9.26	1041	11.52	1098	13.00
5784	2400	408	1.49	474	2.05	588	3.33	684	4.62	767	5.93	845	7.30	915	8.68	•980	•10.07	•1049	•12.46	•1106	•14.02
6266	2600	430	1.79	494	2.39	602	3.74	697	5.14	779	6.55	853	7.98	924	9.47	988	10.96	•1049	•12.46	•1106	•14.02
6748	2800	453	2.13	514	2.78	618	4.19	710	5.70	791	7.21	864	8.73	932	10.29	997	11.88	1057	13.49	1114	15.10
7230	3000	476	2.51	534	3.20	635	4.67	723	6.29	804	7.89	877	9.52	943	11.16	1006	12.83	1066	14.54	1122	16.26
7712	3200	499	2.95	555	3.68	652	5.20	738	6.92	817	8.63	889	10.36	955	12.09	1015	13.83	1074	15.63	1131	17.45
8194	3400	524	3.45	577	4.22	670	5.81	754	7.59	831	9.41	901	11.23	967	13.07	1027	14.91	1084	16.76	1139	18.67
8676	3600	549	4.00	600	4.81	690	6.48	771	8.30	844	10.23	915	12.16	979	14.09	1039	16.04	1095	17.98	1148	19.94
9158	3800	574	4.62	622	5.46	710	7.22	787	9.06	860	11.10	928	13.14	992	15.16	1051	17.20	1108	19.26	1160	21.31
9640	4000	599	5.29	645	6.16	730	8.00	805	9.88	876	12.01	942	14.16	1005	16.29	1064	18.42	1120	20.58	1172	22.74
10122	4200	625	6.04	668	6.93	750	8.85	824	10.83	893	12.98	957	15.23	1019	17.47	1077	19.71	1132	21.95	1184	24.21
10604	4400	650	6.85	691	7.77	771	9.77	843	11.85	910	14.00	973	16.35	1032	18.70	1090	21.05	1145	23.39	1197	25.74
11086	4600	676	7.73	715	8.69	793	10.78	863	12.93	927	15.07	990	17.53	1048	19.99	1104	22.45	1158	24.89	1209	27.33
11568	4800	702	8.70	740	9.69	815	11.86	883	14.09	946	16.33	1006	18.77	1064	21.33	1118	23.90	1172	26.45	1223	29.00
12050	5000	727	9.74	765	10.78	837	13.02	903	15.31	965	17.66	1023	20.07	1080	22.74	1134	25.40	1185	28.07	1236	30.73
12532	5200	753	10.86	789	11.95	859	14.26	924	16.61	985	19.07	1041	21.48	1097	24.21	1150	26.98	1199	29.75	1249	32.51
13014	5400	780	12.07	815	13.21	882	15.58	945	18.00	1005	20.55	1060	23.06	1114	25.74	1166	28.62	1216	31.49	1263	34.36
13496	5600	806	13.37	840	14.55	905	16.98	966	19.51	1025	22.12	1080	24.73	1131	27.35	1183	30.33	1232	33.30	1278	36.28
13978	5800	832	14.77	865	15.99	928	18.48	988	21.11	1045	23.76	1099	26.49	1149	29.17	1200	32.11	1248	35.19	1294	38.27

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6748	2800	•1167	•16.75	1219	18.45	1268	20.16	1315	21.89												
7230	3000	1175	17.98	•1226	•19.71	1275	21.52	1322	23.34	1367	25.18	1411	27.03								
7712	3200	1184	19.27	1234	21.11	•1283	•22.95	•1329	•24.82	1375	26.76	1418	28.70	1460	30.66	1501	32.63				
8194	3400	1192	20.60	1243	22.53	1291	24.47	1338	26.42	•1382	•28.38	•1426	•30.40	1468	32.45	1508	34.52	1548	36.59	1587	38.68
8676	3600	1201	21.96	1252	24.00	1300	26.04	1346	28.09	1391	30.14	1433	32.21	•1475	•34.28	1516	36.44	1555	38.61	1594	40.78
9158	3800	1210	23.37	1260	25.49	1308	27.64	1355	29.79	1399	31.95	1442	34.11	1483	36.28	•1523	•38.45	•1563	•40.66	1601	42.93
9640	4000	1222	24.90	1270	27.06	1317	29.28	1363	31.54	1408	33.80	1450	36.06	1492	38.33	1532	40.60	1571	42.88	•1609	•45.16
10122	4200	1234	26.48	1282	28.74	1327	31.00	1372	33.32	1416	35.68	1459	38.05	1500	40.42	1540	42.79	1579	45.17	1617	47.55
10604	4400	1246	28.11	1293	30.47	1339	32.84	1382	35.21	1425	37.61	1467	40.08	1509	42.55	1549	45.03	1588	47.51	1625	49.99
11086	4600	1258	29.79	1306	32.26	1351	34.73	1394	37.20	1436	39.67	1476	42.15	1517	44.73	1557	47.31	1596	49.89	1634	52.47
11568	4800	1271	31.54	1318	34.11	1363	36.68	1406	39.26	1447	41.83	1488	44.40	1526	46.97	1566	49.63	1605	52.31	1642	55.00
12050	5000	1284	33.37	1330	36.01	1375	38.69	1418	41.37	1459	44.04	1499	46.72	1538	49.39	1576	52.06	1613	54.79	1651	57.57
12532	5200	1297	35.27	1343	38.02	1387	40.76	1430	43.54	1471	46.32	1511	49.10	1550	51.87	1588	54.65	1624	57.42	1659	60.20
13014	5400	1311	37.23	1356	40.08	1400	42.93	1442	45.77	1484	48.66	1523	51.54	1562	54.42	1599	57.30	1636	60.17	1671	63.05
13496	5600	1324	39.25	1370	42.22	1413	45.17	1455	48.12	1496	51.06	1536	54.05	1574	57.03	1611	60.01	1648	62.99	1683	65.96
13978	5800	1338	41.34	1383	44.42	1427	47.48	1469	50.53	1509	53.58	1548	56.62	1586	59.71	1623	62.79	1660	65.87	1695	68.95
14460	6000	1355	43.50	1397	46.68	1440	49.86	1482	53.02	1522	56.17	1561	59.31	1598	62.45	1635	65.64	1672	68.83	1707	72.01
14942	6200	1371	45.75	1412	49.02	1454	52.30	1495	55.58	1535	58.84	1574	62.09	1611	65.33	1648	68.56	1684	71.85	1719	75.13
15424	6400	1387	48.06	1429	51.45	1468	54.83	1509	58.20	1549	61.57	1587	64.93	1624	68.28	1661	71.62	1696	74.96	1731	78.33
15906	6600	1404	50.47	1445	53.95	1484	57.43	1523	60.91	1562	64.39	1600	67.85	1638	71.31	1674	74.76	1709	78.20	1743	81.63
16388	6800	1420	52.95	1461	56.54	1501	60.12	1539	63.70	1575	67.28	1614	70.85	1651	74.42	1687	77.97	1722	81.52	1756	85.05
16870	7000	1437	55.51	1478	59.21	1517	62.89	1555	66.58	1591	70.25	1627	73.93	1664	77.61	1700	81.27	1735	84.92	1769	88.56
17352	7200	1454	58.17	1494	61.97	1533	65.76	1571	69.54	1607	73.32	1642	77.10	1678	80.88	1714	84.65	1749	88.40	1782	92.15
17834	7400	1472	61.07	1511	64.81	1550	68.71	1587	72.59	1623	76.48	1659	80.35	1693	84.23	1727	88.11	1762	91.97	1796	95.83

VOL CFM	OUT VEL	20" SP		22" SP		24" SP		26" SP		28" SP		30" SP		32" SP		34" SP		36" SP		38" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9158	3800	1638	45.21	1710	49.80	1779	54.44														
9640	4000	•1646	•47.48	1718	52.26	1786	57.08	1852	61.93												
10122	4200	1654	49.93	•1725	•54.76	1793	59.76	1859	64.80	1922	69.87	1983	74.97								
10604	4400	1662	52.47	1733	57.45	•1801	•62.49	1866	67.71	1929	72.96	1990	78.24	2048	83.56						
11086	4600	1671	55.06	1741	60.23	1809	65.43	•1873	•70.66	1936	76.09	1997	81.56	2055	87.05	2112	92.58	2167	98.12		</

MAXIMUM OPERATING SPEEDS

SIZE 23M	-20° to 150°F -29° to 66°C
STD	1432
I SERIES	1623
H SERIES	2101

Wheel Diameter	40.00 inches	1016 mm
Wheel Circumference	10.47 feet	3.191 m
Inlet Diameter/Area	23 inches dia./2.76 sq. ft.	584 mm/2564 m ²
Outlet Size/Area	21.69 x 19.88 inches/ 2.890 sq. ft.	551 mm x 505 mm/ .2685 m ²
Tip Speed	10.47 x RPM ft./minute	3.191 x RPM m/minute

VOL CFM	OUT VEL	1/2" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3468	1200	268	0.50	350	0.89	•476	•1.73														
4046	1400	282	0.63	361	1.08	483	2.03	580	3.04												
4624	1600	297	0.78	373	1.30	491	2.35	•587	•3.46	669	4.63										
5202	1800	315	0.97	386	1.54	501	2.71	595	3.93	•676	•5.18										
5780	2000	333	1.20	400	1.80	512	3.10	603	4.42	684	5.80	•755	•7.20	820	8.67						
6358	2200	352	1.47	416	2.10	524	3.52	613	4.96	692	6.44	763	7.96	•827	•9.49	887	11.10	943	12.74		
6936	2400	372	1.78	432	2.45	536	3.99	624	5.54	700	7.11	771	8.75	835	10.40	•894	•12.07	950	13.82	1002	15.59
7514	2600	392	2.14	450	2.87	549	4.48	635	6.16	711	7.85	779	9.57	843	11.35	902	13.14	•957	•14.94	•1009	•16.81
8092	2800	413	2.55	468	3.32	564	5.02	648	6.83	722	8.64	789	10.46	851	12.33	910	14.25	964	16.17	1016	18.11
8670	3000	434	3.01	487	3.83	579	5.60	660	7.54	733	9.46	800	11.42	860	13.37	917	15.39	972	17.44	1024	19.49
9248	3200	455	3.53	506	4.41	594	6.23	673	8.29	745	10.35	811	12.41	871	14.49	926	16.58	980	18.74	1031	20.92
9826	3400	478	4.12	526	5.05	611	6.95	688	9.09	758	11.28	822	13.46	882	15.66	937	17.87	988	20.09	1039	22.38
10404	3600	500	4.79	547	5.75	629	7.76	703	9.95	770	12.26	834	14.57	893	16.88	948	19.22	999	21.56	1048	23.90
10982	3800	523	5.52	567	6.53	647	8.64	718	10.86	784	13.30	846	15.74	905	18.17	959	20.62	1010	23.08	1058	25.55
11560	4000	546	6.33	588	7.37	665	9.58	734	11.83	799	14.39	859	16.96	917	19.53	970	22.08	1021	24.67	1069	27.25
12138	4200	569	7.22	609	8.29	684	10.60	751	12.97	814	15.55	873	18.24	929	20.94	982	23.62	1032	26.30	1080	29.02
12716	4400	592	8.19	630	9.29	703	11.69	769	14.19	830	16.77	888	19.59	941	22.41	995	25.23	1044	28.03	1092	30.85
13294	4600	616	9.25	652	10.39	723	12.90	787	15.49	845	18.06	903	21.01	956	23.95	1007	26.90	1056	29.83	1103	32.76
13872	4800	639	10.40	674	11.60	743	14.20	805	16.87	863	19.56	918	22.49	970	25.56	1019	28.63	1069	31.70	1115	34.76
14450	5000	663	11.65	697	12.90	763	15.59	824	18.33	880	21.15	933	24.05	985	27.25	1034	30.44	1081	33.64	1127	36.82
15028	5200	687	12.99	719	14.30	783	17.07	842	19.89	898	22.83	949	25.72	1000	29.00	1049	32.33	1094	35.65	1140	38.96
15606	5400	710	14.44	742	15.80	804	18.65	861	21.55	916	24.61	967	27.62	1016	30.84	1064	34.29	1109	37.73	1152	41.18
16184	5600	734	15.99	765	17.41	825	20.32	881	23.35	934	26.48	984	29.62	1031	32.76	1079	36.34	1123	39.90	1166	43.47
16762	5800	758	17.66	788	19.13	846	22.11	901	25.26	953	28.45	1002	31.72	1048	34.93	1094	38.47	1138	42.16	1181	45.85

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8092	2800	•1065	•20.08	1112	22.12	1157	24.18	1200	26.25												
8670	3000	1072	21.56	•1119	•23.64	1163	25.81	1206	27.99	1248	30.20	1287	32.42								
9248	3200	1080	23.11	1126	25.31	•1170	•27.51	•1213	•29.77	1254	32.09	1294	34.42	1332	36.77	1370	39.13				
9826	3400	1088	24.70	1134	27.02	1178	29.35	1220	31.68	•1261	•34.03	•1301	•36.46	1339	38.92	1376	41.39	1412	43.88	1448	46.38
10404	3600	1096	26.32	1142	28.77	1186	31.22	1228	33.68	1269	36.14	1308	38.62	•1346	•41.11	1383	43.70	1419	46.30	1454	48.91
10982	3800	1104	28.01	1150	30.57	1194	33.14	1236	35.72	1276	38.31	1316	40.90	1353	43.50	•1390	•46.11	•1426	•48.76	1461	51.48
11560	4000	1115	29.84	1158	32.43	1201	35.11	1244	37.81	1284	40.52	1323	43.24	1361	45.96	1398	48.68	1433	51.41	•1468	•54.15
12138	4200	1126	31.74	1169	34.45	1210	37.16	1251	39.95	1292	42.78	1331	45.62	1369	48.46	1405	51.31	1441	54.16	1475	57.01
12716	4400	1137	33.69	1180	36.53	1221	39.37	1261	42.20	1300	45.09	1339	48.05	1376	51.02	1413	53.99	1448	56.96	1483	59.94
13294	4600	1148	35.71	1191	38.67	1232	41.63	1272	44.60	1310	47.56	1347	50.54	1384	53.63	1421	56.72	1456	59.81	1491	62.91
13872	4800	1159	37.80	1202	40.88	1243	43.97	1282	47.06	1320	50.14	1357	53.22	1392	56.31	1429	59.50	1464	62.72	1498	65.94
14450	5000	1171	40.00	1213	43.16	1254	46.37	1293	49.59	1331	52.79	1368	56.00	1403	59.21	1437	62.41	1472	65.68	1506	69.03
15028	5200	1183	42.27	1225	45.56	1265	48.85	1304	52.19	1342	55.52	1379	58.85	1414	62.18	1448	65.51	1481	68.83	1514	72.17
15606	5400	1196	44.61	1237	48.04	1277	51.45	1316	54.86	1353	58.32	1390	61.78	1425	65.23	1459	68.68	1492	72.13	1524	75.58
16184	5600	1208	47.04	1249	50.59	1289	54.14	1327	57.67	1364	61.20	1401	64.78	1436	68.36	1470	71.93	1503	75.50	1535	79.07
16762	5800	1221	49.54	1262	53.23	1301	56.90	1339	60.56	1376	64.21	1412	67.86	1447	71.57	1481	75.26	1514	78.96	1546	82.65
17340	6000	1235	52.13	1274	55.94	1314	59.75	1352	63.54	1388	67.32	1424	71.09	1458	74.85	1492	78.68	1525	82.50	1557	86.31
17918	6200	1250	54.81	1288	58.74	1326	62.68	1364	66.60	1400	70.51	1436	74.41	1470	78.30	1503	82.18	1536	86.12	1568	90.06
18496	6400	1265	57.59	1303	61.64	1339	65.70	1376	69.75	1412	73.79	1448	77.82	1482	81.83	1515	85.84	1547	89.84	1579	93.89
19074	6600	1280	60.46	1318	64.64	1354	68.81	1389	72.99	1425	77.16	1460	81.32	1494	85.46	1527	89.59	1559	93.72	1590	97.83
19652	6800	1295	63.43	1333	67.74	1369	72.03	1403	76.33	1437	80.62	1472	84.91	1506	89.19	1539	93.44	1571	97.69	1602	101.93
20230	7000	1310	66.51	1348	70.93	1383	75.36	1418	79.77	1451	84.18	1484	88.60	1518	93.00	1551	97.39	1583	101.77	1614	106.13
20808	7200	1326	69.68	1363	74.24	1398	78.78	1433	83.32	1466	87.85	1498	92.38	1530	96.91	1563	101.44	1595	105.94	1626	110.44
21386	7400	1342	73.14	1378	77.65	1413	82.32	1448	86.98	1481	91.63	1513	96.28	1544	100.93	1575	105.58	1607	110.22	1638	114.84

VOL CFM	OUT VEL	20" SP		22" SP		24" SP		26" SP		28" SP		30" SP		32" SP		34" SP		36" SP		38" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10982	3800	1495	54.22	1560	59.73	1623	65.29														
11560	4000	•1501	•56.94	1567	62.68	1630	68.46	1690	74.28												
12138	4200	1509	59.88	•1574	•65.67	1636	71.67	1696	77.71	1754	83.80	1809	89.92								
12716	4400	1516	62.92	1581	68.89	•1643	•74.94	1703	81.20	1760	87.50	1815	93.84	1869	100.21						
13294	4600	1524	66.01	1589	72.22	1650	78.45	•1709	•84.73	1767	91.25	1822	97.81	1875	104.40	1927	111.03	1977	117.68		
13872	4800	1532	69.16	1596	75.62	1658	82.08	1717	88.56	•1773	•95.06	1828	101.84	1882	108.65	1934	115.49	1984	122.36	2032	129.26
14450	5000	1539	72.37	1604	79.07	1665	85.77	1724	92.49	1781	99.21	•1835	•105.9	1888	112.94	1940	120.00	1990	127.09	2039	134.21
15028	5200	1547	75.64	1612	82.58	1673	89.53	1732	96.48	1788	103.44	1843	110.41	•1895	•117.9	•1946	•124.5	1996	131.88	2045	139.21
15606	5400	1556	79.02	1616	86.15	1681	93.34	1739	100.53	1796	107.73	1850	114.94	1903	122.15	1953	129.37	•2003	•136.2	2051	144.27
16184	5600	1567	82.64	1627	89.78	1688	97.22	1747	104.65	1803	112.09	1858	119.53	1910	126.98	1961	134.43	2010	141.89	•2058	•149.9
16762	5800	1577	86.34	1638	93.71	1696	101.15	1755	108.83	1811	116.51	1865	124.19	1918	131.88	1968	139.56	2018	147.25	2065	154.95
17340	6000	1588	90.12	1648	97.73	1706	105.33	1762	113.08	1819	121.00	1873	128.92	1925	136.84	1976	144.76	2025	152.69	2073	160.61
17918	6200	1599	93.99	1659	101.85	1716	109.69	1771	117.52	1826	125.56	1881	133.72	1933	141.88	1983	150.03	2033	158.19	2080	166.35
18496	6400	1610	97.95	1670	106.05	1727	114.13	1782	122.20	1835	130.26	1888	138.58	1940	146.98	1991	155.38	2040	163.77	2088	172.16

MAXIMUM OPERATING SPEEDS

SIZE 29M	-20° to 150°F -29° to 66°C
STD	1135
I SERIES	1286
H SERIES	1664

Wheel Diameter	50.50 inches	1283 mm
Wheel Circumference	13.22 feet	4.029 m
Inlet Diameter/Area	29 inches dia./4.38 sq. ft.	737 mm/4069 m ²
Outlet Size/Area	27.38 x 24.88 inches/ 4.610 sq. ft.	695 mm x 632 mm/ .4283 m ²
Tip Speed	13.22 x RPM ft./minute	4.029 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5532	1200	212	0.80	278	1.42	•377	•2.77														
6454	1400	223	1.00	286	1.73	383	3.24	460	4.85												
7376	1600	236	1.24	296	2.07	389	3.75	•465	•5.52	530	7.39										
8298	1800	249	1.55	305	2.45	397	4.32	471	6.27	•536	•8.27	593	10.38								
9220	2000	264	1.92	317	2.88	406	4.95	478	7.05	542	9.25	•598	•11.48	650	13.82	697	16.21				
10142	2200	279	2.34	329	3.36	415	5.62	486	7.91	548	10.27	604	12.69	•655	•15.14	703	17.71	747	20.32		
11064	2400	295	2.84	342	3.92	425	6.36	494	8.84	555	11.34	611	13.96	661	16.60	•708	•19.26	752	22.04	794	24.86
11986	2600	311	3.42	357	4.57	435	7.15	503	9.83	563	12.53	617	15.27	668	18.11	714	20.97	•758	•23.84	•799	•26.81
12908	2800	327	4.07	371	5.31	447	8.01	513	10.89	572	13.78	625	16.70	674	19.67	721	22.73	764	25.80	805	28.89
13830	3000	344	4.80	386	6.12	459	8.94	523	12.02	581	15.10	633	18.21	681	21.33	727	24.54	770	27.81	811	31.10
14752	3200	361	5.63	401	7.04	471	9.94	533	13.23	590	16.51	642	19.80	690	23.13	734	26.45	776	29.89	817	33.37
15674	3400	379	6.58	417	8.06	484	11.10	545	14.51	600	18.00	651	21.48	699	24.99	742	28.52	783	32.05	823	35.71
16596	3600	397	7.64	433	9.19	498	12.40	557	15.87	610	19.57	661	23.26	707	26.94	751	30.67	792	34.40	830	38.13
17518	3800	415	8.82	449	10.43	513	13.79	569	17.32	621	21.22	671	25.12	717	29.00	760	32.90	800	36.83	839	40.76
18440	4000	433	10.11	466	11.78	527	15.30	581	18.88	633	22.97	680	27.07	726	31.16	769	35.23	809	39.36	847	43.49
19362	4200	451	11.53	483	13.25	542	16.92	595	20.71	645	24.82	692	29.12	736	33.42	778	37.70	818	41.97	856	46.30
20284	4400	470	13.08	499	14.84	557	18.67	609	22.65	657	26.76	703	31.27	746	35.77	788	40.26	827	44.73	865	49.22
21206	4600	488	14.78	517	16.60	573	20.60	624	24.72	670	28.82	715	33.52	757	38.22	798	42.92	837	47.61	874	52.27
22128	4800	507	16.61	534	18.52	589	22.67	638	26.93	683	31.22	727	35.89	769	40.79	808	45.69	847	50.59	883	55.46
23050	5000	525	18.60	552	20.60	605	24.89	653	29.27	697	33.76	739	38.38	781	43.48	819	48.58	856	53.68	893	58.76
23972	5200	544	20.75	570	22.83	621	27.25	667	31.75	712	36.45	752	41.05	793	46.29	831	51.59	867	56.88	903	62.18
24894	5400	563	23.06	588	25.23	637	29.77	682	34.41	726	39.28	766	44.09	805	49.22	843	54.72	878	60.21	913	65.71
25816	5600	582	25.55	607	27.80	654	32.46	698	37.29	740	42.27	780	47.28	817	52.29	855	57.99	890	63.68	924	69.37
26738	5800	601	28.21	625	30.55	670	35.31	714	40.34	755	45.42	794	50.63	830	55.76	867	61.39	902	67.28	935	73.17

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12908	2800	•844	•32.03	881	35.29	916	38.57	950	41.88												
13830	3000	849	34.40	•886	•37.71	922	41.16	956	44.65	988	48.17	1020	51.71								
14752	3200	856	36.86	892	40.37	•927	•43.89	•961	•47.49	994	51.18	1025	54.90	1056	58.65	1085	62.42				
15674	3400	862	39.40	898	43.10	933	46.81	967	50.54	•999	•54.28	•1030	•58.16	1061	62.08	1090	66.03	1119	70.00	1147	73.99
16596	3600	868	42.00	905	45.90	939	49.81	973	53.73	1005	57.66	1036	61.60	•1066	•65.58	1095	69.70	1124	73.85	1152	78.02
17518	3800	875	44.69	911	48.76	946	52.87	979	56.99	1011	61.11	1042	65.25	1072	69.39	•1101	•73.55	•1129	•77.77	1157	82.12
18440	4000	883	47.61	918	51.75	952	56.01	985	60.32	1017	64.65	1048	68.98	1078	73.31	1107	77.66	1135	82.01	•1163	•86.38
19362	4200	892	50.63	926	54.96	959	59.29	991	63.73	1023	68.25	1054	72.78	1084	77.31	1113	81.85	1141	86.40	1169	90.95
20284	4400	901	53.75	935	58.28	967	62.81	999	67.34	1030	71.94	1061	76.66	1090	81.39	1119	86.13	1147	90.87	1175	95.61
21206	4600	909	56.97	943	61.70	976	66.43	1007	71.15	1037	75.88	1067	80.63	1097	85.55	1125	90.48	1154	95.42	1181	100.36
22128	4800	918	60.32	952	65.23	985	70.15	1016	75.08	1046	80.00	1075	84.92	1103	89.84	1132	94.93	1160	100.06	1187	105.20
23050	5000	928	63.82	961	68.87	994	73.99	1025	79.11	1055	84.23	1084	89.35	1112	94.46	1139	99.58	1166	104.79	1193	110.12
23972	5200	938	67.45	971	72.70	1002	77.94	1033	83.27	1063	88.58	1092	93.90	1120	99.21	1147	104.52	1174	109.82	1199	115.14
24894	5400	947	71.19	980	76.65	1012	82.10	1042	87.54	1072	93.06	1101	98.57	1129	104.08	1156	109.58	1182	115.08	1208	120.58
25816	5600	957	75.06	990	80.73	1021	86.38	1052	92.02	1081	97.65	1110	103.36	1137	109.07	1164	114.77	1191	120.46	1216	126.16
26738	5800	967	79.05	1000	84.93	1031	90.79	1061	96.63	1090	102.46	1118	108.28	1146	114.19	1173	120.09	1199	125.98	1225	131.87
27660	6000	979	83.19	1009	89.27	1041	95.34	1071	101.39	1100	107.42	1128	113.43	1155	119.44	1182	125.53	1208	131.63	1233	137.71
28582	6200	990	87.47	1021	93.74	1050	100.02	1080	106.27	1109	112.51	1137	118.73	1164	124.93	1191	131.12	1217	137.41	1242	143.69
29504	6400	1002	91.90	1032	98.37	1061	104.84	1090	111.30	1119	117.75	1147	124.17	1174	130.58	1200	136.97	1226	143.34	1251	149.81
30426	6600	1014	96.49	1044	103.16	1073	109.81	1100	116.47	1129	123.12	1157	129.76	1183	136.37	1210	142.96	1235	149.54	1260	156.10
31348	6800	1026	101.24	1056	108.10	1084	114.95	1112	121.80	1138	128.65	1166	135.49	1193	142.31	1219	149.11	1244	155.89	1269	162.65
32270	7000	1038	106.14	1068	113.21	1096	120.26	1123	127.30	1150	134.34	1176	141.38	1203	148.40	1229	155.41	1254	162.39	1279	169.35
33192	7200	1050	111.21	1080	118.48	1108	125.73	1135	132.97	1161	140.20	1187	147.42	1212	154.65	1238	161.86	1264	169.05	1288	176.22
34114	7400	1063	116.75	1092	123.92	1120	131.37	1147	138.81	1173	146.23	1198	153.65	1223	161.06	1248	168.48	1273	175.87	1298	183.25

VOL CFM	OUT VEL	20" SP		22" SP		24" SP		26" SP		28" SP		30" SP		32" SP		34" SP		36" SP		38" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17518	3800	1184	86.48	1236	95.27	1286	104.14														
18440	4000	1189	90.83	1241	99.98	1291	109.19	1338	118.48												
19362	4200	1195	95.51	1247	104.75	1296	114.32	1344	123.96	1389	133.66	1433	143.42								
20284	4400	1201	100.37	1252	109.89	1301	119.53	1349	129.52	1394	139.57	1438	149.68	1480	159.84						
21206	4600	1207	105.31	1258	115.22	1307	125.15	1354	135.16	1399	145.56	1443	156.02	1486	166.53	1527	177.09	1566	187.71		
22128	4800	1213	110.34	1264	120.63	1313	130.94	1360	141.27	1405	151.63	1448	162.44	1491	173.30	1532	184.21	1571	195.17	1610	
23050	5000	1220	115.46	1271	126.14	1319	136.83	1366	147.54	1411	158.27	1454	169.01	1496	180.16	1537	191.42	1576	202.72	1615	
23972	5200	1226	120.67	1277	131.74	1325	142.82	1372	153.91	1417	165.01	1460	176.13	1501	187.26	1542	198.71	1581	210.36	1620	
24894	5400	1233	126.07	1283	137.44	1331	148.90	1378	160.38	1423	171.86	1466	183.35	1507	194.86	1547	206.38	1587	218.09	1625	
25816	5600	1241	131.84	1289	143.23	1337	155.09	1384	166.95	1429	178.81	1472	190.68	1513	202.56	1553	214.45	1592	226.35	1630	
26738	5800	1250	137.75	1297	149.50	1344	161.37	1390	173.62	1435	185.87	1478	198.12	1519	210.38	1559	222.64	1598	234.90	1636	
27660	6000	1258	143.79	1306	155.93	1351	168.05	1396	180.40	1441	193.03	1484	205.67	1525	218.30	1565	230.93	1604	243.57	1642	
28582	6200	1267	149.96	1314	162.49	1360	175.00	1403	187.50	1447	200.30	1490	213.32	1531	226.33	1571	239.35	1610	252.36	1648	
29504	6400	1275	156.28	1323	169.20	1368	182.10	1412	194.97	1454	207.83	1496	221.09	1537	234.48	1577	247.87	1616	261.26	1654	

Rim Type Material Handling Wheel

SIZE 05MR

MAXIMUM OPERATING SPEEDS

SIZE 05MR	-20° to 150°F -29° to 66°C
STD	6548
I SERIES	6850
H SERIES	NA

Wheel Diameter	8.63 inches	219 mm
Wheel Circumference	2.26 feet	.6889 m
Inlet Diameter/Area	5 inches dia./136 sq. ft.	127 mm/.0126 m ²
Outlet Size/Area	4.71 x 4.31 inches/.130 sq. ft.	120 mm x 109 mm .0121 m ²
Tip Speed	2.26 x RPM ft./minute	.6889 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
152	1200	1366	0.03	1736	0.05	2313	0.10														
178	1400	1451	0.04	1810	0.06	•2361	•0.12	2817	0.18												
203	1600	1546	0.05	1891	0.08	2423	0.14	2861	0.21	3249	0.28										
229	1800	1650	0.06	1975	0.09	2488	0.16	•2917	•0.23	3292	0.31	3634	0.39								
254	2000	1756	0.07	2060	0.11	2567	0.18	2980	0.26	•3344	•0.34	3677	0.43	3985	0.52						
279	2200	1862	0.09	2154	0.13	2648	0.21	3044	0.29	3405	0.38	•3726	•0.47	4029	0.57	4312	0.67	4576	0.77		
305	2400	1968	0.11	2256	0.15	2730	0.24	3123	0.33	3468	0.42	3787	0.51	•4077	•0.61	4355	0.72	4619	0.83	4866	0.94
330	2600	2077	0.13	2361	0.18	2815	0.27	3203	0.36	3537	0.46	3850	0.56	4139	0.67	•4405	•0.77	4662	0.89	4909	1.01
356	2800	2187	0.15	2468	0.20	2900	0.30	3285	0.41	3616	0.51	3911	0.61	4200	0.72	4466	0.84	•4714	•0.95	4953	1.07
381	3000	2301	0.18	2574	0.24	2988	0.34	3368	0.45	3697	0.56	3990	0.67	4263	0.78	4528	0.90	4775	1.02	•5007	•1.15
406	3200	2418	0.21	2679	0.27	3090	0.38	3452	0.50	3778	0.62	4069	0.73	4335	0.85	4590	0.97	4837	1.10	5068	1.23
432	3400	2536	0.24	2786	0.31	3193	0.43	3538	0.55	3861	0.67	4150	0.80	4414	0.92	4659	1.04	4899	1.18	5130	1.31
457	3600	2655	0.28	2894	0.35	3297	0.48	3625	0.60	3945	0.73	4232	0.87	4494	1.00	4737	1.13	4965	1.26	5193	1.40
483	3800	2776	0.32	3004	0.39	3403	0.53	3722	0.66	4030	0.80	4314	0.94	4575	1.08	4817	1.22	5043	1.35	5257	1.49
508	4000	2897	0.37	3114	0.44	3510	0.59	3824	0.73	4116	0.87	4398	1.02	4657	1.16	4897	1.31	5122	1.45	5335	1.60
533	4200	3019	0.42	3228	0.50	3617	0.65	3927	0.80	4201	0.94	4483	1.10	4740	1.25	4979	1.40	5203	1.56	5414	1.71
559	4400	3142	0.48	3345	0.56	3721	0.72	4032	0.87	4302	1.02	4568	1.18	4823	1.34	5061	1.50	5284	1.66	5494	1.82
584	4600	3265	0.54	3462	0.62	3827	0.79	4137	0.95	4404	1.11	4655	1.27	4908	1.44	5144	1.61	5365	1.78	5575	1.94
610	4800	3390	0.60	3581	0.69	3934	0.86	4244	1.04	4507	1.20	4747	1.37	4994	1.54	5228	1.72	5448	1.89	5656	2.07
635	5000	3514	0.67	3700	0.76	4042	0.95	4353	1.13	4611	1.30	4849	1.47	5080	1.65	5313	1.83	5531	2.01	5738	2.20
660	5200	3639	0.75	3820	0.84	4151	1.03	4457	1.22	4716	1.41	4951	1.58	5169	1.76	5398	1.95	5616	2.14	5821	2.33
686	5400	3765	0.83	3940	0.93	4260	1.12	4561	1.32	4822	1.52	5054	1.70	5270	1.89	5485	2.08	5701	2.27	5905	2.47
711	5600	3891	0.92	4062	1.02	4371	1.22	4667	1.43	4930	1.63	5158	1.82	5372	2.02	5573	2.21	5786	2.41	5990	2.62

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
356	2800	5186	1.20	5408	1.33	5621	1.46	5824	1.59												
381	3000	•5227	•1.27	5451	1.41	5663	1.55	5867	1.68	6063	1.83	6251	1.97								
406	3200	5288	1.36	•5497	•1.49	5706	1.63	5910	1.78	6105	1.93	6294	2.07	6476	2.22	6653	2.38				
432	3400	5349	1.45	5558	1.59	•5757	•1.73	5953	1.88	6148	2.03	6336	2.18	6518	2.34	6695	2.50				
457	3600	5411	1.54	5619	1.69	5818	1.84	•6009	•1.98	•6192	•2.13	6379	2.29	6561	2.45	6737	2.62				
483	3800	5473	1.64	5681	1.79	5879	1.95	6069	2.10	6253	2.26	•6430	•2.41	•6604	•2.57	6780	2.74				
508	4000	5537	1.74	5743	1.90	5941	2.06	6131	2.22	6314	2.38	6490	2.55	6661	2.71	•6827	•2.87				
533	4200	5615	1.86	5807	2.01	6003	2.18	6193	2.34	6375	2.51	6551	2.68	6722	2.85						
559	4400	5694	1.98	5885	2.14	6068	2.30	6255	2.47	6437	2.65	6613	2.82	6783	3.00						
584	4600	5774	2.11	5964	2.28	6146	2.44	6322	2.61	6499	2.79	6675	2.97	6845	3.15						
610	4800	5854	2.24	6044	2.41	6225	2.59	6400	2.76	6568	2.94	6737	3.12								
635	5000	5936	2.38	6124	2.56	6305	2.74	6478	2.92	6646	3.10	6808	3.28								
660	5200	6018	2.52	6205	2.71	6385	2.89	6558	3.08	6725	3.27										
686	5400	6100	2.67	6287	2.86	6466	3.06	6638	3.25	6804	3.44										
711	5600	6184	2.82	6369	3.02	6547	3.23	6719	3.43												
737	5800	6268	2.98	6452	3.19	6629	3.40	6800	3.61												
762	6000	6352	3.14	6536	3.36	6712	3.58														
787	6200	6438	3.31	6620	3.54	6796	3.76														

•Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate ■ H - High Pressure ■

The U.S. FAN class range is in the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7. For minimum motor size required see "Fan Starting Requirements," page 7.

Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).

Refer to factors on page 9 to convert numbers above to the desired metric units.

Backplate Material Handling Wheel

SIZE 05MB

MAXIMUM OPERATING SPEEDS

Wheel Diameter	8.63 inches	219 mm
Wheel Circumference	2.26 feet	.6889 m
Inlet Diameter/Area	5 inches dia./ .136 sq. ft.	127 mm/.0126 m ²
Outlet Size/Area	4.71 x 4.31 inches/ .130 sq. ft.	120 mm x 109 mm/ .0121 m ²
Tip Speed	2.26 x RPM ft./minute	.6889 x RPM m/minute

SIZE 05MB	-20° to 150°F -29° to 66°C
STD	6548
I SERIES	6850
H SERIES	NA

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
127	1000	●1286	●0.02	1708	0.04	2325	0.09														
152	1200	1344	0.03	●1761	●0.05	2368	0.10	2841	0.16												
178	1400	1405	0.03	1815	0.06	2412	0.12	2884	0.18	3283	0.25										
203	1600	1478	0.04	1872	0.07	●2463	●0.13	2928	0.20	3326	0.28	3677	0.36	3995	0.44						
229	1800	1555	0.05	1930	0.08	2517	0.15	2974	0.23	3369	0.31	3720	0.39	4037	0.48	4329	0.58				
254	2000	1634	0.06	1993	0.10	2571	0.17	●3026	●0.25	3413	0.34	3763	0.43	4080	0.52	4371	0.62	4643	0.72	4898	0.83
279	2200	1717	0.08	2067	0.11	2628	0.19	3080	0.28	3464	0.37	3807	0.46	4123	0.56	4414	0.67	4685	0.77	4940	0.88
305	2400	1801	0.09	2142	0.13	2685	0.21	3134	0.30	●3518	●0.40	3856	0.50	4166	0.61	4457	0.72	4728	0.83	4982	0.94
330	2600	1887	0.11	2219	0.15	2744	0.24	3190	0.33	3571	0.44	●3909	●0.54	4216	0.65	4500	0.77	4771	0.89	5025	1.01
356	2800	1979	0.13	2299	0.17	2807	0.27	3247	0.37	3626	0.47	3963	0.58	4268	0.70	4550	0.82	4814	0.94	5068	1.07
381	3000	2073	0.15	2381	0.20	2880	0.30	3305	0.41	3681	0.51	4016	0.63	●4321	●0.75	4602	0.88	4864	1.00	5111	1.14
406	3200	2167	0.18	2465	0.23	2955	0.34	3364	0.44	3739	0.56	4071	0.67	4375	0.80	●4655	●0.93	4916	1.07	5162	1.20
432	3400	2263	0.20	2549	0.26	3030	0.37	3426	0.49	3796	0.61	4127	0.73	4429	0.86	4708	0.99	●4969	●1.13	5214	1.28
457	3600	2360	0.23	2635	0.29	3107	0.41	3499	0.53	3855	0.66	4185	0.79	4484	0.92	4762	1.06	5022	1.20	●5267	●1.35
483	3800	2458	0.27	2725	0.33	3185	0.46	3573	0.58	3914	0.71	4242	0.85	4541	0.98	4817	1.12	5076	1.27	5320	1.43
508	4000	2557	0.31	2817	0.37	3266	0.50	3647	0.64	3981	0.77	4301	0.91	4598	1.05	4873	1.20	5130	1.35	5374	1.50
533	4200	2658	0.35	2910	0.42	3348	0.55	3723	0.69	4054	0.83	4360	0.98	4656	1.13	4930	1.28	5186	1.43	5428	1.59
559	4400	2760	0.39	3004	0.46	3431	0.61	3800	0.76	4128	0.90	4422	1.05	4715	1.20	4988	1.36	5243	1.52	5483	1.68
584	4600	2863	0.44	3100	0.52	3515	0.67	3877	0.82	4203	0.97	4495	1.13	4773	1.28	5046	1.45	5300	1.61	5540	1.78
610	4800	2966	0.49	3196	0.57	3600	0.73	3958	0.89	4278	1.05	4569	1.21	4835	1.37	5104	1.54	5358	1.71	5597	1.88
635	5000	3070	0.55	3292	0.63	3685	0.79	4039	0.96	4354	1.13	4643	1.30	4908	1.46	5163	1.63	5416	1.81	5654	1.99
660	5200	3175	0.61	3390	0.70	3771	0.86	4121	1.04	4431	1.21	4718	1.39	4981	1.56	5226	1.73	5474	1.91	5712	2.10
686	5400	3280	0.68	3488	0.77	3863	0.94	4204	1.12	4510	1.30	4793	1.48	5055	1.66	5298	1.84	5533	2.02	5770	2.21
711	5600	3385	0.75	3587	0.84	3955	1.02	4288	1.21	4591	1.40	4870	1.58	5129	1.77	5371	1.95	5599	2.14	5829	2.33

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
305	2400	5223	1.06	5451	1.18	5670	1.31	5880	1.43												
330	2600	5265	1.13	5493	1.26	5712	1.38	5921	1.51	6123	1.65	6318	1.78	6506	1.92						
356	2800	5308	1.20	5536	1.33	5754	1.46	5963	1.60	6165	1.74	6359	1.88	6547	2.02	6729	2.17				
381	3000	5351	1.27	5579	1.41	5796	1.55	6005	1.69	6206	1.83	6400	1.98	6588	2.13	6770	2.28				
406	3200	5394	1.34	5622	1.49	5839	1.63	6048	1.78	6249	1.93	6442	2.08	6630	2.23	●6811	●2.39				
432	3400	5446	1.42	5667	1.57	5882	1.72	6091	1.87	6291	2.02	6485	2.18	6672	2.34						
457	3600	5499	1.50	5719	1.65	5930	1.81	6134	1.96	6334	2.12	6527	2.29	6714	2.45						
483	3800	●5551	●1.58	5771	1.74	5982	1.90	6184	2.06	6378	2.23	6570	2.39	6757	2.56						
508	4000	5604	1.67	●5824	●1.83	6034	2.00	6236	2.16	6430	2.33	6617	2.51	6800	2.68						
533	4200	5658	1.75	5877	1.92	●6087	●2.10	6288	2.27	6482	2.44	6668	2.62	●6849	●2.80						
559	4400	5712	1.84	5931	2.02	6140	2.20	●6341	●2.38	●6534	●2.56	6720	2.74								
584	4600	5767	1.94	5985	2.12	6193	2.30	6394	2.49	6587	2.67	●6773	●2.86								
610	4800	5823	2.05	6039	2.22	6247	2.41	6447	2.60	6640	2.79	6825	2.99								
635	5000	5880	2.17	6095	2.34	6301	2.52	6501	2.72	6693	2.92										
660	5200	5937	2.28	6152	2.47	6357	2.65	6555	2.84	6747	3.04										
686	5400	5995	2.41	6209	2.60	6414	2.79	6611	2.98	6801	3.17										
711	5600	6053	2.53	6266	2.73	6471	2.93	6667	3.13												
737	5800	6111	2.66	6324	2.87	6528	3.07	6724	3.28												
762	6000	6170	2.79	6382	3.01	6586	3.22	6781	3.43												
787	6200	6232	2.93	6441	3.15	6644	3.37	6839	3.59												
813	6400	6304	3.09		3.30	6500			3.53												
838	6600	6377	3.25	6568	3.46	6761	3.69														
864	6800	6450	3.41	6640	3.64	6823	3.86														

● Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate ■ H - High Pressure ■

The U.S. FAN class range is in the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.

For minimum motor size required see "Fan Starting Requirements," page 7.

Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).

Refer to factors on page 9 to convert numbers above to the desired metric units.

MAXIMUM OPERATING SPEEDS

SIZE 07MB	-20° to 150°F -29° to 66°C
STD	4820
I SERIES	5202
H SERIES	NA

Wheel Diameter	12.25 inches	311 mm
Wheel Circumference	3.21 feet	.9784 m
Inlet Diameter/Area	7 inches dia./ .253 sq. ft.	178 mm/.0235 m ²
Outlet Size/Area	6.88 x 6.28 inches/ .27 sq. ft.	175 mm x 160 mm/ .0251 m ²
Tip Speed	3.21 x RPM ft./minute	.9784 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
270	1000	•851	•0.04	•1134	•0.07	1552	0.14	1877	0.22												
324	1200	892	0.05	1165	0.08	1575	0.16	1897	0.25	2171	0.35										
378	1400	937	0.06	1200	0.10	•1601	•0.19	1920	0.29	2191	0.39	2432	0.50	2651	0.62						
432	1600	987	0.08	1239	0.12	1632	0.22	•1943	•0.33	2214	0.44	2453	0.56	2669	0.68	2870	0.82				
486	1800	1039	0.10	1284	0.15	1664	0.25	1973	0.37	2238	0.49	2476	0.62	2691	0.75	2889	0.89	3075	1.03	3251	1.18
540	2000	1096	0.12	1330	0.17	1700	0.29	2004	0.41	•2265	•0.54	2499	0.68	2714	0.82	2912	0.97	3096	1.12	3269	1.27
594	2200	1155	0.15	1379	0.20	1737	0.33	2036	0.46	2296	0.60	•2526	•0.75	2738	0.90	2935	1.05	3119	1.21	3292	1.37
648	2400	1215	0.18	1430	0.24	1782	0.37	2072	0.52	2327	0.66	2557	0.82	•2764	•0.98	2959	1.14	3142	1.31	3315	1.48
702	2600	1276	0.21	1485	0.28	1827	0.43	2109	0.57	2361	0.73	2588	0.90	2795	1.06	•2986	•1.23	•3166	•1.41	3338	1.59
756	2800	1338	0.25	1542	0.33	1873	0.48	2150	0.64	2397	0.80	2619	0.98	2826	1.15	3016	1.33	3194	1.52	•3362	•1.70
810	3000	1402	0.30	1600	0.38	1920	0.54	2195	0.71	2434	0.88	2655	1.06	2857	1.25	3047	1.44	3224	1.63	3390	1.83
864	3200	1468	0.35	1659	0.44	1971	0.61	2240	0.79	2474	0.97	2691	1.15	2891	1.35	3079	1.55	3255	1.75	3421	1.96
918	3400	1534	0.41	1719	0.50	2023	0.68	2286	0.87	2519	1.06	2728	1.25	2927	1.46	3111	1.66	3286	1.88	3452	2.09
972	3600	1602	0.47	1780	0.57	2077	0.76	2332	0.96	2564	1.16	2770	1.36	2964	1.57	3147	1.79	3319	2.01	3483	2.23
1026	3800	1669	0.54	1842	0.65	2133	0.85	2382	1.05	2609	1.27	2814	1.48	3001	1.69	3184	1.92	3354	2.15	3515	2.38
1080	4000	1738	0.62	1904	0.73	2191	0.95	2434	1.16	2655	1.38	2859	1.60	3045	1.83	3220	2.05	3391	2.30	3551	2.54
1134	4200	1807	0.70	1969	0.82	2249	1.05	2486	1.27	2702	1.50	2904	1.74	3089	1.97	3261	2.20	3427	2.45	3587	2.70
1188	4400	1876	0.80	2034	0.92	2308	1.16	2539	1.39	2752	1.63	2950	1.87	3134	2.12	3305	2.36	3464	2.61	3623	2.87
1242	4600	1946	0.90	2100	1.03	2367	1.28	2596	1.52	2804	1.77	2997	2.02	3180	2.28	3349	2.54	3508	2.79	3660	3.04
1296	4800	2017	1.01	2166	1.15	2427	1.41	2653	1.66	2856	1.92	3045	2.17	3225	2.44	3394	2.71	3553	2.98	3702	3.24
1350	5000	2088	1.13	2233	1.27	2488	1.55	2710	1.81	2908	2.07	3096	2.34	3272	2.62	3440	2.90	3597	3.18	3746	3.45
1404	5200	2160	1.25	2301	1.41	2549	1.69	2769	1.97	2964	2.24	3148	2.52	3319	2.80	3486	3.09	3642	3.38	3790	3.67
1458	5400	2232	1.39	2369	1.55	2611	1.85	2828	2.14	3020	2.43	3200	2.71	3370	3.00	3532	3.29	3688	3.60	3835	3.90
1512	5600	2304	1.54	2437	1.70	2673	2.01	2887	2.32	3078	2.62	3252	2.91	3421	3.21	3578	3.50	3734	3.82	3880	4.13

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
540	2000	3435	1.43	3593	1.60	3743	1.77														
594	2200	3455	1.54	3610	1.71	3761	1.89	3905	2.07	4044	2.25										
648	2400	3478	1.66	3633	1.83	3781	2.02	3923	2.20	4062	2.39	4195	2.59	4324	2.79	4449	2.99				
702	2600	3501	1.78	3656	1.96	3804	2.15	3945	2.35	4082	2.54	4213	2.74	4342	2.95	4467	3.16	4588	3.37	4706	3.59
756	2800	3524	1.90	3679	2.10	3827	2.30	3968	2.50	4104	2.70	4236	2.91	4363	3.12	4486	3.33	4606	3.55	4724	3.78
810	3000	•3548	•2.02	3702	2.23	3850	2.44	3991	2.65	4127	2.87	4259	3.09	4385	3.31	4508	3.53	4627	3.75	4743	3.98
864	3200	3578	2.16	•3727	•2.37	3873	2.59	4014	2.81	4150	3.04	4281	3.26	4408	3.49	4531	3.73	4650	3.96	4766	4.19
918	3400	3609	2.31	3758	2.53	•3900	•2.75	•4038	•2.97	4174	3.21	4304	3.45	4431	3.69	4554	3.93	4673	4.17	4788	4.41
972	3600	3640	2.46	3789	2.69	3931	2.92	4067	3.16	•4198	•3.39	4328	3.63	4454	3.88	4577	4.13	4696	4.38	4811	4.64
1026	3800	3671	2.62	3820	2.86	3962	3.10	4098	3.34	4229	3.59	•4355	•3.83	•4477	•4.08	4600	4.34	4718	4.60	4834	4.87
1080	4000	3702	2.78	3851	3.03	3992	3.28	4128	3.54	4259	3.79	4385	4.05	4507	4.31	•4626	•4.56	•4742	•4.83	4857	5.10
1134	4200	3738	2.95	3882	3.21	4024	3.47	4159	3.74	4290	4.00	4416	4.27	4538	4.54	4656	4.81	4770	5.08	•4882	•5.35
1188	4400	3774	3.14	3918	3.40	4055	3.67	4190	3.94	4321	4.22	4447	4.50	4568	4.77	4686	5.05	4801	5.33	4912	5.61
1242	4600	3811	3.32	3954	3.60	4091	3.88	4223	4.15	4352	4.44	4478	4.73	4599	5.02	4717	5.31	4831	5.60	4942	5.89
1296	4800	3847	3.51	3990	3.80	4127	4.09	4258	4.38	4385	4.67	4509	4.96	4630	5.27	4748	5.57	4862	5.87	4973	6.17
1350	5000	3887	3.72	4027	4.01	4163	4.31	4294	4.62	4420	4.92	4542	5.21	4661	5.52	4779	5.83	4893	6.14	5003	6.46
1404	5200	3931	3.96	4065	4.24	4200	4.54	4330	4.86	4456	5.17	4578	5.48	4695	5.79	4810	6.10	4924	6.43	5034	6.75
1458	5400	3975	4.20	4109	4.49	4237	4.78	4367	5.10	4492	5.43	4614	5.75	4731	6.07	4845	6.39	4955	6.72	5065	7.05
1512	5600	4020	4.44	4153	4.75	4280	5.05	4403	5.36	4529	5.69	4650	6.03	4767	6.36	4880	6.70	4991	7.03	5098	7.36
1566	5800	4065	4.70	4197	5.02	4325	5.34	4447	5.65	4565	5.97	4686	6.31	4803	6.66	4916	7.00	5026	7.35	5133	7.69
1620	6000	4110	4.97	4242	5.30	4369	5.63	4491	5.95	4608	6.28	4722	6.60	4839	6.96	4952	7.32	5062	7.68	5169	8.03
1674	6200	4156	5.24	4287	5.59	4414	5.93	4535	6.27	4652	6.60	4765	6.94	4876	7.27	4988	7.64	5098	8.01		
1728	6400	4202	5.52	4333	5.88	4458	6.24	4579	6.59	4696	6.94	4809	7.28	4918	7.63	5025	7.97	5134	8.36		
1782	6600	4248	5.82	4379	6.19	4504	6.56	4624	6.92	4741	7.28	4853	7.64	4962	8.00	5068	8.35	5171	8.71		

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard ☐ I - Intermediate ☐ H - High Pressure ☐

The U.S. FAN class range is in the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 9. For minimum motor size required see "Fan Starting Requirements," page 9.

Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).

Refer to factors on page 9 to convert numbers above to the desired metric units.

Backplate Material Handling Wheel

SIZE 09MB

MAXIMUM OPERATING SPEEDS

Wheel Diameter	15.50 inches	394 mm
Wheel Circumference	4.06 feet	1.237 m
Inlet Diameter/Area	9 inches dia./ .360 sq. ft.	229 mm/.0334 m ²
Outlet Size/Area	8.56 x 7.88 inches/ .432 sq. ft.	217 mm x 200 mm/ .0401 m ²
Tip Speed	4.06 x RPM ft./minute	1.237 x RPM m/minute

SIZE 09MB	-20° to 150°F -29° to 66°C
STD	3700
I SERIES	4111
H SERIES	NA

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
432	1000	•673	•0.06	•905	•0.11	1249	0.23	1516	0.37	1741	0.52	1939	0.67								
518	1200	703	0.07	925	0.13	1261	0.27	1528	0.42	1753	0.58	1951	0.76								
605	1400	737	0.09	949	0.16	•1278	•0.31	1540	0.48	1764	0.65	1962	0.84					2459	1.45	2602	1.66
691	1600	774	0.12	978	0.19	1297	0.36	1555	0.54	1776	0.73	1974	0.93					2470	1.58	2614	1.81
778	1800	818	0.15	1011	0.23	1318	0.40	•1572	•0.60	1791	0.80	1986	1.02	2164	1.25	2329	1.48	2482	1.72	2625	1.97
864	2000	870	0.19	1045	0.27	1345	0.46	1592	0.67	1808	0.89	2001	1.12	2176	1.36	2340	1.61	2493	1.86	2636	2.12
950	2200	923	0.23	1080	0.32	1373	0.52	1613	0.74	•1826	•0.97	2017	1.22	2192	1.47	2352	1.73	2505	2.01	2648	2.28
1037	2400	977	0.28	1124	0.38	1405	0.60	1640	0.83	1847	1.07	•2034	•1.32	2208	1.59	2368	1.87	2517	2.15	2659	2.45
1123	2600	1032	0.34	1170	0.44	1438	0.67	1666	0.92	1870	1.17	2055	1.44	•2225	•1.72	2385	2.01	2534	2.31	2673	2.62
1210	2800	1088	0.41	1222	0.52	1472	0.76	1697	1.02	1896	1.29	2076	1.57	2245	1.86	•2401	•2.16	2550	2.47	2690	2.80
1296	3000	1144	0.48	1275	0.60	1507	0.85	1730	1.13	1923	1.41	2102	1.70	2266	2.01	2422	2.32	•2567	•2.64	2706	2.98
1382	3200	1205	0.57	1328	0.70	1546	0.96	1763	1.24	1954	1.54	2128	1.85	2290	2.17	2443	2.49	2587	2.83	•2723	•3.17
1469	3400	1266	0.67	1382	0.80	1590	1.07	1797	1.37	1986	1.69	2155	2.00	2316	2.34	2465	2.67	2608	3.02	2744	3.38
1555	3600	1328	0.78	1437	0.92	1634	1.20	1832	1.51	2019	1.84	2187	2.17	2343	2.52	2491	2.87	2630	3.22	2764	3.60
1642	3800	1390	0.91	1493	1.04	1685	1.34	1867	1.66	2053	1.99	2219	2.35	2371	2.71	2517	3.08	2656	3.45	2786	3.82
1728	4000	1452	1.04	1549	1.18	1737	1.50	1910	1.83	2087	2.17	2252	2.54	2403	2.91	2544	3.29	2682	3.68	2811	4.07
1814	4200	1515	1.19	1606	1.33	1790	1.67	1954	2.00	2122	2.36	2286	2.73	2436	3.13	2575	3.52	2708	3.92	2838	4.33
1901	4400	1579	1.36	1665	1.50	1843	1.85	1998	2.19	2157	2.56	2320	2.95	2469	3.35	2608	3.77	2737	4.17	2864	4.60
1987	4600	1642	1.54	1726	1.69	1897	2.05	2049	2.41	2200	2.79	2354	3.18	2502	3.59	2640	4.02	2769	4.45	2891	4.88
2074	4800	1706	1.73	1787	1.89	1951	2.26	2101	2.64	2244	3.02	2389	3.43	2536	3.84	2673	4.29	2802	4.74	2923	5.18
2160	5000	1770	1.94	1848	2.11	2006	2.48	2153	2.88	2288	3.27	2427	3.69	2571	4.12	2707	4.56	2835	5.03	2955	5.50
2246	5200	1835	2.17	1910	2.34	2061	2.73	2206	3.14	2336	3.54	2471	3.97	2605	4.41	2740	4.86	2868	5.34	2988	5.82
2333	5400	1899	2.41	1973	2.60	2117	2.98	2259	3.41	2387	3.83	2515	4.27	2641	4.71	2775	5.19	2901	5.66	3021	6.16
2419	5600	1964	2.68	2035	2.87	2173	3.26	2312	3.71	2439	4.14	2559	4.58	2684	5.05	2809	5.52	2935	6.01	3054	6.51

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
691	1600	2749	2.05	2878	2.29	3002	2.54	3120	2.80			3354	3.56	3459	3.85						
778	1800	2761	2.22	2889	2.48	3013	2.74	3131	3.01	3244	3.28			3470	4.11						
864	2000	2772	2.39	2901	2.66	3024	2.94	3142	3.23	3255	3.52	3364	3.81	3470	4.11	3573	4.41	3672	4.72	3769	5.03
950	2200	2783	2.57	2912	2.86	3035	3.15	3153	3.45	3266	3.75	3375	4.06	3481	4.37	3583	4.69	3683	5.01	3779	5.34
1037	2400	2795	2.75	2923	3.05	3046	3.36	3164	3.67	3277	3.99	3387	4.32	3492	4.64	3594	4.98	3694	5.31	3790	5.66
1123	2600	2806	2.93	2935	3.25	3058	3.57	3175	3.91	3289	4.24	3398	4.58	3503	4.92	3605	5.27	3705	5.62	3801	5.97
1210	2800	2822	3.12	2947	3.45	3069	3.79	3187	4.14	3300	4.49	3409	4.84	3514	5.20	3616	5.57	3716	5.93	3812	6.30
1296	3000	2838	3.32	2964	3.67	3083	4.02	3198	4.37	3311	4.74	3420	5.11	3526	5.49	3628	5.87	3727	6.25	3823	6.64
1382	3200	2855	3.53	2980	3.89	3100	4.26	3214	4.63	3325	5.00	3432	5.38	3537	5.78	3639	6.17	3738	6.57	3834	6.97
1469	3400	•2872	•3.74	2996	4.11	3116	4.50	3231	4.89	3341	5.28	3447	5.67	3550	6.07	3650	6.48	3749	6.89	3845	7.31
1555	3600	2892	3.97	•3014	•4.35	•3132	•4.74	3247	5.15	3357	5.56	3463	5.97	3566	6.38	3665	6.80	3762	7.22	3857	7.65
1642	3800	2913	4.21	3035	4.61	3151	5.01	•3263	•5.42	3373	5.84	3480	6.27	3582	6.70	3682	7.14	3778	7.58	3872	8.02
1728	4000	2934	4.46	3056	4.88	3172	5.29	3283	5.71	•3390	•6.13	3496	6.58	3598	7.03	3698	7.48	3794	7.93	3888	8.39
1814	4200	2960	4.74	3077	5.15	3193	5.59	3304	6.02	3410	6.46	•3514	•6.90	•3615	•7.35	3714	7.82	3810	8.29	3904	8.77
1901	4400	2986	5.03	3102	5.46	3214	5.89	3324	6.34	3431	6.79	3534	7.25	3634	7.71	•3730	•8.17	3827	8.66	3920	9.15
1987	4600	3012	5.32	3128	5.77	3239	6.22	3346	6.67	3452	7.14	3555	7.61	3654	8.09	3751	8.57	•3844	•9.05	•3936	•9.54
2074	4800	3039	5.63	3155	6.10	3265	6.56	3372	7.03	3474	7.50	3576	7.98	3675	8.48	3771	8.97	3865	9.47	3955	9.97
2160	5000	3070	5.96	3181	6.43	3292	6.92	3398	7.40	3500	7.89	3599	8.37	3696	8.87	3792	9.38	3885	9.90	3976	10.41
2246	5200	3102	6.31	3211	6.79	3318	7.28	3424	7.78	3526	8.29	3624	8.79	3719	9.29	3813	9.80	3906	10.34	3996	10.87
2333	5400	3135	6.67	3243	7.17	3347	7.66	3450	8.17	3552	8.70	3650	9.22	3745	9.74	3837	10.26	3927	10.78	4017	11.33
2419	5600	3168	7.04	3276	7.56	3379	8.07	3479	8.59	3578	9.12	3676	9.66	3771	10.20	3863	10.74	3952	11.28	4039	11.82
2506	5800	3201	7.42	3308	7.96	3412	8.49	3511	9.03	3607	9.56	3702	10.11	3797	10.67	3889	11.23	3978	11.79	4065	12.35
2592	6000	3234	7.81	3341	8.37	3444	8.93	3543	9.48	3639	10.03	3731	10.58	3823	11.15	3915	11.73	4004	12.31	4091	12.88
2678	6200	3268	8.24	3374	8.80	3477	9.38	3576	9.95	3671	10.52	3763	11.09	3852	11.66	3941	12.24	4030	12.84		

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate □ H - High Pressure □

The U.S. FAN class range is in the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.

For minimum motor size required see "Fan Starting Requirements," page 7.

Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).

Refer to factors on page 9 to convert numbers above to the desired metric units.

SIZE 11MB

MAXIMUM OPERATING SPEEDS

SIZE 11MB	-20° to 150°F -29° to 66°C
STD	3000
I SERIES	3332
H SERIES	NA

Wheel Diameter	19.13 inches	486 mm
Wheel Circumference	5.01 feet	1.527 m
Inlet Diameter/Area	11 inches dia./ .615 sq. ft.	279 mm/.0571 m ²
Outlet Size/Area	10.38 x 9.63 inches/ .657 sq. ft.	264 mm x 245 mm/ .0610 m ²
Tip Speed	5.01 x RPM ft./minute	1.527 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
657	1000	•535	•0.08	•721	•0.16	997	0.34														
788	1200	563	0.11	738	0.19	1007	0.39	1220	0.62												
920	1400	592	0.14	756	0.23	•1019	•0.44	1229	0.69	1409	0.96										
1051	1600	624	0.18	782	0.28	1035	0.51	1239	0.77	1418	1.06	1576	1.37	1720	1.69						
1183	1800	657	0.22	810	0.34	1053	0.58	•1254	•0.86	1428	1.16	1585	1.48	1727	1.83	1860	2.19	1983	2.56		
1314	2000	692	0.27	840	0.40	1070	0.65	1271	0.96	•1441	•1.27	1595	1.61	1737	1.97	1868	2.35	1990	2.74	2106	3.15
1445	2200	728	0.33	872	0.47	1097	0.75	1288	1.06	1458	1.40	•1608	•1.74	1748	2.12	1878	2.52	1999	2.92	2113	3.35
1577	2400	765	0.40	904	0.55	1124	0.86	1306	1.17	1475	1.53	1624	1.90	•1759	•2.28	1888	2.69	2009	3.12	2123	3.56
1708	2600	808	0.48	938	0.65	1152	0.98	1329	1.31	1492	1.68	1641	2.07	1776	2.47	•1900	•2.88	2019	3.31	2133	3.78
1840	2800	852	0.58	973	0.75	1183	1.11	1357	1.47	1509	1.82	1658	2.24	1793	2.67	1917	3.10	•2032	•3.54	2143	4.00
1971	3000	897	0.69	1009	0.86	1214	1.25	1385	1.64	1534	2.01	1675	2.42	1810	2.88	1933	3.34	2049	3.80	•2157	•4.26
2102	3200	942	0.81	1046	0.99	1247	1.41	1413	1.82	1561	2.22	1693	2.61	1827	3.09	1950	3.57	2065	4.06	2174	4.55
2234	3400	987	0.94	1083	1.13	1279	1.57	1443	2.01	1589	2.44	1720	2.86	1844	3.31	1968	3.82	2082	4.34	2190	4.85
2365	3600	1033	1.10	1126	1.29	1312	1.75	1475	2.22	1617	2.68	1748	3.13	1867	3.57	1985	4.07	2099	4.61	2207	5.16
2497	3800	1080	1.27	1169	1.47	1347	1.95	1507	2.44	1646	2.92	1775	3.41	1894	3.88	2003	4.34	2117	4.90	2224	5.47
2628	4000	1127	1.45	1213	1.67	1383	2.16	1539	2.68	1677	3.19	1803	3.70	1921	4.20	2030	4.69	2134	5.19	2241	5.79
2759	4200	1174	1.66	1258	1.89	1418	2.39	1571	2.93	1709	3.47	1832	4.01	1949	4.54	2058	5.06	2159	5.57	2259	6.12
2891	4400	1222	1.88	1303	2.13	1455	2.63	1604	3.19	1741	3.77	1863	4.33	1977	4.89	2085	5.44	2186	5.98	2281	6.52
3022	4600	1272	2.13	1348	2.38	1491	2.89	1639	3.49	1773	4.09	1894	4.68	2005	5.26	2113	5.84	2214	6.41	2308	6.97
3154	4800	1321	2.40	1394	2.66	1529	3.17	1674	3.80	1805	4.42	1926	5.04	2036	5.65	2141	6.25	2241	6.85	2336	7.45
3285	5000	1371	2.69	1440	2.96	1571	3.49	1710	4.13	1838	4.77	1958	5.42	2068	6.06	2170	6.69	2269	7.32	2363	7.94
3416	5200	1421	3.01	1486	3.28	1614	3.84	1746	4.48	1872	5.14	1990	5.82	2099	6.49	2201	7.15	2297	7.80	2391	8.45
3548	5400	1472	3.35	1532	3.62	1658	4.21	1782	4.85	1907	5.54	2023	6.24	2131	6.94	2232	7.63	2327	8.30	2419	8.98
3679	5600	1522	3.72	1579	3.99	1702	4.60	1819	5.23	1942	5.96	2055	6.67	2163	7.41	2263	8.13	2358	8.83	2447	9.53

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1445	2200	2223	3.78	2327	4.23	2426	4.69														
1577	2400	2231	4.01	2333	4.48	2433	4.95	2528	5.44	2619	5.94										
1708	2600	2241	4.25	2343	4.73	2440	5.23	2535	5.73	2626	6.25	2714	6.78	2799	7.31						
1840	2800	2251	4.49	2353	5.00	2450	5.51	2544	6.03	2634	6.56	2721	7.11	2806	7.66	2889	8.23	2969	8.80	3046	9.38
1971	3000	2261	4.74	2363	5.27	2460	5.80	2554	6.34	2643	6.90	2730	7.45	2814	8.02	2895	8.60	2975	9.19	3053	9.79
2102	3200	•2276	•5.05	•2373	•5.55	2470	6.10	2563	6.66	2653	7.23	2740	7.81	2823	8.40	2904	9.00	2983	9.60	3060	10.21
2234	3400	2292	5.37	2390	5.90	•2482	•6.43	2573	6.98	2663	7.58	2750	8.18	2833	8.79	2914	9.40	2993	10.02	3069	10.65
2365	3600	2309	5.71	2406	6.26	2499	6.81	•2588	•7.37	•2673	•7.93	2759	8.54	2843	9.17	2924	9.81	3002	10.46	3079	11.11
2497	3800	2326	6.05	2423	6.62	2515	7.20	2604	7.78	2690	8.37	•2772	•8.96	2853	9.57	2934	10.23	3012	10.89	3088	11.56
2628	4000	2343	6.39	2440	7.00	2532	7.60	2621	8.21	2706	8.82	2788	9.44	•2868	•10.05	•2945	•10.67	3022	11.33	3098	12.03
2759	4200	2360	6.75	2457	7.38	2549	8.01	2637	8.65	2722	9.28	2805	9.92	2884	10.56	2961	11.21	•3036	•11.85	•3108	•12.50
2891	4400	2377	7.11	2474	7.77	2566	8.43	2654	9.09	2739	9.75	2821	10.42	2900	11.09	2977	11.76	3052	12.43	3124	13.10
3022	4600	2398	7.53	2491	8.17	2583	8.85	2671	9.54	2756	10.23	2838	10.92	2917	11.62	2994	12.31	3068	13.01	3141	13.71
3154	4800	2425	8.03	2511	8.61	2600	9.29	2688	10.00	2773	10.72	2855	11.44	2934	12.16	3010	12.88	3084	13.60	3157	14.33
3285	5000	2453	8.55	2538	9.16	2619	9.76	2705	10.47	2790	11.22	2872	11.96	2950	12.71	3027	13.46	3101	14.21	3173	14.96
3416	5200	2480	9.09	2565	9.73	2646	10.36	2724	10.98	2807	11.72	2889	12.49	2967	13.27	3044	14.04	3118	14.82	3190	15.60
3548	5400	2508	9.65	2592	10.32	2673	10.98	2751	11.63	2826	12.27	2906	13.04	2985	13.84	3061	14.64	3135	15.44	3207	16.24
3679	5600	2536	10.23	2620	10.93	2701	11.61	2778	12.29	2853	12.97	2925	13.63	3002	14.42	3078	15.24	3152	16.07	3224	16.90
3811	5800	2564	10.83	2648	11.56	2728	12.27	2805	12.98	2880	13.68	2952	14.38	3022	15.07	3095	15.86	3169	16.72	3241	17.57
3942	6000	2593	11.46	2676	12.21	2756	12.95	2833	13.69	2907	14.42	2979	15.14	3049	15.86	3116	16.58	3186	17.37	3258	18.25
4073	6200	2623	12.11	2704	12.88	2784	13.65	2861	14.42	2935	15.18	3006	15.93	3076	16.68	3143	17.42	3208	18.16	3275	18.95
4205	6400	2654	12.79	2734	13.58	2812	14.38	2888	15.18	2962	15.96	3034	16.75	3103	17.52	3170	18.29	3235	19.05	3299	19.81
4336	6600	2686	13.49	2765	14.31	2841	15.13	2916	15.95	2990	16.77	3061	17.58	3130	18.38	3197	19.18	3262	19.97	3325	20.76
4468	6800	2717	14.21	2796	15.07	2872	15.92	2945	16.75	3018	17.60	3089	18.44	3158	19.27	3224	20.10	3289	20.92		

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate □ H - High Pressure ■

The U.S. FAN class range is in the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 9.

For minimum motor size required see "Fan Starting Requirements," page 9.

Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).

Refer to factors on page 9 to convert numbers above to the desired metric units.

Backplate Material Handling Wheel

SIZE 13MB

MAXIMUM OPERATING SPEEDS

Wheel Diameter	22.63 inches	575 mm
Wheel Circumference	5.92 feet	1.804 m
Inlet Diameter/Area	13 inches dia./ .869 sq. ft.	330 mm/.0807 m ²
Outlet Size/Area	12.19 x 11.38 inches/ .920 sq. ft.	310 mm x 289 mm/ .0855 m ²
Tip Speed	5.92 x RPM ft./minute	1.804 x RPM m/minute

SIZE 13MB	-20° to 150°F -29° to 66°C
STD	2540
I SERIES	2816
H SERIES	NA

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
920	1000	•453	•0.11	•610	•0.22	843	0.48														
1104	1200	476	0.15	624	0.27	851	0.55	1031	0.87												
1288	1400	501	0.19	639	0.32	•861	•0.62	1039	0.97	1191	1.35										
1472	1600	527	0.25	661	0.39	875	0.71	1048	1.07	1199	1.48	1332	1.91	1454	2.37						
1656	1800	555	0.31	685	0.47	890	0.81	•1060	•1.20	1207	1.62	1340	2.08	1460	2.56	1572	3.06	1677	3.59		
1840	2000	585	0.38	710	0.56	905	0.91	1074	1.34	•1218	•1.78	1349	2.25	1469	2.76	1579	3.29	1683	3.83	1780	4.40
2024	2200	616	0.46	737	0.66	927	1.05	1089	1.49	1232	1.96	•1359	•2.44	1477	2.96	1588	3.52	1690	4.09	1786	4.68
2208	2400	647	0.56	765	0.78	950	1.21	1104	1.64	1247	2.15	1373	2.67	•1487	•3.19	1596	3.76	1699	4.37	1795	4.98
2392	2600	683	0.67	793	0.90	974	1.37	1124	1.83	1261	2.35	1387	2.90	1501	3.46	•1606	•4.03	1707	4.64	1803	5.29
2576	2800	721	0.81	823	1.05	1000	1.56	1147	2.05	1276	2.55	1402	3.14	1515	3.74	1620	4.35	•1718	•4.96	1812	5.60
2760	3000	758	0.96	853	1.21	1027	1.76	1171	2.29	1297	2.81	1416	3.39	1530	4.03	1634	4.67	1732	5.32	•1824	•5.97
2944	3200	796	1.13	884	1.39	1054	1.97	1195	2.54	1320	3.11	1431	3.66	1544	4.33	1649	5.01	1746	5.69	1837	6.38
3128	3400	835	1.32	916	1.58	1082	2.20	1220	2.82	1343	3.42	1454	4.01	1559	4.63	1663	5.35	1760	6.07	1851	6.80
3312	3600	874	1.54	952	1.81	1109	2.45	1247	3.11	1367	3.75	1478	4.38	1578	5.00	1678	5.70	1775	6.46	1866	7.22
3496	3800	913	1.77	989	2.07	1139	2.73	1274	3.42	1392	4.10	1501	4.77	1601	5.43	1694	6.08	1789	6.86	1880	7.66
3680	4000	953	2.03	1026	2.34	1169	3.02	1301	3.75	1418	4.47	1525	5.18	1624	5.88	1716	6.57	1804	7.27	1895	8.11
3864	4200	993	2.32	1064	2.65	1199	3.34	1329	4.10	1445	4.87	1549	5.61	1648	6.35	1740	7.08	1825	7.80	1910	8.57
4048	4400	1033	2.64	1102	2.98	1230	3.68	1357	4.48	1472	5.28	1575	6.07	1672	6.85	1763	7.62	1848	8.38	1929	9.13
4232	4600	1075	2.98	1140	3.34	1261	4.05	1386	4.89	1499	5.72	1602	6.55	1696	7.36	1786	8.18	1871	8.98	1952	9.77
4416	4800	1118	3.36	1179	3.73	1293	4.44	1416	5.32	1526	6.19	1628	7.06	1722	7.91	1810	8.76	1895	9.60	1975	10.43
4600	5000	1160	3.78	1217	4.14	1329	4.89	1446	5.78	1554	6.68	1655	7.59	1748	8.49	1834	9.37	1918	10.25	1998	11.12
4784	5200	1202	4.22	1256	4.59	1365	5.38	1476	6.27	1583	7.20	1683	8.15	1775	9.09	1861	10.01	1942	10.92	2021	11.84
4968	5400	1245	4.70	1296	5.08	1402	5.90	1507	6.79	1612	7.76	1710	8.74	1802	9.72	1887	10.68	1967	11.63	2045	12.58
5152	5600	1287	5.21	1335	5.59	1439	6.45	1538	7.33	1642	8.35	1738	9.35	1829	10.38	1914	11.38	1993	12.37	2069	13.35

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2024	2200	1879	5.30	1967	5.92	2051	6.57														
2208	2400	1886	5.62	1973	6.27	2056	6.94	2137	7.62	2214	8.32										
2392	2600	1894	5.95	1980	6.63	2063	7.32	2143	8.02	2220	8.75	2294	9.49	2366	10.24						
2576	2800	1902	6.29	1989	7.00	2071	7.72	2150	8.45	2226	9.19	2300	9.95	2372	10.73	2442	11.52	2509	12.32	2575	13.13
2760	3000	1911	6.64	1997	7.38	2080	8.12	2159	8.88	2235	9.65	2308	10.44	2379	11.23	2447	12.04	2515	12.87	2581	13.71
2944	3200	•1924	•7.07	•2006	•7.77	2088	8.54	2167	9.33	2243	10.13	2316	10.94	2387	11.76	2455	12.59	2522	13.44	2586	14.29
3128	3400	1938	7.53	2020	8.26	•2099	•9.00	2175	9.77	2251	10.61	2324	11.45	2395	12.30	2463	13.16	2530	14.03	2594	14.92
3312	3600	1952	7.99	2034	8.76	2112	9.54	•2188	•10.32	•2260	•11.10	2333	11.96	2403	12.85	2472	13.74	2538	14.64	2603	15.55
3496	3800	1966	8.47	2048	9.28	2126	10.09	2201	10.90	2274	11.72	•2343	•12.54	2412	13.40	2480	14.32	2546	15.25	2611	16.19
3680	4000	1981	8.95	2062	9.80	2140	10.65	2215	11.50	2287	12.35	2357	13.21	•2424	•14.08	•2489	•14.94	2555	15.87	2619	16.84
3864	4200	1995	9.45	2077	10.33	2155	11.22	2229	12.11	2301	13.00	2371	13.90	2438	14.79	2503	15.69	•2566	•16.60	•2628	•17.51
4048	4400	2010	9.96	2091	10.88	2169	11.80	2244	12.73	2315	13.66	2385	14.59	2452	15.53	2517	16.46	2580	17.40	2641	18.34
4232	4600	2028	10.55	2106	11.44	2184	12.40	2258	13.36	2330	14.33	2399	15.30	2466	16.27	2531	17.24	2594	18.22	2655	19.20
4416	4800	2050	11.25	2123	12.06	2198	13.01	2273	14.01	2344	15.01	2413	16.02	2480	17.03	2545	18.04	2608	19.05	2669	20.06
4600	5000	2074	11.98	2146	12.83	2214	13.67	2287	14.67	2359	15.71	2428	16.75	2494	17.79	2559	18.84	2622	19.89	2683	20.95
4784	5200	2097	12.74	2169	13.63	2237	14.51	2303	15.38	2373	16.42	2442	17.50	2509	18.58	2573	19.66	2636	20.75	2697	21.84
4968	5400	2120	13.52	2192	14.45	2260	15.37	2326	16.29	2389	17.19	2457	18.26	2523	19.38	2588	20.50	2650	21.62	2711	22.74
5152	5600	2144	14.33	2215	15.31	2283	16.27	2349	17.22	2412	18.16	2473	19.10	2538	20.19	2602	21.35	2664	22.51	2725	23.67
5336	5800	2167	15.17	2238	16.19	2306	17.19	2372	18.18	2435	19.17	2496	20.14	2555	21.11	2616	22.22	2679	23.41	2740	24.61
5520	6000	2192	16.05	2262	17.10	2330	18.14	2395	19.18	2458	20.20	2519	21.21	2577	22.22	2634	23.22	2693	24.33	2754	25.56
5704	6200	2218	16.97	2286	18.04	2353	19.13	2418	20.20	2481	21.27	2542	22.32	2600	23.36	2657	24.40	2712	25.43	2768	26.54
5888	6400	2244	17.91	2312	19.03	2377	20.14	2442	21.26	2504	22.36	2565	23.46	2623	24.54	2680	25.62	2735	26.69	2789	27.75
6072	6600	2271	18.90	2338	20.05	2402	21.20	2466	22.35	2528	23.49	2588	24.63	2646	25.75	2703	26.87	2758	27.98	2811	29.08
6256	6800	2297	19.91	2364	21.11	2428	22.30	2490	23.47	2551	24.65	2611	25.83	2670	27.00	2726	28.15	2781	29.30		

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate □ H - High Pressure □

The U.S. FAN class range is in the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.

For minimum motor size required see "Fan Starting Requirements," page 7.

Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).

Refer to factors on page 9 to convert numbers above to the desired metric units.

MAXIMUM OPERATING SPEEDS

SIZE 15MB	-20° to 150°F -29° to 66°C
STD	2200
I SERIES	2440
H SERIES	NA

Wheel Diameter	26.13 inches	664 mm
Wheel Circumference	6.84 feet	2.085 m
Inlet Diameter/Area	15 inches dia./1.167 sq. ft.	381 mm/1.084 m ²
Outlet Size/Area	14.31 x 12.88 inches/ 1.230 sq. ft.	363 mm x 327 mm/ .1143 m ²
Tip Speed	6.84 x RPM ft./minute	2.085 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1230	1000	•392	•0.15	•528	•0.30	730	0.64														
1476	1200	412	0.20	541	0.36	737	0.73	893	1.16												
1722	1400	434	0.26	554	0.43	•746	•0.83	900	1.30	1032	1.80										
1968	1600	457	0.33	573	0.52	758	0.96	908	1.43	1038	1.98	1154	2.55	1260	3.17						
2214	1800	481	0.41	594	0.63	771	1.09	•919	•1.61	1046	2.16	1161	2.78	1265	3.42	1362	4.09	1452	4.79		
2460	2000	507	0.51	616	0.75	784	1.22	931	1.79	•1055	•2.37	1168	3.01	1272	3.69	1368	4.39	1457	5.12	1542	5.88
2706	2200	534	0.62	639	0.89	803	1.41	943	1.99	1068	2.62	•1177	•3.26	1280	3.96	1375	4.70	1464	5.47	1547	6.26
2952	2400	561	0.75	663	1.04	824	1.62	956	2.19	1080	2.87	1189	3.57	•1289	•4.27	1382	5.03	1471	5.83	1555	6.66
3198	2600	593	0.91	688	1.21	845	1.84	974	2.45	1093	3.14	1202	3.88	1301	4.63	•1392	•5.39	1479	6.20	1562	7.07
3444	2800	625	1.09	714	1.41	867	2.09	994	2.75	1106	3.41	1214	4.20	1313	5.01	1404	5.81	•1488	•6.63	1569	7.48
3690	3000	658	1.29	740	1.62	890	2.35	1015	3.07	1124	3.77	1227	4.54	1325	5.39	1416	6.25	1500	7.11	•1580	•7.98
3936	3200	691	1.52	767	1.86	914	2.64	1035	3.41	1144	4.16	1241	4.90	1338	5.79	1428	6.69	1513	7.61	1592	8.53
4182	3400	725	1.78	794	2.12	938	2.95	1058	3.77	1164	4.58	1260	5.37	1351	6.20	1441	7.15	1525	8.12	1604	9.09
4428	3600	758	2.07	826	2.43	962	3.28	1081	4.16	1185	5.02	1281	5.87	1368	6.69	1454	7.63	1538	8.64	1616	9.66
4674	3800	793	2.38	858	2.77	988	3.65	1104	4.58	1207	5.49	1301	6.39	1388	7.27	1468	8.14	1550	9.18	1629	10.25
4920	4000	827	2.73	890	3.15	1014	4.05	1128	5.03	1229	5.99	1322	6.94	1408	7.88	1488	8.80	1563	9.73	1642	10.85
5166	4200	862	3.12	923	3.55	1040	4.48	1152	5.50	1253	6.52	1343	7.51	1428	8.51	1508	9.48	1582	10.44	1654	11.46
5412	4400	897	3.54	956	4.00	1067	4.94	1176	6.00	1276	7.08	1365	8.13	1449	9.17	1528	10.20	1602	11.22	1672	12.22
5658	4600	934	4.01	989	4.48	1094	5.43	1202	6.55	1300	7.67	1388	8.78	1470	9.86	1548	10.95	1622	12.02	1691	13.08
5904	4800	970	4.52	1023	5.00	1121	5.96	1228	7.13	1323	8.29	1412	9.46	1493	10.60	1569	11.73	1642	12.86	1711	13.97
6150	5000	1007	5.07	1057	5.56	1153	6.57	1254	7.75	1348	8.95	1435	10.17	1516	11.37	1590	12.55	1663	13.73	1732	14.89
6396	5200	1044	5.67	1091	6.17	1185	7.22	1280	8.41	1373	9.65	1459	10.92	1539	12.18	1613	13.41	1683	14.63	1752	15.85
6642	5400	1081	6.31	1125	6.82	1217	7.92	1307	9.10	1398	10.41	1483	11.71	1562	13.02	1636	14.31	1705	15.58	1773	16.85
6888	5600	1118	7.00	1159	7.51	1249	8.66	1334	9.84	1424	11.20	1507	12.53	1586	13.90	1659	15.25	1728	16.57	1793	17.88

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2706	2200	1627	7.07	1703	7.91	1776	8.77														
2952	2400	1633	7.50	1708	8.37	1781	9.26	1851	10.18	1918	11.11										
3198	2600	1641	7.95	1715	8.85	1787	9.77	1856	10.72	1923	11.68	1987	12.67	2050	13.67	2110	14.69				
3444	2800	1648	8.41	1723	9.35	1794	10.31	1862	11.28	1928	12.28	1992	13.29	2054	14.33	2115	15.38	2173	16.45	2230	17.53
3690	3000	1655	8.87	1730	9.85	1801	10.85	1870	11.87	1935	12.90	1999	13.94	2060	15.00	2120	16.08	2178	17.19	2235	18.31
3936	3200	•1667	•9.45	•1738	•10.39	1809	11.41	1877	12.46	1943	13.53	2006	14.61	2067	15.71	2127	16.83	2184	17.95	2240	19.09
4182	3400	1679	10.06	1750	11.04	•1818	•12.03	1884	13.06	1950	14.17	2013	15.30	2074	16.43	2134	17.59	2191	18.75	2247	19.93
4428	3600	1691	10.69	1762	11.72	1830	12.75	•1895	•13.79	•1958	•14.84	2020	15.98	2082	17.16	2141	18.35	2198	19.56	2254	20.78
4674	3800	1703	11.32	1774	12.41	1842	13.49	1907	14.58	1970	15.67	•2030	•16.77	2089	17.90	2148	19.13	2206	20.38	2261	21.63
4920	4000	1716	11.97	1787	13.10	1854	14.24	1919	15.38	1982	16.52	2042	17.67	•2100	•18.82	•2157	•19.98	2213	21.20	2269	22.50
5166	4200	1729	12.64	1799	13.82	1867	15.00	1931	16.19	1994	17.39	2054	18.58	2112	19.78	2168	20.98	•2223	•22.19	•2276	•23.41
5412	4400	1741	13.32	1812	14.55	1879	15.78	1944	17.02	2006	18.27	2066	19.51	2124	20.76	2180	22.01	2235	23.27	2288	24.53
5658	4600	1757	14.12	1825	15.30	1892	16.58	1956	17.87	2018	19.16	2078	20.46	2136	21.76	2192	23.06	2247	24.36	2300	25.67
5904	4800	1777	15.06	1840	16.15	1904	17.40	1969	18.73	2031	20.07	2091	21.42	2149	22.77	2205	24.12	2259	25.47	2312	26.83
6150	5000	1797	16.04	1859	17.18	1919	18.30	1982	19.62	2043	21.01	2103	22.40	2161	23.80	2217	25.20	2271	26.60	2324	28.01
6396	5200	1817	17.06	1879	18.25	1939	19.43	1996	20.59	2056	21.96	2116	23.40	2173	24.84	2229	26.29	2284	27.75	2336	29.20
6642	5400	1838	18.11	1900	19.35	1959	20.59	2016	21.81	2071	23.01	2128	24.42	2186	25.92	2242	27.41	2296	28.91	2349	30.42
6888	5600	1858	19.20	1920	20.50	1979	21.78	2036	23.06	2090	24.32	2143	25.57	2199	27.01	2254	28.55	2308	30.10	2361	31.65
7134	5800	1879	20.32	1940	21.68	1999	23.02	2056	24.35	2110	25.66	2163	26.97	2214	28.26	2267	29.71	2321	31.31	2374	32.91
7380	6000	1900	21.50	1961	22.90	2019	24.30	2076	25.68	2130	27.05	2183	28.40	2234	29.75	2283	31.08	2334	32.54	2386	34.19
7626	6200	1923	22.73	1981	24.16	2040	25.62	2096	27.05	2150	28.48	2203	29.89	2254	31.28	2303	32.67	2351	34.05	2399	35.49
7872	6400	1946	24.00	2004	25.49	2061	26.98	2117	28.47	2171	29.95	2223	31.41	2274	32.86	2323	34.30	2370	35.73	2417	37.15
8118	6600	1969	25.31	2027	26.86	2082	28.39	2137	29.93	2191	31.46	2243	32.98	2294	34.48	2343	35.98	2390	37.46	2436	38.93
8364	6800	1992	26.68	2049	28.28	2105	29.87	2158	31.43	2212	33.02	2263	34.59	2314	36.15	2363	37.70	2410	39.23		

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard ☐ I - Intermediate ☐ H - High Pressure ☐

The U.S. FAN class range is in the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 9.

For minimum motor size required see "Fan Starting Requirements," page 9.

Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).

Refer to factors on page 9 to convert numbers above to the desired metric units.

Backplate Material Handling Wheel

SIZE 17MB

MAXIMUM OPERATING SPEEDS

Wheel Diameter	29.63 inches	753 mm
Wheel Circumference	7.76 feet	2.365 m
Inlet Diameter/Area	17 inches dia./1.507 sq. ft.	432 mm/.1400 m ²
Outlet Size/Area	16.31 x 14.50 inches/ 1.580 sq. ft.	414 mm x 368 mm/ .1468 m ²
Tip Speed	7.76 x RPM ft./minute	2.365 x RPM m/minute

SIZE 17MB	-20° to 150°F -29° to 66°C
STD	1930
I SERIES	2150
H SERIES	NA

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1580	1000	•346	•0.20	•466	•0.38	644	0.83														
1896	1200	363	0.26	477	0.46	650	0.94	788	1.50												
2212	1400	382	0.34	488	0.55	•658	•1.07	794	1.67	910	2.32										
2528	1600	403	0.42	505	0.67	669	1.23	800	1.84	916	2.54	1017	3.28	1111	4.07						
2844	1800	424	0.53	523	0.81	680	1.39	•810	•2.06	922	2.78	1024	3.57	1115	4.39	1201	5.26	1281	6.16		
3160	2000	447	0.65	543	0.96	691	1.57	821	2.30	•931	•3.05	1030	3.86	1122	4.74	1206	5.64	1285	6.58	1360	7.56
3476	2200	471	0.79	563	1.14	708	1.81	832	2.55	941	3.37	•1038	•4.19	1128	5.09	1213	6.05	1291	7.03	1364	8.04
3792	2400	495	0.96	584	1.34	726	2.08	843	2.82	952	3.69	1049	4.58	•1136	•5.48	1219	6.46	1297	7.49	1371	8.55
4108	2600	523	1.16	606	1.55	745	2.36	859	3.15	964	4.03	1060	4.98	1147	5.95	•1227	•6.92	1304	7.97	1377	9.08
4424	2800	551	1.39	629	1.80	764	2.68	876	3.53	975	4.38	1071	5.40	1158	6.43	1238	7.46	•1312	•8.51	1384	9.61
4740	3000	580	1.66	652	2.08	785	3.02	895	3.94	991	4.83	1082	5.83	1169	6.92	1248	8.03	1323	9.13	•1393	•10.25
5056	3200	609	1.95	676	2.38	806	3.39	913	4.37	1009	5.34	1094	6.29	1180	7.43	1260	8.60	1334	9.77	1404	10.95
5372	3400	639	2.28	700	2.72	827	3.78	933	4.84	1027	5.88	1111	6.89	1191	7.96	1271	9.19	1345	10.43	1414	11.68
5688	3600	668	2.65	728	3.12	848	4.21	953	5.34	1045	6.44	1129	7.53	1206	8.59	1282	9.79	1356	11.10	1425	12.41
6004	3800	698	3.06	756	3.56	871	4.69	974	5.88	1064	7.05	1147	8.20	1223	9.33	1294	10.45	1367	11.79	1436	13.16
6320	4000	729	3.50	785	4.04	894	5.20	994	6.45	1084	7.69	1165	8.91	1241	10.11	1311	11.29	1378	12.50	1448	13.93
6636	4200	759	4.00	813	4.56	917	5.75	1016	7.06	1104	8.37	1184	9.65	1259	10.92	1329	12.18	1395	13.41	1459	14.72
6952	4400	790	4.54	842	5.13	940	6.34	1037	7.70	1125	9.09	1204	10.44	1277	11.77	1347	13.10	1412	14.40	1474	15.69
7268	4600	823	5.14	872	5.75	964	6.97	1059	8.40	1146	9.84	1224	11.27	1296	12.66	1365	14.06	1430	15.43	1491	16.79
7584	4800	855	5.80	901	6.42	988	7.64	1082	9.15	1167	10.64	1244	12.14	1316	13.61	1383	15.06	1448	16.51	1509	17.93
7900	5000	887	6.50	931	7.14	1016	8.42	1105	9.95	1188	11.48	1265	13.06	1336	14.60	1402	16.11	1466	17.62	1527	19.12
8216	5200	920	7.27	961	7.91	1044	9.26	1129	10.79	1210	12.39	1286	14.02	1356	15.63	1422	17.21	1484	18.78	1545	20.35
8532	5400	952	8.09	991	8.74	1072	10.16	1152	11.68	1233	13.35	1307	15.03	1377	16.71	1442	18.37	1503	20.00	1563	21.63
8848	5600	985	8.98	1021	9.63	1101	11.11	1176	12.62	1255	14.37	1328	16.08	1398	17.84	1462	19.57	1523	21.27	1581	22.95

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3476	2200	1435	9.09	1502	10.17	1566	11.27														
3792	2400	1440	9.64	1507	10.75	1571	11.91	1632	13.08	1691	14.28										
4108	2600	1447	10.22	1513	11.38	1576	12.56	1636	13.77	1695	15.01	1752	16.28	1807	17.57						
4424	2800	1453	10.80	1519	12.01	1582	13.25	1642	14.50	1700	15.77	1757	17.08	1812	18.41	1865	19.76	1917	21.14	1967	22.53
4740	3000	1460	11.40	1525	12.66	1588	13.95	1649	15.25	1707	16.57	1763	17.92	1817	19.28	1869	20.66	1921	22.09	1971	23.53
5056	3200	•1470	•12.14	•1533	•13.34	1595	14.65	1655	16.01	1713	17.38	1769	18.78	1823	20.19	1875	21.62	1926	23.07	1975	24.53
5372	3400	1480	12.93	1543	14.19	•1603	•15.46	1661	16.78	1719	18.21	1775	19.65	1829	21.12	1882	22.60	1932	24.09	1982	25.61
5688	3600	1491	13.73	1554	15.05	1614	16.38	•1671	•17.72	•1726	•19.06	1782	20.54	1836	22.05	1888	23.58	1939	25.13	1988	26.69
6004	3800	1502	14.54	1564	15.93	1624	17.32	1682	18.72	1737	20.13	•1790	•21.54	1842	23.00	1894	24.58	1945	26.18	1994	27.80
6320	4000	1513	15.38	1575	16.83	1635	18.29	1692	19.75	1747	21.22	1800	22.69	•1852	•24.17	•1902	•25.66	1951	27.24	2000	28.91
6636	4200	1524	16.23	1586	17.75	1646	19.27	1703	20.80	1758	22.33	1811	23.87	1862	25.41	1912	26.95	•1960	•28.51	•2007	•30.07
6952	4400	1535	17.11	1598	18.69	1657	20.27	1714	21.86	1769	23.46	1822	25.06	1873	26.66	1923	28.27	1971	29.89	2018	31.51
7268	4600	1549	18.13	1609	19.65	1668	21.30	1725	22.95	1780	24.61	1832	26.28	1884	27.95	1933	29.62	1981	31.29	2028	32.97
7584	4800	1567	19.34	1622	20.73	1679	22.35	1736	24.06	1791	25.78	1843	27.51	1894	29.24	1944	30.98	1992	32.72	2039	34.46
7900	5000	1584	20.60	1639	22.06	1692	23.50	1747	25.20	1802	26.98	1854	28.77	1905	30.56	1955	32.36	2003	34.17	2049	35.98
8216	5200	1602	21.90	1657	23.43	1709	24.94	1760	26.44	1813	28.20	1866	30.05	1916	31.91	1966	33.77	2013	35.64	2060	37.51
8532	5400	1620	23.25	1675	24.85	1727	26.43	1777	27.99	1826	29.55	1877	31.37	1927	33.28	1977	35.21	2024	37.14	2071	39.07
8848	5600	1638	24.64	1692	26.31	1745	27.97	1795	29.60	1843	31.22	1890	32.83	1939	34.69	1988	36.67	2035	38.66	2082	40.65
9164	5800	1656	26.09	1710	27.83	1762	29.55	1812	31.26	1860	32.95	1907	34.62	1952	36.28	1999	38.16	2046	40.21	2093	42.27
9480	6000	1675	27.59	1729	29.40	1780	31.19	1830	32.97	1878	34.72	1924	36.47	1969	38.19	2013	39.91	2058	41.80	2104	43.91
9796	6200	1695	29.17	1747	31.02	1798	32.88	1848	34.73	1896	36.56	1942	38.37	1987	40.16	2030	41.94	2072	43.71	2115	45.59
10112	6400	1715	30.80	1766	32.72	1816	34.63	1866	36.54	1914	38.44	1960	40.32	2004	42.19	2048	44.04	2090	45.87	2131	47.69
10428	6600	1735	32.49	1786	34.48	1836	36.44	1884	38.42	1932	40.39	1978	42.34	2022	44.27	2065	46.19	2107	48.09	2148	49.98
10744	6800	1756	34.24	1807	36.30	1855	38.34	1903	40.35	1950	42.39	1995	44.41	2040	46.41	2083	48.40	2125	50.37		

•Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate □ H - High Pressure □
The U.S. FAN class range is in the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.
For minimum motor size required see "Fan Starting Requirements," page 7.
Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).
Refer to factors on page 9 to convert numbers above to the desired metric units.

Backplate Material Handling Wheel

SIZE 21MB

MAXIMUM OPERATING SPEEDS

Wheel Diameter	36.50 inches	927 mm
Wheel Circumference	9.56 feet	2.914 m
Inlet Diameter/Area	21 inches dia./2.290 sq. ft.	533 mm/.2127 m ²
Outlet Size/Area	19.81 x 18.13 inches/ 2.410 sq. ft.	503 mm x 461 mm/ .2239 m ²
Tip Speed	9.56 x RPM ft./minute	2.914 x RPM m/minute

SIZE 21MB	-20° to 150°F -29° to 66°C
STD	1570
I SERIES	1746
H SERIES	NA

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2892	1200	296	0.40	388	0.72	524	1.41														
3374	1400	311	0.52	398	0.87	•532	•1.63														
3856	1600	326	0.65	412	1.05	543	1.90	•646	•2.79	738	3.80										
4338	1800	346	0.81	426	1.25	554	2.19	656	3.16	744	4.19	825	5.33								
4820	2000	366	1.01	441	1.49	564	2.50	667	3.57	•753	•4.66	831	5.83	904	7.09						
5302	2200	387	1.23	456	1.75	578	2.85	678	4.01	764	5.19	•840	•6.39	910	7.68	977	9.06	1040	10.48		
5784	2400	408	1.49	474	2.05	592	3.23	688	4.47	775	5.76	851	7.05	•919	•8.35	984	9.76	1046	11.26	1104	12.78
6266	2600	431	1.80	494	2.40	606	3.66	701	4.98	785	6.35	861	7.74	930	9.14	•992	•10.55	•1052	•12.05	•1111	•13.66
6748	2800	454	2.15	514	2.79	621	4.13	714	5.53	796	6.97	872	8.47	941	9.96	1003	11.47	1061	12.99	•1117	•14.56
7230	3000	477	2.55	535	3.22	636	4.64	728	6.12	809	7.65	882	9.22	951	10.83	1014	12.43	1073	14.04	1127	15.66
7712	3200	501	2.99	556	3.70	652	5.19	743	6.77	822	8.38	893	10.02	961	11.72	1025	13.42	1084	15.13	1138	16.85
8194	3400	525	3.49	578	4.23	671	5.81	758	7.47	836	9.15	907	10.89	972	12.65	1035	14.46	1094	16.27	1149	18.08
8676	3600	549	4.04	600	4.84	690	6.49	773	8.22	850	9.98	920	11.81	984	13.64	1046	15.53	1104	17.44	1159	19.35
9158	3800	574	4.66	623	5.50	711	7.24	789	9.02	865	10.89	934	12.77	998	14.71	1057	16.64	1115	18.65	1170	20.67
9640	4000	599	5.34	646	6.23	731	8.04	805	9.87	880	11.85	948	13.80	1012	15.83	1070	17.86	1125	19.90	1180	22.03
10122	4200	624	6.10	670	7.02	752	8.90	824	10.83	896	12.87	963	14.92	1026	17.00	1084	19.14	1138	21.27	1191	23.42
10604	4400	650	6.92	693	7.88	772	9.82	844	11.87	911	13.93	978	16.11	1040	18.24	1098	20.46	1152	22.70	1203	24.92
11086	4600	676	7.82	717	8.81	794	10.82	864	12.97	927	15.06	994	17.35	1055	19.59	1112	21.84	1166	24.18	1217	26.51
11568	4800	701	8.80	741	9.82	815	11.91	884	14.14	946	16.33	1009	18.65	1070	21.01	1126	23.32	1180	25.72	1230	28.16
12050	5000	727	9.86	765	10.90	838	13.09	905	15.38	966	17.68	1024	20.01	1085	22.48	1141	24.91	1193	27.32	1244	29.86
12532	5200	753	11.00	789	12.07	861	14.36	926	16.70	986	19.11	1041	21.46	1100	24.02	1156	26.57	1208	29.08	1258	31.63
13014	5400	779	12.23	814	13.33	884	15.72	946	18.10	1006	20.61	1060	23.07	1115	25.63	1171	28.29	1223	30.92	1272	33.50
13496	5600	805	13.55	839	14.69	907	17.16	968	19.58	1026	22.20	1080	24.76	1131	27.30	1186	30.09	1238	32.82	1287	35.52
13978	5800	832	14.97	865	16.15	930	18.69	989	21.17	1047	23.88	1100	26.54	1150	29.16	1202	31.95	1253	34.80	1302	37.62

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6748	2800	1172	16.28	1225	18.03	1275	19.81	1323	21.61												
7230	3000	•1179	•17.29	1231	19.12	1281	20.98	1329	22.86	1375	24.77	1419	26.69								
7712	3200	1190	18.57	•1239	•20.30	•1287	•22.16	1335	24.13	1381	26.12	1426	28.13	1468	30.16	1510	32.22				
8194	3400	1201	19.90	1249	21.72	1296	23.55	•1341	•25.43	1387	27.50	1432	29.59	1475	31.71	1516	33.84	1557	36.00	1596	38.17
8676	3600	1212	21.26	1261	23.19	1307	25.12	1352	27.05	•1395	•28.99	•1438	•31.08	1481	33.27	1522	35.49	1563	37.73	1602	39.98
9158	3800	1222	22.68	1271	24.70	1318	26.72	1363	28.75	1406	30.79	1447	32.83	•1487	•34.87	1529	37.17	1569	39.49	1608	41.82
9640	4000	1232	24.14	1282	26.26	1329	28.38	1374	30.50	1417	32.63	1458	34.77	1498	36.91	•1537	•39.05	•1575	•41.27	1614	43.69
10122	4200	1243	25.65	1292	27.87	1339	30.09	1385	32.31	1428	34.53	1469	36.76	1509	38.99	1548	41.23	1585	43.47	•1622	•45.72
10604	4400	1253	27.20	1302	29.52	1350	31.85	1395	34.17	1438	36.49	1480	38.80	1520	41.13	1559	43.47	1596	45.80	1633	48.15
11086	4600	1265	28.83	1313	31.22	1360	33.65	1405	36.07	1448	38.49	1490	40.91	1531	43.33	1570	45.76	1607	48.19	1644	50.63
11568	4800	1278	30.58	1324	33.00	1370	35.50	1415	38.03	1459	40.55	1501	43.07	1541	45.59	1580	48.11	1618	50.63	1655	53.16
12050	5000	1292	32.39	1338	34.91	1382	37.43	1426	40.03	1469	42.66	1511	45.28	1551	47.91	1590	50.53	1628	53.15	1665	55.76
12532	5200	1306	34.27	1351	36.89	1395	39.51	1437	42.12	1480	44.82	1521	47.55	1562	50.27	1601	53.00	1639	55.72	1676	58.43
13014	5400	1320	36.20	1365	38.93	1409	41.65	1450	44.36	1491	47.07	1532	49.86	1572	52.69	1611	55.52	1649	58.34	1686	61.16
13496	5600	1334	38.20	1379	41.04	1422	43.86	1464	46.68	1504	49.48	1543	52.28	1582	55.17	1621	58.10	1659	61.02	1696	63.94
13978	5800	1348	40.39	1393	43.21	1436	46.14	1478	49.06	1518	51.97	1556	54.87	1594	57.77	1632	60.73	1669	63.76	1706	66.78
14460	6000	1363	42.68	1407	45.54	1450	48.49	1491	51.52	1531	54.53	1570	57.53	1607	60.53	1644	63.52	1680	66.56	1717	69.69
14942	6200	1378	45.03	1422	48.01	1464	50.95	1505	54.04	1545	57.16	1584	60.27	1621	63.36	1657	66.45	1692	69.53	1727	72.64
15424	6400	1393	47.47	1437	50.56	1479	53.61	1519	56.64	1559	59.87	1597	63.08	1634	66.28	1671	69.47	1706	72.65	1740	75.83
15906	6600	1408	49.99	1452	53.19	1494	56.35	1534	59.49	1573	62.65	1611	65.97	1648	69.27	1684	72.56	1719	75.85		
16388	6800	1423	52.59	1467	55.91	1509	59.18	1549	62.43	1587	65.65	1625	68.93	1662	72.34	1698	75.74	1733	79.12		
16870	7000	1439	55.28	1482	58.71	1524	62.10	1563	65.46	1602	68.79	1639	72.09	1676	75.49	1712	78.99	1746	82.48		
17352	7200	1454	58.05	1497	61.60	1539	65.10	1578	68.58	1617	72.02	1654	75.43	1690	78.81	1725	82.33				
17834	7400	1472	61.03	1513	64.58	1554	68.20	1593	71.79	1632	75.34	1669	78.86	1705	82.35	1739	85.82				

•Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate □ H - High Pressure □
The U.S. FAN class range is in the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.
For minimum motor size required see "Fan Starting Requirements," page 7.
Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).
Refer to factors on page 9 to convert numbers above to the desired metric units.

Backplate Material Handling Wheel

SIZE 26MB

MAXIMUM OPERATING SPEEDS

Wheel Diameter	45.13 inches	1146 mm
Wheel Circumference	11.81 feet	3.600 m
Inlet Diameter/Area	26 inches dia./3.55 sq. ft.	660 mm/.3298 m ²
Outlet Size/Area	24.31 x 22.38 inches/ 3.680 sq. ft.	617 mm x 568 mm/ .3419 m ²
Tip Speed	11.81 x RPM ft./minute	3.600 x RPM m/minute

SIZE 26MB	-20° to 150°F -29° to 66°C
STD	1275
I SERIES	1404
H SERIES	NA

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4416	1200	239	0.62	314	1.10	424	2.16														
5152	1400	251	0.79	322	1.33	●430	●2.49	517	3.80												
5888	1600	264	0.99	333	1.60	439	2.90	●522	●4.26	597	5.80										
6624	1800	279	1.24	344	1.91	448	3.35	531	4.83	602	6.41	667	8.15								
7360	2000	296	1.54	357	2.27	456	3.82	540	5.46	●609	●7.11	672	8.90	731	10.83						
8096	2200	313	1.88	369	2.67	467	4.36	548	6.13	618	7.93	●679	●9.75	736	11.73	790	13.84	841	16.01		
8832	2400	330	2.28	383	3.13	478	4.94	556	6.83	627	8.79	688	10.76	●743	●12.75	796	14.90	846	17.19	893	19.52
9568	2600	348	2.74	399	3.66	490	5.58	567	7.60	635	9.70	697	11.82	752	13.96	●803	●16.11	●851	●18.40	898	20.86
10304	2800	367	3.28	416	4.25	502	6.30	578	8.44	643	10.64	705	12.93	761	15.21	811	17.51	858	19.83	●903	●22.23
11040	3000	386	3.88	432	4.91	515	7.08	589	9.34	654	11.68	714	14.08	769	16.53	820	18.97	867	21.43	911	23.91
11776	3200	405	4.56	449	5.64	527	7.91	601	10.33	665	12.80	722	15.29	778	17.89	829	20.49	876	23.10	920	25.72
12512	3400	424	5.32	467	6.46	542	8.86	613	11.40	676	13.97	733	16.62	786	19.31	837	22.07	885	24.83	929	27.60
13248	3600	444	6.16	485	7.38	558	9.91	625	12.55	688	15.23	744	18.03	796	20.83	846	23.70	893	26.62	938	29.54
13984	3800	464	7.10	504	8.39	574	11.04	638	13.76	700	16.62	756	19.50	807	22.46	854	25.40	901	28.47	946	31.55
14720	4000	484	8.15	522	9.50	591	12.26	651	15.05	712	18.09	767	21.05	818	24.16	865	27.27	910	30.38	954	33.62
15456	4200	505	9.30	541	10.70	608	13.57	666	16.53	724	19.64	779	22.77	829	25.94	876	29.21	920	32.46	963	35.76
16192	4400	525	10.56	560	12.01	624	14.99	682	18.10	737	21.26	791	24.58	841	27.83	888	31.23	931	34.64	973	38.04
16928	4600	546	11.93	580	13.43	641	16.50	699	19.78	749	22.97	803	26.47	853	29.90	899	33.33	943	36.91	984	40.47
17664	4800	567	13.42	599	14.97	659	18.16	715	21.57	765	24.91	816	28.45	865	32.05	911	35.59	954	39.26	995	42.98
18400	5000	588	15.03	618	16.62	677	19.97	732	23.46	781	26.97	828	30.53	877	34.31	923	38.02	965	41.70	1006	45.58
19136	5200	609	16.77	638	18.39	696	21.90	748	25.48	797	29.15	842	32.74	889	36.66	935	40.55	977	44.38	1017	48.27
19872	5400	630	18.65	658	20.32	714	23.97	765	27.61	813	31.45	857	35.19	902	39.11	947	43.18	989	47.18	1029	51.13
20608	5600	651	20.66	678	22.40	733	26.16	782	29.87	830	33.87	873	37.78	914	41.66	959	45.91	1001	50.09	1041	54.21
21344	5800	672	22.82	699	24.62	752	28.50	800	32.28	846	36.42	889	40.49	929	44.49	972	48.75	1013	53.11	1053	57.40

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10304	2800	948	24.87	990	27.54	1031	30.25	1070	33.00												
11040	3000	●953	●26.39	996	29.19	1036	32.04	1075	34.91	1112	37.82	1148	40.77								
11776	3200	962	28.35	●1002	●31.00	1041	33.85	1080	36.85	1117	39.89	1153	42.96	1188	46.07	1221	49.20				
12512	3400	971	30.38	1011	33.16	●1048	●35.96	●1085	●38.83	1122	42.00	1158	45.19	1193	48.42	1226	51.68	1259	54.97	1291	58.29
13248	3600	980	32.46	1019	35.40	1057	38.35	1093	41.30	●1128	●44.26	●1163	●47.46	1198	50.82	1231	54.20	1264	57.62	1296	61.06
13984	3800	988	34.63	1028	37.71	1066	40.80	1102	43.90	1137	47.00	1170	50.12	●1203	●53.25	1236	56.76	1269	60.30	1301	63.87
14720	4000	997	36.86	1037	40.09	1075	43.33	1111	46.57	1146	49.82	1179	53.08	1212	56.35	●1243	●59.62	●1274	●63.03	1306	66.72
15456	4200	1005	39.15	1045	42.55	1083	45.94	1120	49.32	1155	52.72	1188	56.12	1220	59.54	1252	62.95	1282	66.38	●1312	●69.81
16192	4400	1013	41.52	1053	45.07	1091	48.62	1128	52.16	1163	55.70	1197	59.24	1229	62.80	1261	66.37	1291	69.93	1320	73.51
16928	4600	1023	44.01	1062	47.66	1100	51.37	1136	55.07	1171	58.77	1205	62.46	1238	66.16	1270	69.86	1300	73.57	1329	77.29
17664	4800	1034	46.68	1071	50.37	1108	54.19	1145	58.05	1180	61.91	1214	65.76	1246	69.61	1278	73.45	1309	77.30	1338	81.17
18400	5000	1045	49.44	1082	53.29	1117	57.13	1153	61.11	1188	65.12	1222	69.13	1255	73.14	1286	77.14	1317	81.14	1347	85.13
19136	5200	1056	52.30	1093	56.31	1128	60.30	1162	64.29	1197	68.42	1230	72.59	1263	76.75	1295	80.91	1325	85.06	1355	89.21
19872	5400	1067	55.25	1104	59.42	1139	63.58	1173	67.72	1206	71.85	1239	76.12	1271	80.44	1303	84.76	1334	89.07	1363	93.37
20608	5600	1078	58.30	1115	62.64	1150	66.95	1184	71.25	1216	75.53	1248	79.81	1280	84.22	1311	88.69	1342	93.16	1372	97.62
21344	5800	1090	61.65	1126	65.95	1161	70.43	1195	74.89	1227	79.33	1259	83.76	1289	88.17	1320	92.71	1350	97.34	1380	101.95
22080	6000	1102	65.12	1138	69.49	1173	74.01	1206	78.63	1238	83.23	1270	87.82	1300	92.39	1329	96.95	1359	101.60	1388	106.38
22816	6200	1114	68.72	1150	73.26	1184	77.75	1217	82.49	1249	87.25	1281	91.99	1311	96.72	1340	101.43	1368	106.14	1397	110.90
23552	6400	1126	72.44	1162	77.15	1196	81.81	1228	86.45	1261	91.38	1292	96.28	1322	101.16	1351	106.04	1379	110.89		
24288	6600	1139	76.28	1174	81.17	1208	86.00	1240	90.79	1272	95.62	1303	100.68	1333	105.73	1362	110.76	1390	115.77		
25024	6800	1151	80.25	1186	85.31	1220	90.32	1252	95.27	1283	100.19	1314	105.21	1344	110.41	1373	115.60	1401	120.77		
25760	7000	1163	84.35	1198	89.58	1232	94.76	1264	99.89	1295	104.97	1326	110.01	1355	115.22	1384	120.57				
26496	7200	1176	88.58	1211	93.99	1244	99.35	1276	104.65	1307	109.90	1337	115.11	1367	120.27	1395	125.66				
27232	7400	1190	93.11	1223	98.54	1256	104.07	1288	109.54	1319	114.97	1349	120.34	1378	125.68						

●Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate ■ H - High Pressure ■
The U.S. FAN class range is in the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.
For minimum motor size required see "Fan Starting Requirements," page 7.
Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).
Refer to factors on page 9 to convert numbers above to the desired metric units.

Air Handling Wheel

SIZE 05A

MAXIMUM OPERATING SPEEDS

SIZE 05A	-20° to 150°F -29° to 66°C
STD	6548
I SERIES	6850
H SERIES	NA

Wheel Diameter	8.63 inches	219 mm
Wheel Circumference	2.26 feet	.6889 m
Inlet Diameter/Area	5 inches dia./136 sq. ft.	127 mm/.0126 m ²
Outlet Size/Area	4.71 x 4.31 inches/.130 sq. ft.	120 x 109 mm/.0121 m ²
Tip Speed	2.26 x RPM ft./minute	.6889 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
279	2200	1785	0.06	2147	0.10	•2720	•0.18	3174	0.26	3560	0.35	3913	0.44	4242	0.54	4543	0.64				
305	2400	1874	0.07	2227	0.11	2785	0.20	3237	0.29	3622	0.38	3963	0.48	4284	0.58	4586	0.69	4867	0.80		
330	2600	1965	0.09	2307	0.13	2852	0.22	3298	0.32	3682	0.42	4022	0.52	4330	0.62	4627	0.73	4907	0.85	5171	0.97
356	2800	2057	0.10	2390	0.15	2919	0.24	•3364	•0.34	3745	0.45	4084	0.56	4391	0.67	4674	0.78	4950	0.94	5213	1.03
381	3000	2151	0.12	2475	0.17	2992	0.26	3429	0.37	3807	0.49	4144	0.60	4450	0.72	4733	0.84	4996	0.96	5254	1.09
406	3200	2248	0.13	2563	0.19	3070	0.29	3496	0.40	•3871	•0.52	4205	0.64	4510	0.77	4792	0.89	5055	1.02	5302	1.15
432	3400	2347	0.15	2652	0.21	3149	0.32	3564	0.43	3937	0.56	•4269	•0.69	4573	0.82	4854	0.95	5116	1.08	5363	1.22
457	3600	2446	0.17	2742	0.23	3230	0.35	3633	0.47	4003	0.60	4334	0.73	4635	0.87	4914	1.01	5176	1.15	5421	1.29
483	3800	2547	0.20	2833	0.26	3312	0.39	3711	0.51	4070	0.64	4399	0.78	•4699	•0.93	4978	1.07	5238	1.21	5483	1.36
508	4000	2648	0.22	2926	0.29	3394	0.42	3790	0.55	4138	0.68	4465	0.83	4764	0.98	•5039	•1.13	5299	1.28	5543	1.44
533	4200	2750	0.25	3020	0.32	3480	0.46	3869	0.60	4210	0.73	4532	0.88	4829	1.04	5104	1.19	5360	1.35	5604	1.51
559	4400	2854	0.28	3117	0.36	3567	0.50	3950	0.64	4287	0.78	4600	0.93	4895	1.09	5169	1.26	•5425	•1.43	5667	1.59
584	4600	2957	0.32	3214	0.39	3655	0.54	4031	0.69	4366	0.84	4667	0.99	4962	1.16	5235	1.33	5490	1.50	•5730	•1.67
610	4800	3062	0.35	3312	0.43	3744	0.59	4113	0.75	4445	0.90	4744	1.05	5029	1.22	5301	1.39	5555	1.57	5794	1.75
635	5000	3164	0.39	3412	0.47	3833	0.64	4197	0.80	4525	0.96	4822	1.12	5097	1.29	5368	1.47	5620	1.65	5859	1.84
660	5200	3267	0.43	3511	0.52	3924	0.69	4283	0.86	4606	1.03	4901	1.19	5172	1.36	5435	1.54	5687	1.73	5925	1.92
686	5400	3370	0.48	3612	0.57	4015	0.74	4370	0.92	4688	1.10	4980	1.27	5249	1.44	5503	1.62	5754	1.81	5991	2.01
711	5600	3474	0.52	3713	0.62	4108	0.80	4458	0.99	4770	1.17	5060	1.35	5328	1.53	5577	1.71	5821	1.90	6057	2.10
737	5800	3578	0.58	3815	0.67	4200	0.86	4546	1.05	4854	1.24	5141	1.43	5406	1.61	5654	1.80	5889	1.99	6124	2.20
762	6000	3682	0.63	3917	0.73	4296	0.93	4635	1.12	4940	1.32	5222	1.52	5486	1.71	5732	1.90	5964	2.09	6191	2.29
787	6200	3787	0.69	4020	0.79	4392	0.99	4725	1.20	5027	1.40	5304	1.60	5566	1.80	5811	2.00	6041	2.20	6259	2.39
813	6400	3893	0.75	4124	0.86	4489	1.07	4816	1.28	5114	1.49	5387	1.70	5647	1.90	5890	2.10	6119	2.31	6336	2.51
838	6600	3999	0.81	4228	0.93	4587	1.14	4907	1.36	5202	1.57	5473	1.79	5728	2.00	5970	2.21	6197	2.42	6413	2.63
864	6800	4105	0.88	4332	1.00	4685	1.22	4999	1.44	5291	1.67	5559	1.89	5810	2.11	6050	2.33	6276	2.54	6491	2.76

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
686	5400	6216	2.21	6430	2.41	•6636	•2.62														
711	5600	6281	2.31	6495	2.52	6700	2.73														
737	5800	6347	2.41	6561	2.62	6765	2.84														
762	6000	6414	2.51	6626	2.73	6830	2.95														

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate □ H - High Pressure □
The U.S. FAN class range is shown by the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.
For minimum motor size required see "Fan Starting Requirements," page 7.
Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).
Refer to factors on page 9 to convert numbers above to the desired metric units.

MAXIMUM OPERATING SPEEDS

SIZE 13A	-20° to 150°F -29° to 66°C
STD	2533
I SERIES	2923
H SERIES	NA

Wheel Diameter	22.63 inches	575 mm
Wheel Circumference	5.92 feet	1.804 m
Inlet Diameter/Area	13 inches dia./1.869 sq. ft.	330 mm/.0807 m ²
Outlet Size/Area	12.19 x 11.38 inches/ .920 sq. ft.	310 x 289 mm .0855 m ²
Tip Speed	5.92 x RPM ft./minute	1.804 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1104	1200	496	0.14	•647	•0.25	875	0.52														
1288	1400	522	0.17	667	0.30	889	0.59	1068	0.93												
1472	1600	549	0.21	689	0.36	•906	•0.68	1081	1.03	1232	1.42										
1656	1800	577	0.25	714	0.42	924	0.76	1095	1.14	1244	1.55	1377	1.99	1500	2.46						
1840	2000	607	0.30	740	0.48	944	0.86	•1113	•1.27	1258	1.69	1389	2.15	1509	2.63	1622	3.15				
2024	2200	637	0.36	767	0.55	967	0.97	1131	1.40	•1274	•1.85	1403	2.33	1522	2.84	1631	3.36	1736	3.92	1835	4.50
2208	2400	669	0.42	795	0.64	991	1.09	1151	1.54	1292	2.02	1419	2.53	1536	3.05	1645	3.60	1746	4.17	1844	4.76
2392	2600	701	0.49	824	0.73	1017	1.21	1172	1.70	1311	2.21	•1437	•2.74	1551	3.28	1659	3.86	1760	4.45	1855	5.06
2576	2800	734	0.58	853	0.83	1043	1.34	1196	1.87	1331	2.40	1455	2.96	•1569	•3.53	•1674	4.12	1774	4.74	1869	5.37
2760	3000	768	0.67	884	0.94	1069	1.48	1221	2.05	1352	2.61	1475	3.19	1587	3.79	•1692	•4.41	1789	5.04	1883	5.70
2944	3200	803	0.78	914	1.06	1096	1.64	1246	2.24	1377	2.83	1495	3.44	1606	4.07	1710	4.71	•1807	•5.38	1898	6.05
3128	3400	839	0.90	946	1.19	1125	1.81	1272	2.44	1401	3.08	1517	3.70	1626	4.36	1728	5.03	1825	5.72	•1916	•6.42
3312	3600	875	1.03	978	1.34	1153	1.99	1298	2.64	1426	3.33	1541	3.99	1646	4.66	1748	5.36	1843	6.08	1934	6.81
3496	3800	911	1.17	1011	1.50	1182	2.18	1325	2.86	1452	3.58	1565	4.29	1670	4.99	1768	5.71	1863	6.45	1952	7.20
3680	4000	948	1.33	1044	1.67	1212	2.38	1353	3.10	1478	3.85	1590	4.61	1694	5.34	1790	6.08	1883	6.84	1972	7.63
3864	4200	985	1.50	1078	1.86	1242	2.60	1381	3.36	1504	4.12	1616	4.92	1718	5.71	1814	6.47	1903	7.25	1992	8.06
4048	4400	1022	1.69	1113	2.06	1272	2.84	1410	3.63	1531	4.42	1642	5.25	1743	6.09	1838	6.89	1927	7.70	2012	8.51
4232	4600	1060	1.89	1148	2.28	1303	3.09	1439	3.92	1559	4.74	1668	5.59	1769	6.46	1863	7.32	1951	8.16	2035	9.00
4416	4800	1098	2.11	1184	2.52	1335	3.35	1468	4.22	1587	5.08	1694	5.94	1795	6.85	1888	7.77	1976	8.64	2059	9.52
4600	5000	1136	2.35	1220	2.78	1367	3.64	1498	4.53	1615	5.43	1722	6.33	1821	7.26	1913	8.20	2001	9.15	2083	10.05
4784	5200	1174	2.61	1256	3.05	1399	3.94	1528	4.87	1644	5.81	1750	6.74	1847	7.68	1939	8.66	2026	9.65	2108	10.61
4968	5400	1213	2.88	1292	3.34	1432	4.27	1559	5.22	1673	6.19	1778	7.16	1874	8.13	1965	9.13	2051	10.15	2133	11.18
5152	5600	1251	3.17	1329	3.66	1465	4.61	1589	5.59	1703	6.60	1806	7.61	1902	8.61	1992	9.62	2077	10.67	2158	11.73
5336	5800	1290	3.49	1366	3.99	1498	4.97	1621	5.99	1732	7.03	1835	8.07	1930	9.11	2018	10.14	2103	11.22	2184	12.31

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2392	2600	1946	5.68	2035	6.34	2120	7.02	2201	7.71												
2576	2800	1959	6.02	2044	6.68	2128	7.37	2209	8.09	2287	8.81	2363	9.55								
2760	3000	1972	6.38	2058	7.06	2140	7.77	2218	8.48	2296	9.23	2371	9.99	2444	10.77	2514	11.56				
2944	3200	1986	6.74	2071	7.46	2153	8.18	2231	8.92	2306	9.68	2379	10.44	2452	11.24	2522	12.06	2591	12.89	2657	13.72
3128	3400	2002	7.13	2085	7.86	2167	8.61	2245	9.38	2320	10.16	2392	10.95	2462	11.75	2531	12.56	2599	13.41	2665	14.28
3312	3600	•2020	•7.55	2102	8.30	2181	9.06	2258	9.85	2333	10.66	2406	11.47	2476	12.30	2543	13.13	2609	13.98	2673	14.84
3496	3800	2038	7.98	•2120	•8.76	•2198	•9.54	2273	10.34	2347	11.16	2419	12.01	2489	12.86	2557	13.73	2622	14.60	2686	15.48
3680	4000	2056	8.42	2138	9.23	2216	10.05	•2291	•10.87	2363	11.71	2433	12.55	2502	13.44	2570	14.33	2636	15.23	2699	16.14
3864	4200	2076	8.88	2156	9.71	2234	10.56	2309	11.42	•2381	•12.29	2450	13.16	2517	14.04	2583	14.94	2649	15.87	2713	16.81
4048	4400	2096	9.37	2176	10.23	2252	11.10	2327	11.98	2398	12.88	•2468	•13.78	2535	14.69	2600	15.60	2663	16.52	2726	17.49
4232	4600	2116	9.86	2196	10.76	2272	11.66	2345	12.56	2416	13.48	2485	14.41	•2552	•15.35	•2617	•16.30	2680	17.25	2741	18.21
4416	4800	2138	10.40	2215	11.30	2292	12.23	2365	13.17	2435	14.11	2503	15.07	2570	16.04	2635	17.01	•2698	•17.99	2759	18.98
4600	5000	2162	10.96	2237	11.88	2311	12.82	2384	13.79	2454	14.77	2522	15.74	2588	16.73	2653	17.74	2715	18.75	•2776	•19.77
4784	5200	2186	11.55	2261	12.50	2333	13.45	2404	14.43	2474	15.44	2542	16.45	2607	17.46	2670	18.48	2733	19.53	2794	20.57
4968	5400	2211	12.16	2285	13.14	2357	14.12	2425	15.10	2494	16.13	2561	17.17	2627	18.21	2690	19.27	2751	20.32	2812	21.39
5152	5600	2235	12.79	2309	13.80	2381	14.81	2449	15.83	2515	16.85	2581	17.91	2646	18.99	2709	20.07	2771	21.15	2830	22.25
5336	5800	2260	13.41	2334	14.48	2405	15.52	2473	16.57	2539	17.62	2602	18.68	2666	19.77	2729	20.89	2790	22.01	2850	23.13
5520	6000	2286	14.04	2359	15.17	2429	16.26	2497	17.34	2563	18.43	2626	19.51	2687	20.60	2749	21.73	2810	22.88	2869	24.03
5704	6200	2312	14.68	2384	15.85	2454	17.02	2521	18.13	2587	19.25	2650	20.37	2711	21.49	2770	22.61	2830	23.77	2889	24.95
5888	6400	2337	15.35	2410	16.55	2479	17.76	2546	18.95	2611	20.10	2674	21.25	2735	22.40	2794	23.55	2851	24.71	2909	25.89
6072	6600	2363	16.04	2435	17.27	2504	18.51	2571	19.76	2635	20.97	2698	22.15	2759	23.34	2818	24.52	2875	25.71		
6256	6800	2390	16.75	2461	18.02	2530	19.29	2596	20.57	2660	21.85	2722	23.08	2783	24.30	2842	25.51	2899	26.73		
6440	7000	2417	17.51	2487	18.79	2556	20.09	2622	21.40	2685	22.71	2747	24.03	2807	25.29	2866	26.53	2923	27.78		
6624	7200	2444	18.30	2514	19.58	2582	20.91	2647	22.25	2711	23.60	2772	24.95	2832	26.30	2890	27.58				

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate ■ H - High Pressure ■
The U.S. FAN class range is shown by the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.
For minimum motor size required see "Fan Starting Requirements," page 7.
Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).
Refer to factors on page 9 to convert numbers above to the desired metric units.

Air Handling Wheel

SIZE 15A

MAXIMUM OPERATING SPEEDS

Wheel Diameter	26.13 inches	664 mm
Wheel Circumference	6.84 feet	2.085 m
Inlet Diameter/Area	15 inches dia./1.167 sq. ft.	381 mm/.1084 m ²
Outlet Size/Area	14.31 x 12.88 inches/ 1.230 sq. ft.	363 x 327 mm/ .1143 m ²
Tip Speed	6.84 x RPM ft./minute	2.085 x RPM m/minute

SIZE 15A	-20° to 150°F -29° to 66°C
STD	2194
I SERIES	2531
H SERIES	NA

VOL CFM	OUT VEL	1/2" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1476	1200	430	0.18	•561	•0.34	758	0.70														
1722	1400	452	0.23	578	0.40	770	0.79	925	1.24												
1968	1600	476	0.27	598	0.48	•785	•0.90	936	1.38	1067	1.89	1185	2.45								
2214	1800	500	0.33	619	0.56	801	1.02	948	1.52	1078	2.07	1193	2.65	1300	3.28						
2460	2000	526	0.40	642	0.65	818	1.15	•964	•1.69	1090	2.26	1204	2.88	1307	3.52	1405	4.21				
2706	2200	552	0.48	665	0.74	838	1.29	980	1.87	•1104	•2.48	1215	3.12	1318	3.79	1413	4.49	1504	5.24	1590	6.01
2952	2400	580	0.56	689	0.85	859	1.46	997	2.06	1120	2.71	•1229	•3.38	1330	4.08	1425	4.82	1513	5.57	1597	6.36
3198	2600	608	0.66	714	0.98	881	1.62	1016	2.27	1136	2.95	1245	3.66	1344	4.39	1437	5.15	1525	5.95	1607	6.76
3444	2800	637	0.77	740	1.11	904	1.80	1037	2.50	1154	3.21	1261	3.95	•1359	•4.72	1450	5.51	1537	6.33	1619	7.18
3690	3000	666	0.90	766	1.26	927	1.99	1058	2.75	1172	3.49	1278	4.27	1375	5.07	•1466	•5.90	1550	6.74	1631	7.61
3936	3200	697	1.04	793	1.42	951	2.19	1080	3.00	1193	3.79	1295	4.60	1392	5.44	1481	6.30	•1565	•7.19	1645	8.08
4182	3400	728	1.20	820	1.60	975	2.42	1103	3.26	1214	4.12	1314	4.95	1409	5.83	1498	6.73	1581	7.65	•1660	•8.58
4428	3600	759	1.38	848	1.79	1000	2.66	1126	3.54	1236	4.46	1336	5.34	1426	6.23	1515	7.17	1597	8.12	1676	9.10
4674	3800	791	1.57	877	2.01	1025	2.92	1149	3.83	1258	4.79	1357	5.75	1447	6.68	1532	7.63	1614	8.63	1692	9.63
4920	4000	823	1.78	906	2.24	1051	3.19	1173	4.16	1281	5.15	1378	6.17	1468	7.15	1551	8.13	1632	9.15	1709	10.20
5166	4200	855	2.01	935	2.49	1077	3.49	1198	4.50	1304	5.52	1401	6.59	1489	7.64	1572	8.66	1649	9.70	1726	10.78
5412	4400	887	2.27	965	2.76	1103	3.80	1222	4.86	1327	5.92	1423	7.02	1511	8.15	1593	9.22	1670	10.30	1743	11.39
5658	4600	920	2.54	996	3.06	1130	4.14	1248	5.25	1352	6.35	1446	7.48	1533	8.65	1615	9.80	1691	10.92	1764	12.05
5904	4800	953	2.84	1027	3.38	1158	4.50	1273	5.65	1376	6.80	1469	7.96	1556	9.17	1636	10.39	1713	11.57	1785	12.74
6150	5000	986	3.15	1058	3.73	1186	4.88	1299	6.07	1401	7.28	1493	8.48	1578	9.71	1659	10.98	1734	12.24	1806	13.45
6396	5200	1019	3.50	1090	4.09	1214	5.29	1325	6.52	1426	7.78	1517	9.02	1601	10.28	1681	11.59	1756	12.91	1827	14.20
6642	5400	1053	3.87	1121	4.49	1242	5.72	1352	7.00	1451	8.30	1541	9.59	1625	10.88	1704	12.22	1778	13.59	1849	14.96
6888	5600	1086	4.26	1153	4.91	1271	6.18	1379	7.50	1477	8.84	1566	10.19	1649	11.53	1726	12.88	1801	14.29	1871	15.70
7134	5800	1120	4.69	1185	5.36	1300	6.66	1406	8.03	1502	9.41	1591	10.81	1673	12.19	1750	13.58	1823	15.01	1893	16.47

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3198	2600	1685	7.59	1762	8.47	1836	9.37	1906	10.29												
3444	2800	1697	8.05	1771	8.93	1843	9.85	1913	10.80	1981	11.77	2046	12.76								
3690	3000	1709	8.52	1783	9.44	1853	10.38	1921	11.33	1988	12.33	2054	13.35	2117	14.39	2178	15.44				
3936	3200	1720	9.00	1794	9.96	1865	10.94	1933	11.93	1998	12.93	2061	13.94	2124	15.02	2185	16.11	2244	17.21	2301	18.33
4182	3400	1735	9.53	1806	10.50	1877	11.51	1944	12.54	2010	13.58	2072	14.63	2133	15.70	2192	16.78	2251	17.92	2308	19.07
4428	3600	•1750	•10.09	1821	11.09	1889	12.11	1956	13.16	2021	14.24	2084	15.33	2144	16.44	2203	17.55	2260	18.68	2316	19.82
4674	3800	1766	10.66	•1837	•11.71	•1905	•12.76	1969	13.83	2033	14.92	2096	16.05	2156	17.19	2215	18.34	2272	19.51	2327	20.68
4920	4000	1782	11.26	1852	12.34	1920	13.43	•1985	•14.54	2047	15.65	2107	16.78	2168	17.96	2226	19.15	2283	20.35	2338	21.56
5166	4200	1799	11.88	1868	12.99	1936	14.12	2000	15.27	•2063	•16.42	2123	17.59	2181	18.76	2238	19.97	2295	21.21	2350	22.46
5412	4400	1816	12.53	1885	13.68	1951	14.84	2016	16.02	2078	17.22	•2138	•18.42	2196	19.64	2252	20.86	2307	22.09	2362	23.37
5658	4600	1833	13.19	1903	14.39	1969	15.59	2032	16.80	2094	18.03	2153	19.27	•2211	•20.53	•2268	•21.79	2322	23.06	2375	24.34
5904	4800	1853	13.91	1920	15.12	1986	16.36	2049	17.61	2110	18.87	2169	20.15	2227	21.44	2283	22.74	•2337	•24.05	2390	25.37
6150	5000	1874	14.67	1939	15.89	2003	17.15	2066	18.45	2127	19.75	2185	21.06	2242	22.38	2298	23.72	2353	25.07	•2405	•26.43
6396	5200	1895	15.46	1960	16.72	2022	17.99	2083	19.30	2144	20.65	2202	22.00	2259	23.35	2314	24.72	2368	26.11	2421	27.51
6642	5400	1916	16.27	1981	17.58	2042	18.89	2102	20.21	2161	21.57	2220	22.96	2276	24.36	2331	25.77	2384	27.18	2436	28.61
6888	5600	1937	17.11	2002	18.46	2063	19.82	2122	21.18	2179	22.54	2237	23.95	2293	25.39	2348	26.84	2401	28.29	2452	29.75
7134	5800	1959	17.94	2023	19.38	2084	20.78	2143	22.18	2200	23.58	2255	24.99	2310	26.45	2365	27.94	2418	29.43	2469	30.93
7380	6000	1981	18.78	2045	20.31	2106	21.76	2164	23.21	2221	24.66	2276	26.11	2329	27.56	2382	29.06	2435	30.60	2486	32.14
7626	6200	2004	19.65	2067	21.21	2127	22.78	2185	24.27	2242	25.76	2297	27.25	2349	28.75	2401	30.25	2452	31.79	2503	33.37
7872	6400	2026	20.55	2089	22.15	2149	23.77	2207	25.36	2263	26.90	2317	28.43	2370	29.97	2421	31.51	2471	33.06	2520	34.64
8118	6600	2049	21.47	2111	23.12	2171	24.78	2228	26.44	2284	28.07	2338	29.65	2391	31.23	2442	32.81	2492	34.40		
8364	6800	2072	22.43	2134	24.12	2193	25.82	2250	27.52	2306	29.24	2360	30.89	2412	32.52	2463	34.14	2512	35.77		
8610	7000	2095	23.45	2156	25.15	2216	26.89	2273	28.64	2328	30.39	2381	32.16	2433	33.84	2484	35.51				
8856	7200	2119	24.51	2179	26.22	2238	27.99	2295	29.78	2350	31.58	2403	33.38	2454	35.20	2505	36.91				

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate ■ H - High Pressure ■

The U.S. FAN class range is shown by the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.

For minimum motor size required see "Fan Starting Requirements," page 7.

Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).

Refer to factors on page 9 to convert numbers above to the desired metric units.

MAXIMUM OPERATING SPEEDS

SIZE 21A	-20° to 150°F -29° to 66°C
STD	1570
I SERIES	1810
H SERIES	NA

Wheel Diameter	36.50 inches	927 mm
Wheel Circumference	9.56 feet	2.914 m
Inlet Diameter/Area	21 inches dia./2.290 sq. ft.	533 mm/.2127 m ²
Outlet Size/Area	19.81 x 18.13 inches/ 2.410 sq. ft.	503 x 461 mm/ .2239 m ²
Tip Speed	9.56 x RPM ft./minute	2.914 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2410	1000	•291	•0.27	•385	•0.53	529	1.11														
2892	1200	306	0.34	396	0.64	534	1.28	648	2.01												
3374	1400	322	0.43	411	0.76	•544	•1.48	652	2.26	748	3.11										
3856	1600	339	0.53	426	0.90	555	1.69	660	2.54	753	3.45	837	4.42								
4338	1800	358	0.65	441	1.05	568	1.93	•670	•2.85	759	3.81	841	4.85	917	5.93	987	7.04				
4820	2000	377	0.79	458	1.23	582	2.18	681	3.18	•770	•4.22	848	5.29	922	6.44	992	7.63	1056	8.85	1117	10.10
5302	2200	397	0.94	474	1.43	597	2.46	694	3.53	780	4.64	858	5.80	929	6.98	996	8.23	1061	9.52	1122	10.85
5784	2400	417	1.12	492	1.65	612	2.75	709	3.91	791	5.09	•869	•6.32	939	7.58	1004	8.87	1066	10.21	1127	11.61
6266	2600	439	1.34	511	1.90	628	3.07	724	4.31	806	5.58	879	6.87	•950	•8.21	1014	9.58	1074	10.97	1131	12.39
6748	2800	461	1.58	531	2.18	644	3.42	739	4.73	820	6.09	893	7.46	960	8.86	•1025	•10.31	1085	11.77	1141	13.26
7230	3000	484	1.85	550	2.48	661	3.80	754	5.18	835	6.63	907	8.08	973	9.55	1036	11.07	•1095	•12.61	1152	14.18
7712	3200	507	2.16	570	2.82	678	4.21	770	5.67	850	7.18	922	8.73	987	10.28	1047	11.86	1106	13.48	•1162	•15.12
8194	3400	530	2.50	591	3.19	697	4.67	786	6.20	865	7.77	936	9.41	1001	11.05	1061	12.70	1117	14.38	1173	16.10
8676	3600	554	2.88	612	3.61	715	5.17	803	6.76	881	8.41	951	10.11	1016	11.85	1076	13.58	1132	15.33	1184	17.10
9158	3800	577	3.29	634	4.07	734	5.70	819	7.36	897	9.09	966	10.85	1031	12.67	1090	14.50	1146	16.33	1198	18.18
9640	4000	601	3.75	657	4.57	754	6.27	837	8.00	913	9.81	982	11.63	1046	13.52	1105	15.44	1161	17.37	1213	19.30
10122	4200	626	4.25	679	5.12	773	6.88	856	8.70	930	10.57	998	12.48	1061	14.41	1120	16.42	1175	18.44	1227	20.45
10604	4400	650	4.80	702	5.71	793	7.53	875	9.44	947	11.36	1014	13.36	1077	15.37	1135	17.43	1190	19.53	1242	21.65
11086	4600	675	5.40	725	6.34	813	8.23	894	10.23	964	12.22	1031	14.29	1093	16.38	1150	18.48	1205	20.67	1256	22.86
11568	4800	700	6.05	748	7.03	833	8.97	913	11.07	983	13.14	1048	15.26	1109	17.43	1166	19.62	1220	21.84	1271	24.12
12050	5000	725	6.75	772	7.77	855	9.80	932	11.95	1001	14.11	1064	16.27	1125	18.54	1182	20.80	1235	23.08	1286	25.43
12532	5200	750	7.51	795	8.56	877	10.68	952	12.88	1020	15.14	1083	17.38	1142	19.69	1198	22.04	1251	24.40	1301	26.78
13014	5400	776	8.32	819	9.41	899	11.61	972	13.87	1039	16.21	1101	18.54	1159	20.89	1215	23.33	1267	25.77	1317	28.22
13496	5600	801	9.19	843	10.32	921	12.61	992	14.91	1059	17.34	1120	19.76	1176	22.16	1231	24.67	1284	27.19	1333	29.72

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5784	2400	1184	13.04	1239	14.49	1291	15.96	1340	17.46												
6266	2600	1189	13.89	1243	15.42	1295	16.97	1345	18.54	1393	20.13	1439	21.75								
6748	2800	1195	14.78	1248	16.36	1300	17.99	1350	19.63	1398	21.30	1444	22.99	1489	24.70	1532	26.43	1574	28.18		
7230	3000	1205	15.77	1256	17.37	1305	19.02	1355	20.74	1403	22.49	1449	24.25	1493	26.04	1536	27.84	1578	29.66	1619	31.50
7712	3200	•1216	•16.79	1266	18.47	1314	20.18	1361	21.90	1407	23.69	1453	25.53	1498	27.39	1541	29.26	1583	31.16	1624	33.07
8194	3400	1226	17.84	•1277	•19.60	1325	21.38	1371	23.18	1416	25.00	1458	26.83	1503	28.75	1546	30.71	1588	32.68	1628	34.67
8676	3600	1237	18.92	1287	20.76	•1335	•22.62	1381	24.50	1426	26.39	1469	28.30	1510	30.22	1551	32.16	1592	34.21	1633	36.27
9158	3800	1248	20.05	1298	21.96	1346	23.90	•1392	•25.85	•1436	•27.82	1479	29.80	1520	31.80	1561	33.81	1599	35.84	1638	37.90
9640	4000	1262	21.24	1309	23.20	1356	25.20	1402	27.24	1447	29.28	•1489	•31.34	1531	33.42	1571	35.51	1610	37.61	1647	39.73
10122	4200	1276	22.47	1323	24.51	1368	26.57	1413	28.66	1457	30.78	1500	32.92	•1541	•35.07	1581	37.24	1620	39.42	1658	41.61
10604	4400	1291	23.75	1338	25.87	1382	28.00	1425	30.15	1468	32.32	1510	34.54	1552	36.77	•1592	•39.01	•1630	•41.27	1668	43.54
11086	4600	1305	25.08	1352	27.27	1397	29.48	1440	31.70	1481	33.94	1521	36.20	1562	38.51	1602	40.83	1641	43.16	•1678	•45.50
11568	4800	1320	26.42	1367	28.73	1411	31.01	1454	33.31	1495	35.62	1535	37.95	1573	40.29	1613	42.68	1651	45.09	1689	47.51
12050	5000	1335	27.80	1381	30.19	1426	32.59	1468	34.97	1509	37.36	1549	39.76	1587	42.17	1625	44.60	1662	47.07	1699	49.57
12532	5200	1350	29.23	1396	31.70	1440	34.19	1483	36.68	1524	39.14	1563	41.62	1601	44.11	1639	46.61	1675	49.13	1710	51.66
13014	5400	1365	30.71	1411	33.26	1455	35.83	1497	38.40	1538	40.98	1578	43.54	1616	46.10	1653	48.68	1689	51.27	1724	53.88
13496	5600	1380	32.26	1426	34.87	1470	37.52	1512	40.17	1553	42.84	1592	45.51	1630	48.15	1667	50.81	1703	53.47	1738	56.15
13978	5800	1396	33.90	1441	36.54	1485	39.26	1527	41.99	1567	44.74	1606	47.50	1644	50.26	1681	52.99	1717	55.73	1752	58.49
14460	6000	1412	35.60	1457	38.31	1500	41.05	1541	43.87	1582	46.69	1621	49.53	1659	52.38	1696	55.23	1731	58.05	1766	60.88
14942	6200	1428	37.36	1473	40.15	1515	42.95	1556	45.80	1597	48.70	1636	51.62	1674	54.54	1710	57.48	1746	60.43	1780	63.34
15424	6400	1445	39.18	1489	42.05	1531	44.93	1572	47.81	1612	50.77	1651	53.76	1688	56.77	1725	59.78	1760	62.81	1795	65.84
15906	6600	1461	41.06	1505	44.02	1547	46.98	1588	49.94	1627	52.91	1665	55.97	1703	59.05	1739	62.14	1775	65.25	1809	68.36
16388	6800	1478	43.00	1521	46.04	1563	49.08	1604	52.13	1643	55.18	1680	58.24	1718	61.40	1754	64.57	1789	67.75		
16870	7000	1494	45.00	1538	48.13	1579	51.26	1620	54.38	1659	57.51	1696	60.65	1733	63.80	1769	67.05	1804	70.31		

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate □ H - High Pressure □
The U.S. FAN class range is shown by the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.
For minimum motor size required see "Fan Starting Requirements," page 7.
Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).
Refer to factors on page 9 to convert numbers above to the desired metric units.

MAXIMUM OPERATING SPEEDS

SIZE 33A	-20° to 150°F -29° to 66°C
STD	998
I SERIES	1145
H SERIES	NA

Wheel Diameter	57.50 inches	1461 mm
Wheel Circumference	15.05 feet	4.587 m
Inlet Diameter/Area	33 inches dia./5.72 sq. ft.	838 mm/5314 m ²
Outlet Size/Area	31.06 x 28.50 inches/ 5.980 sq. ft.	789 x 724 mm/ .5556 m ²
Tip Speed	15.05 x RPM ft./minute	4.587 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5980	1000	•185	•0.68	•245	•1.31	336	2.76														
7176	1200	194	0.85	252	1.58	339	3.18	411	4.98												
8372	1400	205	1.06	261	1.89	•345	•3.67	414	5.61	475	7.72										
9568	1600	215	1.31	270	2.24	352	4.20	419	6.30	478	8.57	531	10.97								
10764	1800	227	1.61	280	2.62	360	4.78	•426	•7.07	482	9.46	534	12.02	582	14.70	626	17.47				
11960	2000	240	1.95	290	3.05	370	5.42	432	7.88	•489	•10.47	538	13.13	585	15.97	629	18.93	671	21.95	709	25.05
13156	2200	252	2.34	301	3.54	379	6.09	441	8.76	495	11.52	545	14.38	589	17.32	633	20.41	674	23.63	712	26.92
14352	2400	265	2.79	313	4.09	389	6.82	450	9.70	502	12.63	•551	•15.69	596	18.82	637	22.01	677	25.34	715	28.81
15548	2600	279	3.32	325	4.72	399	7.62	459	10.70	511	13.84	558	17.05	•603	•20.37	644	23.76	682	27.21	718	30.74
16744	2800	293	3.92	337	5.40	409	8.49	469	11.74	521	15.11	567	18.50	610	21.99	•651	•25.58	689	29.22	724	32.91
17940	3000	307	4.60	349	6.16	420	9.44	478	12.86	530	16.44	576	20.05	617	23.70	657	27.46	•695	•31.29	731	35.18
19136	3200	322	5.36	362	7.00	430	10.46	489	14.08	540	17.83	585	21.67	627	25.52	665	29.42	702	33.44	•738	•37.52
20332	3400	336	6.20	375	7.91	442	11.59	499	15.39	549	19.29	594	23.34	636	27.42	674	31.52	709	35.67	745	39.94
21528	3600	351	7.13	389	8.96	454	12.82	510	16.78	559	20.86	604	25.09	645	29.40	683	33.70	718	38.05	752	42.44
22724	3800	366	8.16	403	10.10	466	14.14	520	18.25	569	22.55	613	26.92	654	31.43	692	35.99	727	40.52	761	45.11
23920	4000	382	9.30	417	11.34	478	15.55	531	19.86	580	24.33	623	28.87	664	33.55	701	38.32	737	43.10	770	47.88
25116	4200	397	10.55	431	12.69	491	17.07	543	21.59	590	26.21	634	30.96	673	35.76	711	40.73	746	45.75	779	50.75
26312	4400	413	11.92	446	14.16	503	18.69	555	23.43	601	28.19	644	33.15	683	38.13	720	43.25	755	48.46	788	53.72
27508	4600	429	13.40	460	15.74	516	20.41	567	25.39	612	30.32	654	35.45	694	40.64	730	45.86	765	51.28	798	56.73
28704	4800	444	15.01	475	17.44	529	22.26	579	27.46	624	32.61	665	37.86	704	43.26	740	48.67	774	54.20	807	59.86
29900	5000	460	16.75	490	19.27	543	24.30	592	29.65	636	35.02	676	40.38	714	45.99	750	51.62	784	57.26	816	63.09
31096	5200	476	18.62	505	21.23	557	26.49	604	31.96	648	37.55	687	43.11	725	48.85	761	54.69	794	60.53	826	66.44
32292	5400	492	20.63	520	23.34	571	28.81	617	34.41	660	40.22	699	45.99	735	51.83	771	57.88	804	63.94	836	70.01
33488	5600	508	22.79	535	25.60	585	31.28	629	36.98	672	43.03	711	49.02	747	54.98	782	61.20	815	67.47	846	73.75

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14352	2400	752	32.35	786	35.95	819	39.61	851	43.33												
15548	2600	755	34.47	789	38.26	822	42.10	854	46.00	884	49.96	914	53.97								
16744	2800	758	36.66	792	40.59	825	44.63	857	48.72	887	52.86	917	57.05	945	61.30	972	65.59	999	69.92		
17940	3000	765	39.12	797	43.11	828	47.19	860	51.47	890	55.80	920	60.18	948	64.61	975	69.08	1002	73.60	1028	78.17
19136	3200	•772	•41.66	804	45.84	834	50.06	864	54.34	893	58.77	923	63.34	951	67.96	978	72.62	1005	77.32	1031	82.07
20332	3400	778	44.27	•810	•48.64	841	53.06	870	57.52	899	62.02	926	66.57	954	71.35	981	76.19	1008	81.09	1034	86.02
21528	3600	785	46.95	817	51.52	•848	•56.13	877	60.79	905	65.48	932	70.21	959	74.98	984	79.81	1011	84.89	1037	90.01
22724	3800	792	49.74	824	54.49	854	59.29	•884	•64.14	•912	•69.02	939	73.95	965	78.90	991	83.90	1015	88.93	1040	94.05
23920	4000	801	52.70	831	57.57	861	62.54	890	67.58	918	72.66	•945	•77.77	972	82.92	997	88.10	1022	93.32	1046	98.58
25116	4200	810	55.76	840	60.82	869	65.92	897	71.11	925	76.38	952	81.69	•978	•87.03	1004	92.41	1028	97.81	1052	103.25
26312	4400	819	58.94	849	64.19	878	69.48	905	74.80	932	80.20	959	85.70	985	91.24	•1010	•96.80	•1035	•102.40	1059	108.03
27508	4600	829	62.23	858	67.67	887	73.15	914	78.66	940	84.21	966	89.82	992	95.54	•1017	101.30	1042	107.09	•1065	•112.91
28704	4800	838	65.55	867	71.28	896	76.95	923	82.65	949	88.39	974	94.16	999	99.97	1024	105.90	1048	111.89	1072	117.90
29900	5000	847	68.98	877	74.92	905	80.86	932	86.76	958	92.69	983	98.65	1008	104.64	1031	110.67	1055	116.78	1079	122.99
31096	5200	857	72.54	886	78.66	914	84.83	941	91.00	967	97.12	992	103.27	1017	109.45	1040	115.66	1063	121.91	1085	128.19
32292	5400	866	76.21	895	82.53	923	88.89	950	95.29	976	101.69	1001	108.03	1026	114.40	1049	120.80	1072	127.22	1094	133.68
33488	5600	876	80.04	905	86.53	933	93.09	960	99.67	986	106.30	1011	112.92	1035	119.48	1058	126.07	1081	132.68	1103	139.33
34684	5800	886	84.12	915	90.65	942	97.41	969	104.19	995	111.01	1020	117.86	1044	124.71	1067	131.49	1090	138.29	1112	145.12
35880	6000	896	88.34	925	95.06	952	101.86	978	108.85	1004	115.85	1029	122.89	1053	129.96	1076	137.05	1099	144.04	1121	151.06
37076	6200	907	92.70	935	99.62	962	106.56	988	113.64	1014	120.84	1038	128.07	1062	135.34	1086	142.63	1108	149.94	1130	157.15
38272	6400	917	97.21	945	104.34	972	111.48	998	118.63	1023	125.97	1048	133.40	1072	140.85	1095	148.33	1117	155.84	1139	163.38
39468	6600	927	101.87	955	109.21	982	116.55	1008	123.91	1033	131.27	1057	138.87	1081	146.52	1104	154.19	1127	161.89		
40664	6800	938	106.69	966	114.23	992	121.78	1018	129.34	1043	136.91	1067	144.49	1090	152.34	1113	160.20	1136	168.09		
41860	7000	948	111.66	976	119.42	1003	127.18	1028	134.94	1053	142.70	1077	150.48	1100	158.31	1123	166.37	1145	174.45		

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate □ H - High Pressure □
The U.S. FAN class range is shown by the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.
For minimum motor size required see "Fan Starting Requirements," page 7.
Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).
Refer to factors on page 9 to convert numbers above to the desired metric units.

Air Handling Wheel

SIZE 37A

MAXIMUM OPERATING SPEEDS

Wheel Diameter	64.38 inches	1635 mm
Wheel Circumference	16.85 feet	5.136 m
Inlet Diameter/Area	37 inches dia./7.22 sq. ft.	940 mm/.6708 m ²
Outlet Size/Area	34.63 x 32.00 inches/ 7.49 sq. ft.	880 x 813 mm/ .6958 m ²
Tip Speed	16.85 x RPM ft./minute	5.136 x RPM m/minute

SIZE 37A	-20° to 150°F -29° to 66°C
STD	890
I SERIES	1023
H SERIES	NA

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7490	1000	●165	●0.85	●218	●1.64	300	3.45														
8988	1200	174	1.07	225	1.98	303	3.98	367	6.24												
10486	1400	183	1.33	233	2.37	●308	●4.60	370	7.03	424	9.67										
11984	1600	192	1.64	241	2.80	314	5.26	374	7.89	427	10.73	474	13.74								
13482	1800	203	2.01	250	3.28	322	5.99	●380	●8.85	430	11.85	477	15.06	520	18.42	559	21.88				
14980	2000	214	2.44	259	3.82	330	6.79	386	9.87	●436	●13.11	481	16.45	523	20.01	562	23.71	599	27.50	633	31.38
16478	2200	225	2.93	269	4.43	338	7.63	394	10.97	442	14.43	487	18.02	526	21.69	565	25.57	602	29.60	636	33.72
17976	2400	236	3.49	279	5.12	347	8.54	402	12.15	449	15.82	●493	●19.65	532	23.57	569	27.57	604	31.74	639	36.09
19474	2600	249	4.16	290	5.90	356	9.54	410	13.40	457	17.33	499	21.35	●538	●25.52	575	29.76	609	34.08	642	38.50
20972	2800	261	4.91	301	6.76	365	10.64	419	14.71	465	18.92	506	23.17	544	27.54	●581	●32.03	615	36.60	647	41.23
22470	3000	274	5.76	312	7.71	375	11.82	427	16.10	473	20.59	514	25.11	551	29.68	587	34.39	●621	●39.19	653	44.07
23968	3200	287	6.70	323	8.76	384	13.09	436	17.63	482	22.32	522	27.14	560	31.96	594	36.85	627	41.88	●659	●47.00
25466	3400	300	7.76	335	9.90	395	14.52	446	19.27	490	24.15	531	29.23	568	34.34	602	39.47	633	44.67	665	50.02
26964	3600	314	8.93	347	11.21	405	16.05	455	21.01	499	26.12	539	31.41	576	36.82	610	42.21	642	47.65	671	53.15
28462	3800	327	10.22	359	12.64	416	17.70	464	22.85	508	28.24	548	33.70	584	39.36	618	45.07	650	50.75	679	56.49
29960	4000	341	11.64	372	14.19	427	19.47	474	24.86	518	30.47	557	36.14	593	42.01	626	47.98	658	53.97	687	59.96
31458	4200	355	13.20	385	15.88	438	21.36	485	27.03	527	32.82	566	38.76	601	44.79	635	51.01	666	57.29	696	63.56
32956	4400	369	14.91	398	17.71	449	23.39	496	29.33	537	35.30	575	41.51	610	47.74	643	54.15	675	60.68	704	67.28
34454	4600	383	16.76	411	19.69	461	25.55	506	31.78	546	37.95	584	44.38	619	50.88	652	57.43	683	64.21	712	71.05
35952	4800	397	18.78	424	21.82	472	27.85	517	34.37	557	40.82	594	47.40	629	54.16	661	60.94	691	67.87	721	74.95
37450	5000	411	20.95	437	24.11	485	30.41	528	37.11	568	43.83	603	50.55	638	57.59	670	64.63	700	71.70	729	79.01
38948	5200	425	23.29	451	26.57	497	33.15	539	40.01	578	47.01	614	53.97	647	61.16	679	68.47	709	75.80	738	83.20
40446	5400	439	25.81	464	29.20	509	36.05	551	43.06	589	50.35	624	57.58	657	64.89	689	72.46	718	80.05	746	87.66
41944	5600	454	28.51	478	32.02	522	39.14	562	46.29	600	53.86	635	61.36	667	68.83	698	76.62	728	84.47	756	92.34

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17976	2400	671	40.53	702	45.04	732	49.62	760	54.28												
19474	2600	674	43.17	705	47.92	734	52.74	763	57.63	790	62.59	816	67.61								
20972	2800	677	45.92	708	50.85	737	55.91	765	61.03	792	66.22	819	71.47	844	76.79	868	82.16	892	87.60		
22470	3000	683	49.00	712	54.00	740	59.11	768	64.47	795	69.90	821	75.39	847	80.93	871	86.54	895	92.20	918	97.92
23968	3200	●689	●52.17	718	57.41	745	62.71	771	68.06	798	73.63	824	79.35	849	85.13	874	90.97	898	96.86	921	102.81
25466	3400	695	55.44	●724	●60.92	751	66.46	777	72.04	803	77.69	827	83.38	852	89.38	876	95.45	900	101.58	923	107.76
26964	3600	701	58.81	730	64.53	●757	●70.31	783	76.14	808	82.01	833	87.94	856	93.92	879	99.98	903	106.34	926	112.76
28462	3800	707	62.30	736	68.25	763	74.27	●789	●80.34	●814	●86.45	839	92.62	862	98.83	885	105.09	907	111.40	929	117.81
29960	4000	715	66.00	742	72.10	769	78.33	795	84.64	820	91.00	●844	●97.41	868	103.86	891	110.35	913	116.89	934	123.47
31458	4200	724	69.84	750	76.17	776	82.56	801	89.07	826	95.67	850	102.32	●874	●109.01	896	115.74	918	122.51	940	129.33
32956	4400	732	73.81	758	80.39	784	87.01	808	93.68	832	100.45	856	107.34	880	114.27	●902	●121.25	●924	●128.26	946	135.31
34454	4600	740	77.93	766	84.75	792	91.61	816	98.52	840	105.47	862	112.49	886	119.67	908	126.88	930	134.13	●952	●141.42
35952	4800	748	82.09	775	89.26	800	96.36	824	103.51	848	110.70	870	117.93	892	125.20	914	132.64	936	140.13	957	147.66
37450	5000	757	86.39	783	93.82	808	101.27	832	108.65	856	116.08	878	123.55	900	131.06	921	138.61	942	146.27	963	154.04
38948	5200	765	90.83	791	98.51	816	106.23	840	113.96	864	121.63	886	129.33	908	137.07	929	144.86	949	152.68	969	160.55
40446	5400	774	95.43	800	103.35	825	111.32	849	119.33	872	127.34	894	135.28	916	143.26	937	151.28	957	159.33	977	167.42
41944	5600	782	100.22	808	108.35	833	116.57	857	124.87	880	133.12	902	141.41	924	149.63	945	157.88	965	166.17	985	174.49
43442	5800	791	105.33	817	113.52	842	121.98	865	130.47	888	139.01	911	147.59	932	156.17	953	164.66	973	173.18	993	181.74
44940	6000	800	110.61	826	119.02	850	127.56	874	136.30	897	145.08	919	153.90	940	162.75	961	171.62	981	180.38	1001	189.17
46438	6200	810	116.07	835	124.74	859	133.43	882	142.30	905	151.32	927	160.38	949	169.48	969	178.61	990	187.77	1009	196.80
47936	6400	819	121.71	844	130.64	868	139.58	891	148.54	914	157.74	936	167.05	957	176.39	978	185.76	998	195.16	1017	204.60
49434	6600	828	127.55	853	136.74	877	145.94	900	155.14	922	164.37	944	173.90	965	183.48	986	193.09	1006	202.73		
50932	6800	837	133.57	862	143.03	886	152.48	909	161.95	931	171.42	953	180.94	974	190.76	994	200.61	1014	210.50		
52430	7000	847	139.79	872	149.51	●895	●159.23	918	168.95	940	178.68	961	188.42	982	198.23	1003	208.33	1023	218.46		

● Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate ■ H - High Pressure ■

The U.S. FAN class range is shown by the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7. For minimum motor size required see "Fan Starting Requirements," page 7.

Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).

Refer to factors on page 9 to convert numbers above to the desired metric units.

MAXIMUM OPERATING SPEEDS

SIZE 41A	-20° to 150°F -29° to 66°C
STD	804
I SERIES	924
H SERIES	NA

Wheel Diameter	71.25 inches	1810 mm
Wheel Circumference	18.65 feet	5.685 m
Inlet Diameter/Area	41 inches dia./8.80 sq. ft.	1041 mm/.8175 m ²
Outlet Size/Area	35.31 x 38.63 inches/ 9.19 sq. ft.	897 x 981 mm/ .8538 m ²
Tip Speed	18.65 x RPM ft./minute	5.685 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9198	1000	•149	•1.04	•197	•2.02	271	4.24														
11038	1200	157	1.31	203	2.44	274	4.89	332	7.66												
12877	1400	165	1.64	211	2.91	•279	•5.64	334	8.63	383	11.87										
14717	1600	174	2.02	218	3.44	284	6.46	338	9.69	386	13.17	429	16.86	467	20.69						
16556	1800	184	2.47	226	4.03	291	7.36	•344	•10.87	389	14.55	431	18.49	470	22.61	506	26.85				
18396	2000	193	3.00	235	4.70	298	8.34	349	12.12	•394	•16.10	434	20.20	472	24.56	508	29.10	541	33.75	572	38.52
20236	2200	204	3.61	243	5.45	306	9.38	356	13.47	400	17.72	440	22.12	476	26.64	510	31.39	544	36.33	575	41.38
22075	2400	214	4.30	252	6.30	314	10.49	363	14.93	406	19.43	•445	•24.13	481	28.94	514	33.85	546	38.96	577	44.30
23915	2600	225	5.12	262	7.26	322	11.73	371	16.46	413	21.29	451	26.22	•487	•31.34	520	36.55	551	41.85	580	47.26
25754	2800	237	6.05	272	8.32	330	13.08	379	18.07	420	23.25	457	28.47	492	33.83	•525	•39.34	556	44.94	585	50.62
27594	3000	248	7.09	282	9.49	339	14.53	386	19.79	428	25.30	465	30.84	498	36.46	531	42.23	•561	•48.13	590	54.11
29434	3200	260	8.26	292	10.78	348	16.10	395	21.67	436	27.43	472	33.34	506	39.26	537	45.26	567	51.44	•596	•57.72
31273	3400	272	9.56	303	12.19	357	17.86	403	23.69	443	29.68	480	35.92	513	42.19	544	48.49	573	54.87	601	61.43
33113	3600	284	11.00	314	13.80	367	19.75	411	25.83	451	32.11	488	38.60	521	45.24	551	51.86	580	58.54	607	65.29
34952	3800	296	12.59	325	15.56	376	21.78	420	28.11	460	34.71	495	41.42	528	48.36	559	55.37	587	62.35	614	69.40
36792	4000	308	14.35	337	17.48	386	23.96	429	30.57	468	37.46	503	44.43	536	51.63	566	58.96	595	66.32	621	73.66
38632	4200	321	16.28	348	19.57	396	26.29	439	33.25	477	40.36	512	47.65	544	55.04	574	62.68	602	70.39	629	78.09
40471	4400	334	18.38	360	21.82	407	28.79	448	36.09	485	43.40	520	51.03	552	58.68	582	66.55	610	74.57	636	82.66
42311	4600	346	20.67	372	24.26	417	31.45	458	39.10	494	46.68	528	54.57	560	62.55	589	70.58	617	78.91	644	87.30
44150	4800	359	23.15	384	26.89	427	34.29	468	42.29	504	50.21	537	58.28	568	66.59	598	74.92	625	83.41	651	92.11
45990	5000	372	25.83	396	29.71	438	37.45	478	45.67	513	53.93	546	62.17	577	70.80	606	79.45	633	88.13	659	97.09
47830	5200	385	28.72	408	32.74	450	40.82	488	49.24	523	57.84	555	66.38	585	75.20	614	84.18	641	93.18	667	102.26
49669	5400	398	31.83	420	35.99	461	44.41	498	53.01	533	61.95	564	70.83	594	79.79	623	89.10	650	98.42	675	107.76
51509	5600	411	35.16	432	39.47	472	48.21	508	56.98	543	66.27	574	75.49	603	84.67	631	94.21	658	103.86	683	113.51

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22075	2400	607	49.74	634	55.28	661	60.90	687	66.61												
23915	2600	609	53.00	637	58.82	664	64.73	689	70.73	714	76.81	737	82.97								
25754	2800	612	56.39	639	62.42	666	68.62	692	74.91	716	81.28	740	87.72	763	94.24	785	100.84	806	107.50		
27594	3000	617	60.17	643	66.30	668	72.56	694	79.14	718	85.80	742	92.53	765	99.34	787	106.21	809	113.16	829	120.18
29434	3200	•623	•64.07	649	70.50	673	77.00	697	83.56	721	90.38	745	97.40	767	104.49	790	111.65	811	118.89	832	126.19
31273	3400	628	68.09	•654	•74.81	679	81.61	702	88.46	725	95.39	747	102.37	770	109.71	792	117.16	813	124.68	834	132.26
33113	3600	634	72.23	659	79.25	•684	•86.34	708	93.49	731	100.71	753	107.98	774	115.32	794	122.73	816	130.53	837	138.40
34952	3800	639	76.52	665	83.82	690	91.21	•713	•98.66	•736	•106.17	758	113.73	779	121.36	800	129.04	819	136.77	839	144.61
36792	4000	647	81.08	671	88.56	695	96.20	719	103.95	741	111.76	•763	•119.62	784	127.54	805	135.51	825	143.53	844	151.61
38632	4200	654	85.80	678	93.57	701	101.41	724	109.39	747	117.50	769	125.66	•790	•133.87	•810	•142.13	830	150.44	849	158.81
40471	4400	661	90.69	685	98.76	708	106.89	730	115.08	752	123.38	774	131.83	795	140.34	815	148.90	•835	•157.51	855	166.16
42311	4600	669	95.76	693	104.12	716	112.55	738	121.02	759	129.56	779	138.16	800	146.97	821	155.83	841	164.73	•860	•173.67
44150	4800	676	100.87	700	109.67	723	118.39	745	127.16	766	135.99	786	144.86	806	153.79	826	162.91	846	172.11	865	181.35
45990	5000	684	106.15	708	115.28	731	124.43	752	133.49	773	142.61	794	151.78	813	160.99	832	170.26	851	179.65	871	189.19
47830	5200	692	111.62	715	121.05	738	130.53	760	140.02	781	149.43	801	158.89	821	168.40	840	177.95	858	187.55	876	197.19
49669	5400	699	117.28	723	127.01	746	136.79	767	146.62	788	156.46	808	166.22	828	176.01	847	185.85	865	195.73	883	205.66
51509	5600	707	123.20	731	133.16	753	143.24	775	153.37	796	163.56	816	173.75	835	183.84	854	193.97	873	204.14	890	214.35
53348	5800	715	129.48	738	139.52	761	149.90	782	160.33	803	170.81	823	181.34	843	191.89	862	202.31	880	212.77	898	223.27
55188	6000	724	135.98	746	146.31	768	156.77	790	167.50	811	178.28	831	189.10	850	199.97	869	210.88	887	221.63	905	232.42
57028	6200	732	142.70	755	153.35	776	164.01	798	174.88	818	185.96	838	197.08	858	208.25	876	219.46	895	230.71	912	241.81
58867	6400	740	149.65	763	160.61	785	171.59	806	182.59	826	193.86	846	205.29	865	216.75	884	228.25	902	239.79	920	251.38
60707	6600	749	156.83	771	168.12	793	179.41	814	190.72	834	202.04	854	213.71	873	225.48	891	237.27	910	249.11		
62546	6800	757	164.25	780	175.86	801	187.47	822	199.09	842	210.72	861	222.38	880	234.44	899	246.53	917	258.66		
64386	7000	766	171.91	788	183.85	810	195.78	830	207.71	850	219.66	869	231.61	888	243.64	907	256.03				

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate □ H - High Pressure □
The U.S. FAN class range is shown by the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.
For minimum motor size required see "Fan Starting Requirements," page 7.
Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.
All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).
Refer to factors on page 9 to convert numbers above to the desired metric units.

Air Handling Wheel

SIZE 45A

MAXIMUM OPERATING SPEEDS

Wheel Diameter	78.25 inches	1988 mm
Wheel Circumference	20.49 feet	6.245 m
Inlet Diameter/Area	45 inches dia./10.73 sq. ft.	1143 mm/.9968 m ²
Outlet Size/Area	38.75 x 42.31 inches/ 11.07 sq. ft.	984 x 1075 mm/ 1.028 m ²
Tip Speed	20.49 x RPM ft./minute	6.245 x RPM m/minute

SIZE 45A	-20° to 150°F -29° to 66°C
STD	732
I SERIES	842
H SERIES	NA

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11070	1000	•136	•1.26	•180	•2.43	247	5.10														
13284	1200	143	1.58	185	2.93	249	5.89	302	9.22												
15498	1400	150	1.97	192	3.51	•254	•6.79	304	10.39	349	14.30										
17712	1600	158	2.42	199	4.14	259	7.78	308	11.67	351	15.86	390	20.30								
19926	1800	167	2.97	206	4.84	265	8.85	•313	•13.09	354	17.51	392	22.26	428	27.22	460	32.34				
22140	2000	176	3.61	213	5.65	271	10.03	318	14.58	•359	•19.38	395	24.32	430	29.57	463	35.04	493	40.64	521	46.38
24354	2200	185	4.33	221	6.55	278	11.28	324	16.21	364	21.33	400	26.63	433	32.06	465	37.79	495	43.75	523	49.83
26568	2400	195	5.16	230	7.57	285	12.62	331	17.96	369	23.38	•405	•29.04	438	34.84	468	40.75	497	46.90	525	53.34
28782	2600	205	6.14	238	8.73	293	14.10	338	19.80	376	25.61	410	31.56	•443	•37.72	473	43.99	501	50.37	528	56.90
30996	2800	215	7.26	247	10.00	300	15.72	344	21.74	383	27.97	416	34.25	448	40.71	•478	•47.35	506	54.09	532	60.93
33210	3000	226	8.51	257	11.40	308	17.47	352	23.80	389	30.43	423	37.11	454	43.87	483	50.82	•511	•57.93	537	65.13
35424	3200	236	9.91	266	12.95	316	19.35	359	26.06	396	33.00	430	40.11	460	47.23	488	54.46	516	61.90	•542	•69.46
37638	3400	247	11.47	275	14.64	325	21.46	367	28.48	403	35.70	437	43.21	467	50.75	495	58.34	521	66.03	547	73.93
39852	3600	258	13.20	285	16.57	334	23.72	374	31.05	411	38.61	444	46.43	474	54.42	502	62.39	528	70.43	552	78.56
42066	3800	269	15.10	296	18.68	342	26.16	382	33.78	418	41.74	451	49.82	481	58.17	509	66.61	534	75.01	559	83.50
44280	4000	280	17.21	306	20.98	351	28.78	390	36.74	426	45.03	458	53.43	488	62.10	515	70.92	541	79.77	566	88.62
46494	4200	292	19.52	317	23.48	361	31.58	399	39.95	434	48.51	465	57.29	495	66.20	522	75.39	548	84.68	572	93.94
48708	4400	303	22.04	327	26.19	370	34.57	408	43.36	441	52.17	473	61.35	502	70.56	529	80.04	555	89.69	579	99.43
50922	4600	315	24.79	338	29.11	379	37.77	417	46.98	450	56.10	481	65.60	510	75.21	536	84.88	562	94.91	586	105.01
53136	4800	326	27.76	349	32.26	389	41.18	426	50.81	458	60.34	489	70.06	517	80.06	544	90.08	569	100.32	593	110.79
55350	5000	338	30.97	360	35.65	399	44.96	435	54.86	467	64.80	496	74.73	525	85.12	551	95.53	576	105.98	600	116.78
57564	5200	350	34.44	371	39.28	409	49.00	444	59.14	476	69.49	505	79.77	533	90.40	559	101.21	583	112.04	607	122.98
59778	5400	362	38.16	382	43.17	419	53.30	453	63.66	485	74.43	513	85.11	540	95.91	566	107.11	591	118.33	614	129.57
61992	5600	373	42.16	393	47.34	430	57.86	462	68.43	494	79.61	522	90.70	548	101.75	574	113.25	599	124.86	622	136.49

VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
26568	2400	552	59.89	578	66.56	602	73.34	625	80.22												
28782	2600	554	63.81	580	70.82	604	77.95	627	85.17	650	92.50	671	99.92								
30996	2800	557	67.87	582	75.15	606	82.62	630	90.20	652	97.87	673	105.63	694	113.48	714	121.43	734	129.46		
33210	3000	562	72.42	586	79.81	609	87.37	632	95.29	654	103.30	676	111.41	696	119.61	717	127.90	736	136.27	755	144.72
35424	3200	•567	•77.11	591	84.85	613	92.68	635	100.59	656	108.81	678	117.27	699	125.81	719	134.44	738	143.15	757	151.95
37638	3400	572	81.94	•595	•90.04	618	98.22	639	106.48	660	114.82	680	123.23	701	132.09	721	141.06	741	150.12	759	159.25
39852	3600	577	86.92	600	95.38	•623	•103.91	644	112.53	665	121.21	685	129.98	704	138.81	723	147.76	743	157.16	762	166.64
42066	3800	582	92.07	605	100.87	628	109.76	•649	•118.73	•670	•127.78	690	136.89	709	146.07	728	155.32	746	164.64	764	174.11
44280	4000	589	97.55	611	106.56	633	115.77	654	125.10	675	134.50	•695	•143.97	714	153.50	733	163.10	751	172.76	768	182.49
46494	4200	595	103.22	617	112.58	638	122.02	659	131.64	680	141.40	700	151.22	•719	•161.11	737	171.06	756	181.07	773	191.14
48708	4400	602	109.10	624	118.81	645	128.60	665	138.46	685	148.47	704	158.65	724	168.90	•742	•179.20	•760	•189.56	778	199.98
50922	4600	609	115.19	631	125.26	651	135.40	671	145.61	691	155.89	709	166.26	729	176.86	747	187.53	765	198.24	•783	•209.02
53136	4800	616	121.33	637	131.93	658	142.42	678	152.98	697	163.61	716	174.30	734	185.05	752	196.04	770	207.11	788	218.24
55350	5000	622	127.68	644	138.67	665	149.68	685	160.59	704	171.57	722	182.60	740	193.70	758	204.86	775	216.18	793	227.67
57564	5200	629	134.26	651	145.60	672	157.02	691	168.44	711	179.77	729	191.15	747	202.60	764	214.10	781	225.66	797	237.29
59778	5400	636	141.05	658	152.76	678	164.53	698	176.38	717	188.21	736	199.95	754	211.75	771	223.60	788	235.50	804	247.45
61992	5600	644	148.14	665	160.15	685	172.29	705	184.49	724	196.75	742	209.01	760	221.16	777	233.35	794	245.60	810	257.90
64206	5800	651	155.69	672	167.79	692	180.29	712	192.85	731	205.47	749	218.14	767	230.83	784	243.37	801	255.97	817	268.61
66420	6000	658	163.49	679	175.93	699	188.54	719	201.46	738	214.44	756	227.47	774	240.56	791	253.67	807	266.62	824	279.61
68634	6200	666	171.56	687	184.38	707	197.22	726	210.33	745	223.66	763	237.06	780	250.50	798	263.99	814	277.54	830	290.88
70848	6400	674	179.91	694	193.11	714	206.32	733	219.56	752	233.16	770	246.91	787	260.71	804	274.56	821	288.46	837	302.41
73062	6600	681	188.53	702	202.11	721	215.71	740	229.32	759	242.95	777	257.03	794	271.19	811	285.40	828	299.65		
75276	6800	689	197.44	709	211.41	729	225.39	748	239.38	766	253.38	784	267.44	801	281.96	818	296.52	834	311.12		
77490	7000	697	206.64	717	221.00	737	235.36	755	249.73	773	264.11	791	278.50	808	293.01	825	307.93	841	322.89		

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate ■ H - High Pressure ■

The U.S. FAN class range is shown by the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.

For minimum motor size required see "Fan Starting Requirements," page 7.

Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.

All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).

Refer to factors on page 9 to convert numbers above to the desired metric units.

MAXIMUM OPERATING SPEEDS

SIZE 49A	-20° to 150°F -29° to 66°C
STD	673
I SERIES	773
H SERIES	NA

Wheel Diameter	85.25 inches	2165 mm
Wheel Circumference	22.32 feet	6.803 m
Inlet Diameter/Area	49 inches dia./12.76 sq. ft.	1245 mm/1.185 m ²
Outlet Size/Area	42.13 x 46.13 inches/ 13.15 sq. ft.	1070 x 1172 mm/ 1.222 m ²
Tip Speed	22.32 x RPM ft./minute	6.803 x RPM m/minute

VOL CFM	OUT VEL	½" SP		1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13150	1000	•125	•1.49	•165	•2.88	227	6.06														
15780	1200	131	1.88	170	3.48	229	6.99	277	10.95												
18410	1400	138	2.34	176	4.17	•233	•8.07	279	12.34	322	16.98										
21040	1600	145	2.88	182	4.92	237	9.24	283	13.86	320	18.84	358	24.12								
23670	1800	153	3.53	189	5.75	243	10.52	•287	•15.54	325	20.80	360	26.44	393	32.33	422	38.41				
26300	2000	162	4.29	196	6.71	249	11.92	292	17.33	•330	•23.02	363	28.88	395	35.12	425	41.62	452	48.27	478	55.08
28930	2200	170	5.15	203	7.78	256	13.40	297	19.26	334	25.34	367	31.63	398	38.09	427	44.89	454	51.96	480	59.18
31560	2400	179	6.14	211	9.00	262	15.00	304	21.34	339	27.78	•372	•34.50	402	41.38	430	48.40	456	55.71	482	63.35
34190	2600	188	7.31	219	10.37	269	16.76	310	23.53	345	30.43	377	37.49	•407	•44.80	434	52.25	460	59.83	484	67.59
36820	2800	198	8.63	227	11.89	276	18.68	316	25.83	351	33.23	382	40.69	411	48.36	•439	•56.24	465	64.25	489	72.38
39450	3000	207	10.12	236	13.56	283	20.76	323	28.28	358	36.16	388	44.09	416	52.12	443	60.38	•469	•68.81	493	77.36
42080	3200	217	11.79	244	15.39	290	23.00	330	30.97	364	39.20	395	47.66	423	56.11	448	64.70	474	73.53	•498	•82.51
44710	3400	227	13.64	253	17.40	298	25.50	337	33.84	370	42.42	401	51.33	429	60.30	454	69.31	478	78.44	502	87.82
47340	3600	237	15.70	262	19.70	306	28.20	344	36.90	377	45.88	407	55.17	435	64.66	461	74.12	485	83.67	507	93.33
49970	3800	247	17.96	272	22.22	314	31.10	351	40.15	384	49.60	414	59.19	441	69.12	467	79.14	491	89.12	513	99.20
52600	4000	258	20.47	281	24.95	323	34.21	358	43.67	391	53.52	420	63.49	448	73.78	473	84.27	497	94.78	519	105.29
55230	4200	268	23.22	291	27.92	331	37.54	366	47.49	398	57.65	427	68.08	454	78.66	480	89.58	503	100.61	525	111.61
57860	4400	279	26.22	301	31.14	340	41.10	374	51.54	405	62.01	434	72.91	461	83.85	486	95.11	509	106.57	532	118.14
60490	4600	289	29.48	310	34.62	348	44.90	383	55.84	413	66.68	441	77.97	468	89.37	492	100.86	516	112.77	538	124.76
63120	4800	300	33.02	320	38.37	357	48.96	391	60.39	421	71.72	449	83.26	475	95.14	499	107.04	522	119.20	544	131.63
65750	5000	311	36.85	330	42.40	366	53.46	399	65.21	429	77.02	456	88.81	482	101.16	506	113.52	529	125.93	551	138.75
68380	5200	321	40.97	340	46.72	375	58.27	408	70.31	437	82.60	463	94.82	489	107.44	513	120.27	536	133.13	557	146.13
71010	5400	332	45.40	351	51.34	385	63.38	416	75.68	445	88.47	471	101.17	496	113.99	520	127.29	543	140.61	564	153.97
73640	5600	343	50.15	361	56.31	394	68.81	425	81.35	453	94.64	479	107.81	504	120.93	527	134.60	550	148.38	571	162.19

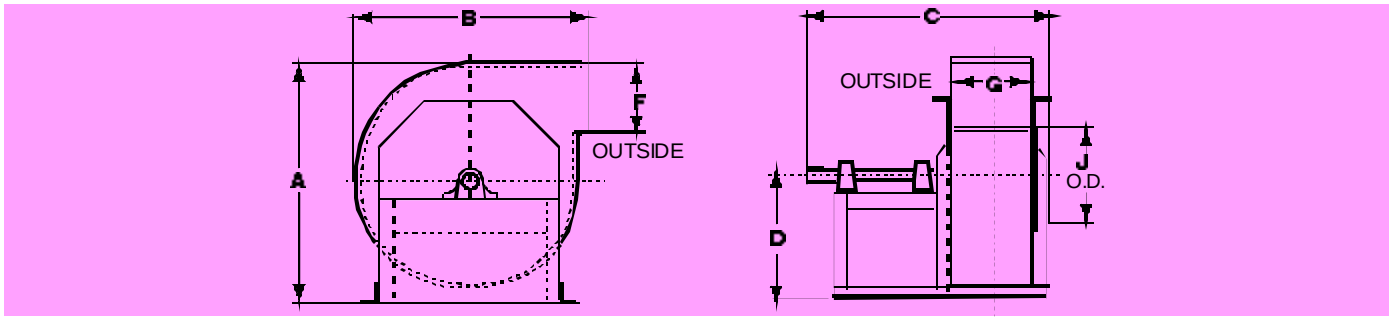
VOL CFM	OUT VEL	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP		19" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
31560	2400	507	71.13	530	79.05	553	87.10	574	95.27												
34190	2600	509	75.79	532	84.12	555	92.58	576	101.16	596	109.86	616	118.67								
36820	2800	512	80.62	534	89.26	557	98.13	578	107.12	598	116.23	618	125.45	637	134.78	656	144.21	674	153.75		
39450	3000	516	86.03	538	94.80	559	103.76	580	113.17	600	122.69	620	132.32	639	142.06	658	151.90	676	161.84	693	171.87
42080	3200	•520	•91.60	542	100.79	563	110.09	583	119.48	603	129.24	622	139.28	641	149.43	660	159.67	678	170.02	695	180.46
44710	3400	525	97.34	•547	•106.96	567	116.67	587	126.48	606	136.38	624	146.38	643	156.88	662	167.54	680	178.30	697	189.14
47340	3600	529	103.25	551	113.30	•572	•123.44	591	133.67	610	143.99	629	154.39	647	164.88	664	175.50	682	186.66	699	197.92
49970	3800	534	109.38	556	119.82	576	130.39	•596	•141.04	•615	•151.78	633	162.60	651	173.51	668	184.49	685	195.56	701	206.80
52600	4000	540	115.89	561	126.59	581	137.53	600	148.61	619	159.78	•638	•171.02	655	182.34	673	193.74	689	205.21	705	216.77
55230	4200	547	122.63	567	133.75	586	144.96	605	156.38	624	167.97	642	179.64	•660	•191.38	677	203.20	694	215.09	710	227.05
57860	4400	553	129.62	573	141.16	592	152.78	610	164.49	628	176.37	647	188.47	664	200.63	•681	•212.87	•698	•225.18	714	237.56
60490	4600	559	136.86	579	148.82	598	160.87	616	172.99	634	185.20	651	197.51	669	210.10	686	222.77	702	235.50	•719	•248.29
63120	4800	565	144.16	585	156.75	604	169.21	622	181.76	640	194.38	657	207.07	674	219.84	690	232.89	707	246.04	723	259.25
65750	5000	572	151.71	591	164.75	610	177.83	629	190.80	646	203.84	663	216.94	680	230.12	696	243.38	711	256.81	728	270.45
68380	5200	578	159.52	598	173.00	617	186.55	635	200.12	652	213.58	669	227.11	686	240.70	702	254.36	717	268.09	732	281.89
71010	5400	584	167.60	604	181.51	623	195.49	641	209.55	659	223.62	675	237.57	692	251.57	708	265.64	723	279.78	738	293.98
73640	5600	591	176.03	610	190.30	629	204.71	647	219.20	665	233.76	682	248.33	698	262.76	714	277.24	729	291.79	744	306.39
76270	5800	598	185.00	617	199.37	636	214.22	654	229.14	671	244.12	688	259.18	704	274.25	720	289.15	735	304.11	750	319.13
78900	6000	605	194.28	624	209.06	642	224.02	660	239.37	677	254.79	694	270.26	710	285.81	726	301.39	741	316.77	756	332.20
81530	6200	612	203.88	630	219.10	649	234.35	666	249.91	684	265.76	700	281.66	717	297.63	732	313.66	747	329.75	762	345.60
84160	6400	618	213.80	637	229.48	656	245.18	673	260.90	690	277.04	707	293.37	723	309.76	738	326.21	754	342.72	768	359.29
86790	6600	626	224.05	644	240.19	662	256.34	680	272.51	697	288.70	713	305.41	729	322.23	745	339.10	760	356.02		
89420	6800	633	234.65	651	251.24	669	267.84	687	284.46	703	301.09	719	317.78	735	335.02	751	352.32	766	369.67		
92050	7000	640	245.58	658	262.65	•676	279.71	693	296.77	710	313.85	726	330.95	742	348.16	757	365.88	772	383.65		

• Approximate Max. Static Efficiency and Quietest Selection. STD - Standard □ I - Intermediate □ H - High Pressure □
 The U.S. FAN class range is shown by the shaded areas. U.S. Fan standard carbon steel fans may be used up to the maximum RPM as listed above for each fan class; for further explanation, refer to page 7.
 For minimum motor size required see "Fan Starting Requirements," page 7.
 Performance shown is for installation type C: ducted inlet, free outlet. Losses for belt drives, inlet vane controls, and other accessories are not included.
 All capacities listed above are based on standard Air Density of 0.075 Lbs./Cu. Ft. at 70°F & 0 Ft. elevation (1.2 kg/m³ at 21.1°C & 0 m).
 Refer to factors on page 9 to convert numbers above to the desired metric units.

Industrial Fan

OVERALL FAN ENVELOPE IN INCHES

For details consult factory submittals.



Dimensions Suitable for Arrangement 1, 9 and 10.

SIZE	A						B					C	D	F	G	J	EST. WGT.
	TH	BH	UB	DB	TAU	BAU	TH	BH	UB & DB	TAU	BAU						
05	25	23	25	24	28	23	15	20	14	14	18	29	17	4 ½	4 ¼	5	145
07	28	26	29	27	33	26	22	22	20	19	25	32	17	6 ½	6 ¼	7	170
09	34	31	34	33	39	31	26	26	25	24	31	33	20 ¼	8 ¼	8	9	225
11	39	36	38	37	45	36	31	31	31	30	38	40	22	10 ¼	9 ½	11	315
13	47	43	45	44	54	42	36	36	37	35	44	43	26 ¼	12	11 ½	13	400
15	50	45	46	47	57	45	40	40	42	40	50	45	26 ¾	14	13	15	455
17	58	53	53	55	66	53	45	45	48	46	56	49	32	16	14 ½	17	640
19	66	60	60	62	74	59	50	50	53	51	62	53	36 ¼	17 ½	16 ¼	19	875
21	69	62	62	65	78	62	55	55	59	56	69	55	36 ¾	19 ½	18	21	970

For Sizes 23-49 Consult Factory Submittals

SIZE	A						B				C	D				F	G	J	EST. WGT.
	TH	BH	UB	DB	TAU	BAU	TH & BH	UB & DB	TAU	BAU		TH	BH & BAU	DB	UB & TAU				
07I	29	27	28	27	32	26	20	20	19	24	25	17 ½	17 ½	17 ½	17 ½	7	6 ¼	7	142
09I	32	29	30	30	36	29	25	25	24	30	27	17 ½	17 ½	17 ½	17 ½	8 ½	8	9	172
11I	39	35	36	37	44	35	30	31	30	37	34	21 ½	21 ½	21 ½	21 ½	10 ½	9 ¾	11	254
13I	42	38	39	39	48	37	35	37	35	43	37	21 ½	21 ½	21 ½	21 ½	12 ¼	11 ½	13	322
15I	48	43	44	45	54	43	40	42	40	50	43	24 ¼	24 ¼	24 ¼	24 ¼	14 ½	13	15	432
17I	54	49	49	51	61	48	45	48	46	56	48	27 ¾	27 ¾	27 ¾	27 ¾	16 ½	14 ½	17	538
19I	60	55	55	57	68	54	50	53	51	62	49	31	31	31	31	18	16 ¼	19	728
21I	67	60	60	63	76	60	55	59	56	69	54	34 ¼	34 ¼	34 ¼	34 ¼	19 ¾	18	21	920
23I	74	66	66	69	83	66	60	64	62	75	60	37 ¾	37 ¾	37 ¾	37 ¾	21 ¾	19 ¾	23	1180
26I	82	75	74	78	93	74	67	72	69	85	67	42 ¼	42 ¼	42 ¼	42 ¼	24 ½	22 ¼	26	1400
29I	92	84	83	87	104	83	75	81	77	94	72	47 ½	47 ½	47 ½	47 ½	28	24 ¾	29	2200
33I	105	95	94	99	118	94	85	93	88	107	77	53 ¾	53 ¾	53 ¾	53 ¾	31 ½	28 ½	33	3010
37I	118	107	105	111	132	101	95	103	98	120	85	60 ¾	60 ¾	60 ¾	60 ¾	35	31 ¾	37	3832
41I	118	118	109	108	140	115	106	114	107	133	85	54 ¼	67 ½	51 ¼	60 ½	38 ¾	35 ¼	41	4650
45I	130	130	118	118	154	126	115	125	118	147	88	60	74	57	66	42 ¼	38 ¾	45	5400
49I	140	141	127	129	166	138	126	137	128	160	91	64	80	61 ¾	70	46	42 ¼	49	6975

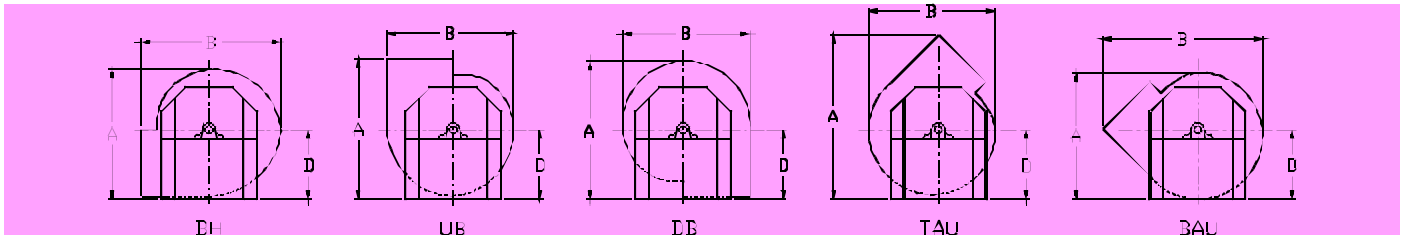
For 05I Consult Factory Submittals

Data shown on this page is for general information only and should not be used for exact installation dimensions. Columns A, B and C have been rounded up to the nearest 1". All other columns are rounded to the nearest ¼". For detailed dimensional data refer to the appropriate submittal drawing. All dimensional drawings represent clockwise rotation. Counterclockwise would be a mirror image and would not affect dimensions. Rotation is determined from the drive side of the unit.

Refer to factors on page 7 to convert numbers to the desired metric units.

Dimensions Suitable for Arrangement 1 and 9.

SIZE	A						B				C	D				F	G	J	EST. WGT.
	TH	BH	UB	DB	TAU	BAU	TH & BH	UB & DB	TAU	BAU		TH	BH & BAU	DB	UB & TAU				
11H	39	35	36	37	44	35	30	31	30	37	30	21 ½	21 ½	21 ½	21 ½	10 ½	9 ¾	11	300
13H	42	38	39	39	48	39	35	37	36	44	34	21 ½	21 ½	21 ½	21 ½	12 ¼	11 ½	13	400
15H	48	43	44	45	54	43	40	42	40	50	37	24 ¼	24 ¼	24 ¼	24 ¼	14 ½	13	15	580
17H	54	49	49	51	61	48	45	48	46	56	43	27 ¾	27 ¾	27 ¾	27 ¾	16 ½	14 ½	17	750
19H	60	55	55	57	68	54	50	53	51	62	44	31	31	31	31	18	16 ¼	19	950
21H	67	60	60	63	76	60	55	59	56	69	47	34 ¼	34 ¼	34 ¼	34 ¼	19 ¾	18	21	1150
23H	74	66	66	69	83	66	60	64	62	75	54	37 ¾	37 ¾	37 ¾	37 ¾	21 ¾	19 ¾	23	1450
26H	82	75	74	78	93	74	67	72	69	85	60	42 ¼	42 ¼	42 ¼	42 ¼	24 ½	22 ¼	26	1800
29H	92	84	83	87	104	83	75	81	77	94	65	47 ½	47 ½	47 ½	47 ½	27 ¾	24 ¾	29	2320
33H	105	95	94	99	118	94	85	92	88	107	71	53 ¾	53 ¾	53 ¾	53 ¾	31 ¼	28 ½	33	2850
37H	118	107	98	96	126	105	95	103	120	98	74	49 ½	60 ¾	45 ¼	54	35	31 ¾	37	3250
41H	118	118	110	107	140	117	105	114	132	109	83	54 ¼	67 ½	51 ¼	60 ½	38 ¾	35 ¾	41	3800



Data shown on this page is for general information only and should not be used for exact installation dimensions. Columns A, B and C have been rounded up to the nearest 1". All other columns are rounded to the nearest ¼". For detailed dimensional data refer to the appropriate submittal drawing. All dimensional drawings represent clockwise rotation. Counterclockwise would be a mirror image and would not affect dimensions. Rotation is determined from the drive side of the unit.

Refer to factors on page 7 to convert numbers to the desired metric units.

Series USM Typical Specifications

Furnish and install, as shown on the plans and specifications, U.S. Fan International® Series USM Industrial Fans.

Fan housings shall be of heavy sheet steel construction, ruggedly braced with steel angles and continuously welded scroll. Sizes 05-21 are convertible in the field both in rotation and discharge direction. Sizes 23-49 have fixed discharge.

Wheel diameters, inlet areas and outlet areas shall be in accordance with known AMCA Standards for Industrial Fans.

Fan Wheels

The wheel types shall be:

- M: Open wheel suitable for general material handling applications.
- MR: Rimmed wheel for improved performance and general material handling applications.
- MB: Backplated wheel designed to handle long fibrous or stringy materials.

A: Air handling wheel designed for handling clean air, smoke and heavy fumes where highest efficiency is desirable.

The wheels shall be available in 3 series of construction: standard, intermediate and high pressure to allow proper selection of the fan to the application. Bearings are to be sized to have a L-10 life of 40,000 hours minimum or average fatigue life of 200,000 hours or more. The bearings shall be pillow block type, heavy duty anti-friction, self-aligning ball or roller type.

Shafts shall be 1045 SAE steel shafts to be sized so that the first critical speed will be at least 1.25 times the maximum operating speed for each series.

Accessories such as inlet vanes, outlet dampers, special bearings, spark resistant construction, access doors, drain, guards, shaft seals, discharge and inlet flanges, etc. Shall be provided by the fan manufacturer, maintaining one source responsibility.

Fans shall be completely assembled and test run prior to shipment. Balance shall be accomplished with electronic equipment and records of each fans readings will be available to the customer upon request.

TERMS AND CONDITIONS

ACCEPTANCE All orders and sales are subject to written approval and acceptance by an executive officer of U.S. Fan International® at Ft. Smith, Arkansas, and are not binding on the Company until so approved.

DELIVERY Delivery of the equipment herein specified shall be made F.O.B. point of shipment, unless otherwise stated. The Company shall not be liable for delay due to causes beyond its reasonable control, such as Acts of God, acts of the purchaser, acts of civil or military authorities, riots, fires, strikes, floods, epidemics, war, riots, delays in transportation, car shortages, and inability, due to reasons beyond its reasonable control, to obtain necessary labor, material, or manufacturing facilities. In the event of such a delay, the date of delivery shall be extended for a period equal to the time lost by reason of the delay.

TERMS OF PAYMENT If, in the judgment of the Company, the financial condition of the purchaser at any time does not justify continuation of manufacture or shipment on the terms of payment specified, the Company may require full or partial payment in advance.

Pro rata payments shall be made due as shipments are made. Each shipment or delivery shall constitute a separate sale, and the default of any shipment or delivery shall constitute a separate sale, and the default of any shipment or delivery shall not vitiate the contract as to other shipments or deliveries.

WARNING U.S. Fan International® 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 of life or injury, the User should provide adequate backup 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 dimensions.

LIMITED WARRANTY

WARRANTY AND DISCLAIMER U.S. Fan International® extends this limited warranty to the original buyer and warrants that products manufactured by the Company shall be free from original defects in workmanship and materials for two years from date of shipment, provided same have been properly stored, installed, serviced, maintained and operated. This warranty shall not apply to products which have been altered or repaired without the Company's express authorization, or altered or repaired in any way so as, in the Company's judgment, to affect its performance or reliability, nor which have been improperly installed or subjected to misuse, negligence, or accident, or incorrectly used in combination with other substances. The Buyer assumes all risks and liability for results of use of the products. Warranties on purchased parts, such as but not limited to bearings, sheaves, belts, couplings, electric motors, pumps and controls are limited to the terms of warranty extended by our supplier.

Polyethylene tubing and cooling pads are warranted to be free of defects in material and workmanship for a period of 90 days from date of shipment and a like warranty applies to the cross fluted cellular type cooling cells for a period of two years from date of shipment provided same have been properly handled, stored, installed, serviced, maintained and operated. And further, not subjected to excessive heat, corrosive agents or chemicals, or mechanical abuse that may cause tearing, crushing or undue deterioration or used on a system or in a manner other than that for which it was designed as explained in the product literature.

LIMITATION OF REMEDY AND DAMAGES All claims under this warranty must be made in writing and delivered to 408 South Phoenix, Ft. Smith,

Arkansas 72916, within 15 days after discovery of the defect and prior to the expiration of two years from the date of shipment by the Company of the product claimed defective, and Buyer shall be barred from any remedy if Buyer fails to make such claim within such period.

Within 30 days after receipt of a timely claim, the Company shall have the option either to inspect the product while in Buyer's possession or to request Buyer to return the product to the Company at Buyer's expense for inspection by the Company. The Company shall replace, or at its option repair, free of charge, any product it determines to be defective, and it shall ship the repaired or replacement product to Buyer F.O.B. point of shipment; provided, however, if circumstances are such as in the Company's judgment to prohibit repair or replacement to remedy the warranted defects, the Buyer's sole and exclusive remedy shall be a refund to the Buyer of any part of the invoice price, paid to the Company, for the defective product or part.

The Company is not responsible for the cost of removal of the defective product or part, damages due to removal, or any expenses incurred in shipping the product or part to or from the Company's plant, or the installation of the repaired or replaced product or part.

Implied warranties, when applicable, shall commence upon the same date as the express warranty provided above, and shall, except for warranties of title, extend only for the duration of the express warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. The only remedy provided to you under an applicable implied warranty and the express warranty shall be the remedy provided under the express warranty, subject to the terms and conditions contained therein. The Company shall not be liable for incidental and consequential losses and damages under the express warranty, any applicable implied warranty, or

PRICE ADJUSTMENTS AND PROTECTION

Prices on equipment manufactured by the Company are firm for shipment up to four months from the date of the original order entry. Such prices are subject to adjustment if shipment is made after four months and up to ten months from the date of the original order entry, if equipment is shipped ten months from the date of the original order entry, prices will be adjusted to the price in effect at the time of shipment automatically. All complete component accessories manufactured by others and furnished with the Company's equipment such as motors, drives, vibration equipment, controls or other completely assembled component structures, are subject to adjustment to the price at time of shipment regardless of the date of original order entry.

SAFETY ACCESSORIES The Company manufactures equipment designed to serve multiple applications and offers a wide range of safety equipment, including guards and other devices, as may be required to meet customer specifications. Without exception, the Company recommends that all orders include applicable safety devices. Equipment or dered with out applicable safety devices is clearly the responsibility of the Purchaser. Further, the Purchaser warrants that he has determined and acquired any and all safety devices required for equipment sold by the Company. Weather covers and guards for motor and V-belt drives, couplings, shafts and bearings, along with inlet and outlet screens, are optional accessories noted in the price list.

claims of negligence, except to the extent that this limitation is found to be unenforceable under applicable state law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

No employee, agent, dealer, or other person is authorized to give any warranties on behalf of the Company or to assume for the Company any other liability in connection with any of its products except in writing and signed by an officer of the Company.

REPLACEMENT PARTS If replacement parts are ordered, buyer warrants that the original components in which these replacement parts will be placed are in satisfactory working condition, and when said replacement parts are installed, the resultant installation will operate in a safe manner, at speeds and temperatures for which the original equipment was purchased.

TECHNICAL ADVICE AND RECOMMENDATIONS, DISCLAIMER Notwithstanding any past practice or dealings or any custom of the trade, sales shall not include the furnishing of technical advice or assistance or system design. Any such assistance shall be at the Company's sole option and may be subject to additional charge.

The Company assumes no obligation or liability on account of any recommendations, opinions or advice as to the choice, installation or use of products. Any such recommendations, opinions or advice are given and shall be accepted at your own risk and shall not constitute any warranty or guarantee of such products or their performance.

GENERAL In no event shall any claim for consequential damages be made by either party. The Company will comply with all applicable Federal, State, and local laws.



U.S. Fan International®
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