

**CLASSES
I - II - III**



CHICAGO

AIRFOIL CENTRIFUGAL FANS

INDEX

Page	Item
2	AMCA Seal
3	Typical Fan Curves
4	General Description
5	Arrangements Available
6-7	Optional Accessories
8-9	Sound Calculations
10	High Temp Calculations
11	Application Data
12	Guide Specifications
13-23	SISW Fan Tables
24-30	DIDW Fan Tables
31-36	Roughing In Dimensions

	Class	Arrangement	Sizes	Type
31	I-II-III	1 and 9	8 $\frac{3}{4}$ -44 $\frac{1}{2}$	SISW
32	I-II	1 and 9	40 $\frac{1}{4}$ -80 $\frac{3}{4}$	SISW
33	III	1 and 9	22 $\frac{1}{4}$ -66	SISW
34	I-II	3	40 $\frac{1}{4}$ -80 $\frac{3}{4}$	SISW DIDW
35	III	3	30 -60	DIDW
36	I-II	3	27 -36 $\frac{1}{2}$	DIDW

**AMCA
CERTIFIED
RATINGS**

**AIR
PERFORMANCE**

**AIR
MOVEMENT
AND CONTROL
ASSOCIATION, INC.**
PRINTED IN THE UNITED STATES OF AMERICA

Chicago Blower Corporation certifies that the Airfoil Centrifugal D/10A SWSI and Airfoil Centrifugal SQA SWSI shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. Certified ratings for the licensed Airfoil Centrifugal D/10A SWSI and Airfoil Centrifugal SQA SWSI are shown on pages 13 through 23.

CHICAGO airfoil fans...



...quietest...most efficient...
for commercial and industrial
air handling applications

IMPROVED DESIGN now offers high pressures
with low speed and horsepower

**Class I-II-III — Sizes 8 $\frac{3}{4}$ thru 80 $\frac{3}{4}$ — Single
Inlet Single Width**

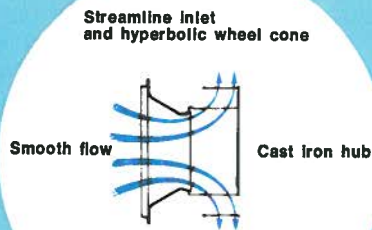
**Class I and II — Sizes 27 thru 80 $\frac{3}{4}$ — Double
Inlet Double Width**

**Class III — Sizes 30 thru 60 — Double Inlet
Double Width**

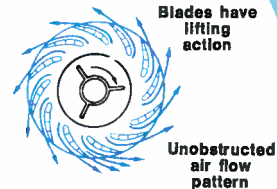
● 225 CFM to 284,000 CFM ● Temperatures to 800°F



Airfoil blading showing smooth "lifting" air flow pattern



Streamline inlet and hyperbolic wheel cone
Smooth flow
Cast iron hub
Conical wheel cone insures full blade loading



Blades have lifting action
Unobstructed air flow pattern
Non-overloading horsepower characteristics

AIRFOIL PERFORMANCE CHARACTERISTICS

Pressures to 13½ inches WG . . . static pressure from ½ to 13½ inches in volumes up to 406,000 CFM and temperatures to 800°F.

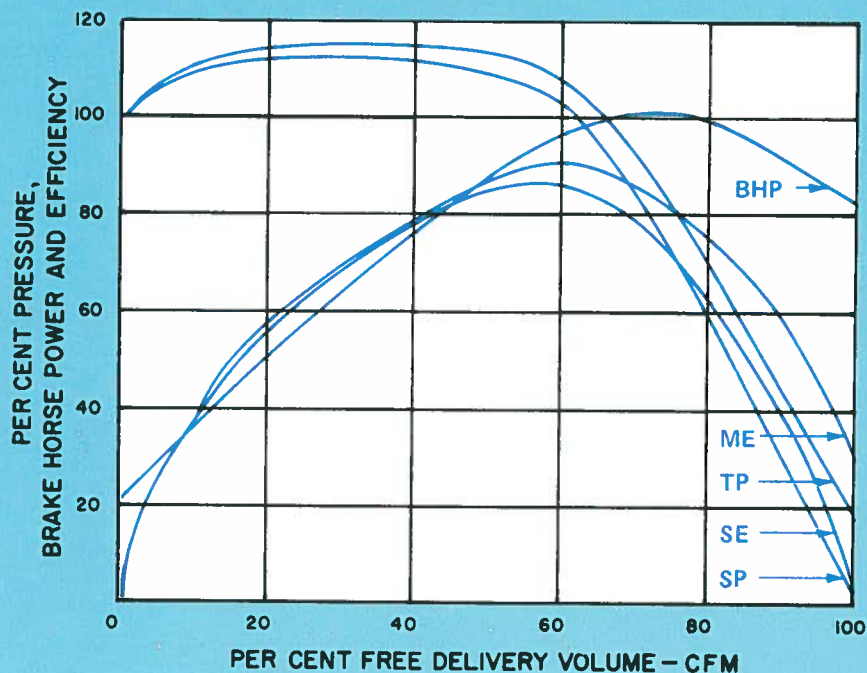
Steep Pressure Characteristics . . . this is so steep that if the actual system resistance for a given volume is 50% higher than calculated, the Airfoil fan will still deliver 90% of the original design volume.

Low Horsepower . . . comparative tests prove that Airfoil Fans use less horsepower than other designs. This permits smaller motor requirements and results

in less power consumption. Non-overloading power characteristic allows motor sizing based on fan brake horsepower.

20% to 40% Quieter . . . smooth air flow over the entire surface of each airfoil blade minimizes noise levels and increases operating efficiencies. See pages 8 and 9 for sound data.

Low Speed . . . the use of full diameter wheels and the maximum number of blades gives the lowest speed for a given duty.



GENERAL DESCRIPTION

SQuare FANS

SQuare FANS, SISW in sizes $8\frac{3}{4}$ through $44\frac{1}{2}$, Arrangement 1 and 9, Class I, II & III . . . Fans have heavy gauge steel, continuously welded, air tight, rugged square housings . . . offering four standard discharges: BH, TH, UB and DB. Each fan base has mounting holes for all four standard discharges.

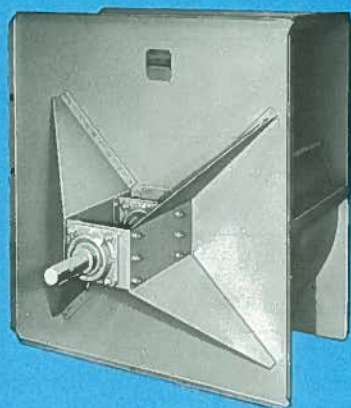
Design 10-A FANS

Des. 10-A Class I and II FANS, sizes $40\frac{1}{4}$ through $54\frac{1}{4}$ are built in Arrangement 1 and Arrangement 3 with fixed housings. Arrangement 9 with fixed housing is available in sizes $40\frac{1}{4}$ through 49. The volute style heavy gauge housing has solid welded corner joint and channel bracing. Full bases are channel braced to provide additional strength.

Des. 10-A Class I and II FANS, sizes 60 through $80\frac{3}{4}$, are built in Arrangement 1, and Arrangement 3 with fixed discharge. Septagonal housings are heavy gauge with continuously welded scroll — side sheet joint, heavily braced with channels and bars for rugged, vibration free service.

Arrangement 1 fans are furnished with full bases and Arrangement 3 fans are supplied with bearings mounted on the fan housing. For working conditions requiring more than 200 HP, consider direct drive or contact your Chicago Blower Sales Representative.

Des. 10-A Class III FANS are built as SISW in sizes $22\frac{1}{4}$ through 66 in Arrangement 1 and $22\frac{1}{4}$ through 49 in Arrangement 9, as well as DIDW in sizes 27 through 60, Arrangement 3. All Class III fans are constructed with the same housing configuration as described above but with heavier metal gauges, shafts and bearings. Wheels are fabricated from special alloy steel and blades are internally ribbed. For working conditions requiring more than 200 HP, consider direct drive or contact your Chicago Blower Sales Representative.



SQuare Fans — Arrangement 1
Sizes $8\frac{3}{4}$ through $44\frac{1}{2}$



Des. 10-A Arrangement 3 SISW
Sizes $40\frac{1}{4}$ through $54\frac{1}{4}$



Des. 10-A Arrangement 3 DIDW
Sizes 60 through $80\frac{3}{4}$

ARRANGEMENTS



ARRANGEMENT 1, SISW
For belt drive, open inlet. Wheel overhung. For elevated temperatures, corrosive fumes or ventilation and air conditioning applications.



ARRANGEMENT 9, SISW
For belt drive similar to Arrangement 1 except for provision to mount motor on top or side of fan.

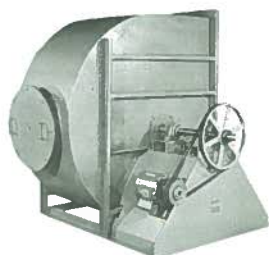
SQUARE HOUSING FAN BELT DRIVE NOMENCLATURE: Both Arrangements 3 and 9 may use a top or side mounted motor. "T" for Top; "SR" for right side; "SL" for left side. Right or Left is determined by looking at the fan from the drive side. Examples: 9T, 9SR, 9SL, 3T, 3SR and 3SL.

GENERAL NOTE: All Arrangement 1 and 9 Centrifugal Fans offered by Chicago Blower in this catalogue, whether they be designed with a square or scroll type housing, are constructed to accept a shaft cooler and shaft cooler guard as well as a shaft seal.

SQUARE HOUSING—SQA



ARRANGEMENT 1, SISW
For belt drive, open inlet. Wheel overhung. For elevated temperatures, corrosive fumes or ventilation and air conditioning applications.



ARRANGEMENT 9, SISW
For belt drive. Similar to Arrangement 1 except for provision to mount motor on side of bearing pedestal.



ARRANGEMENT 3, SISW
For belt drive. Wheel centering between bearings. For industrial applications, ventilation and air conditioning.



ARRANGEMENT 3, DIDW
For belt drive. Similar to Arrangement 3, single width construction and application. For large volumes of air.

SCROLL HOUSING—D/10A



WHEELS & SHAFTS

"Chicago" Airfoil wheels are supplied in all fan sizes: 12½ to 80½ in steel, continuously welded SISW and DIDW except sizes 27 to 36½ Class II DIDW which are stitch welded and cast aluminum in sizes 8½ - 10.

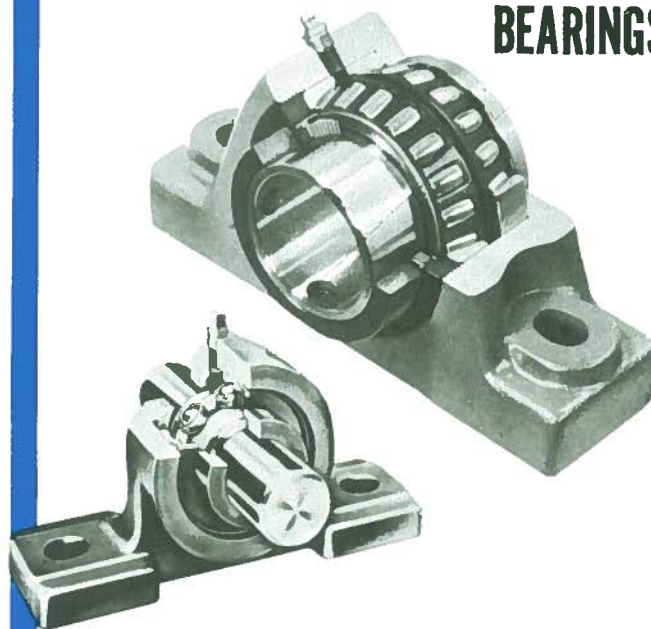
Structural strength of airfoil blading is so great that tie rods and intermediate bracing rings are unnecessary. This eliminates turbulence and permits a full flow of quiet air and increases efficiency.

The steel wheels have die-formed hollow airfoil blades welded to back and side plates making these wheels rugged for heavy service.

All wheels are balanced both statically and dynamically at factory.

Shafts are specially selected turned, ground and polished steel (SAE 1040-1045) to give tight, accurate bearing and hub fit. Shafts are sized to operate 20% or more below the first critical speed for each class of duty.

BEARINGS

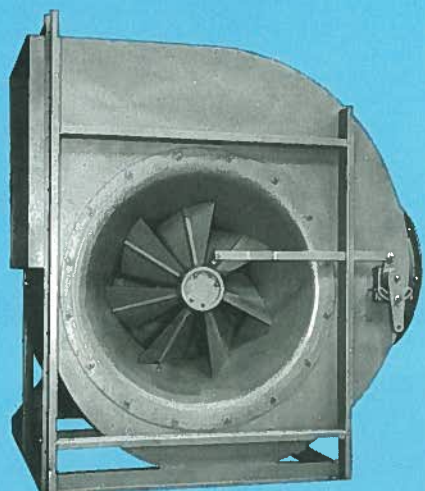


All classes of fans are furnished with grease-lubricated heavy-duty self-aligning ball bearing flange or pillow blocks with spherical roller bearings used on larger or higher class of duty fans.

Bearings are selected for continuous operation and ample size for best possible operating results.

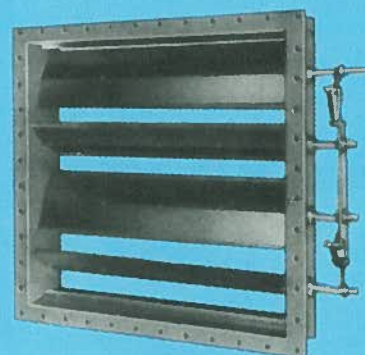
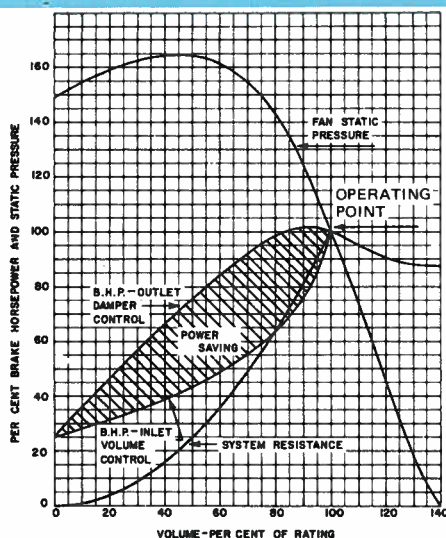
OPTIONAL ACCESSORIES & CONSTRUCTION

CHICAGO



1. INLET VANE CONTROL

**COMPARISON CURVES
OF INLET AND OUTLET DAMPERS**



2. OUTLET DAMPER

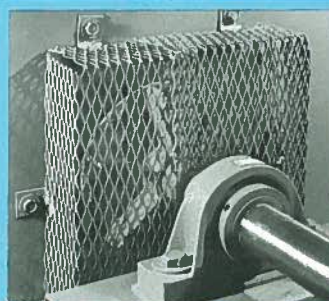
1. INLET VANE CONTROLS provide more economical performance at reduced air volume than the outlet damper. The adjustable guide vanes pre-spin the entering air in the same rotation as the wheel to produce the desired volume of air at the exact pressure. Reduced operating costs at partial loads plus the use of the lowest cost constant speed drive are additional advantages. Inlet vanes mounted within inlet cone for reduced shaft span and space. On Arr. 3 fans bearings are located exterior to IVC for ease of service. Offered for manual or automatic control inter-connecting linkage. Temperature limit 350°F. standard. Available for manual operation only to 650°F. Ideal for use in all variable volume HVAC systems.

2. OUTLET DAMPERS are available for both SISW and DIDW fans. Dampers are 10" to 13" deep in airflow direction with punched flanges both ends, for manual or automatic control. Damper shafts are at right angles to fan shaft. Dampers for Class I fans have single sheet blades, Class II have double surface blades, and Class III are para-flow type with opposed rotating louvres. Damper bearings have thrust washers and are bronze-oil sleeve to 250°F. and stainless steel sleeve to 600°F. Flanged outlet accessory is required to mount damper on fan. This type of damper control requires more horsepower at reduced air volume than the inlet vane control. Its advantage is low initial cost and simple operation.

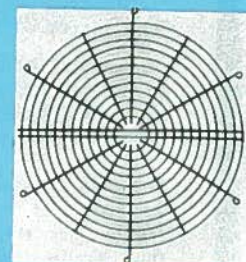
3. SHAFT COOLER AND GUARD: Cast aluminum cooling wheel split for installation and an expanded metal cooler guard. The temperature limit for Arrangement 1 or 9 is 300°F.; with a shaft cooler this limit is raised to 650°F. Combining the shaft cooler with a shaft seal on Arrangement 1 (only) permits a maximum limit of 800°F. on selected sizes and classes. Refer to Page 10 for further details covering High Temperature selection and necessary RPM deration.

4. INLET SCREEN: Welded wire, mounted in spun inlet cone. Mounted outside blades when furnished with IVC. Horizontal split on Arr. 3.

5. FLANGED INLET OR OUTLET: Inlet is formed ring bolted to inlet for duct connection. Outlet is flat bar, welded to housing discharge. Check local CHICAGO office for DB or TAD discharge.



3. SHAFT COOLER

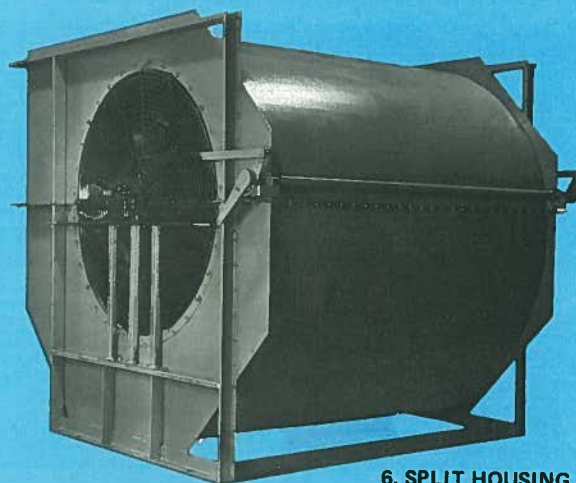


4. INLET SCREEN



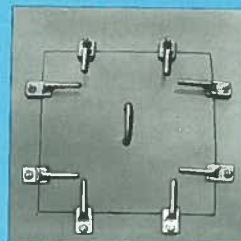
5. FLANGED INLET

6. **SPLIT HOUSINGS.** Standard Class I, II and III fan sizes 40½ through 54½ can be furnished with horizontal split housings to facilitate wheel removal at additional cost. Sizes 60 and above are furnished as standard with horizontal split housing. Housing splits are caulked and bolted when fan is shipped assembled. Traffic routing may require knocked-down shipment. Consult local CHICAGO office.



6. SPLIT HOUSING

7. **CLEAN-OUT DOOR (CLAMP):** Flush mounted, plate type with quick opening tension latches. Neoprene gasket to 300°F. Asbestos gasket to 800°F.



7. CLEAN-OUT DOOR (CLAMP)

8. **CLEAN-OUT DOOR (PLUG):** Round and raised 4" for insulation, with bolted door insert. Gasket is asbestos.



8. CLEAN-OUT DOOR (PLUG)

9. **INLET COLLAR:** Slip joint connection sleeve for SISW fans only. Required where inlet duct is used or fan inlet must be extended out beyond inlet bearing. Standard on SISW Square fans.



9. INLET COLLAR

10. **BELT GUARD:** For Arr. 9 only, enclosed on all sides with expanded metal at shaft openings to meet OSHA requirements. Removable for drive servicing.



10. BELT GUARD

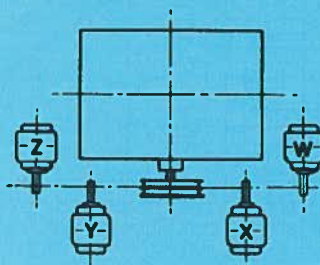
11. **HOUSING DRAIN:** Half coupling, less plug. Welded in lowest point of scroll.

12. **SPARK RESISTANT CONSTRUCTION:** Type C with steel wheel aluminum inlet cone and drive side aluminum buffing tube between wheel backplate and housing. For all classes, sizes 12½ through 73, Arr. 1 and 9, 600°F. max. temperature, not available when IVC is required.

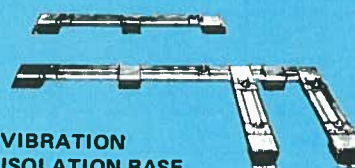
13. **EXTENDED GREASE TUBE FITTING:** Consists of nylon tube with grease fitting.

14. **SPECIAL PAINT & CORROSION RESISTANT COATINGS:** Consult your local CHICAGO office.

15. **VIBRATION ISOLATION BASES** are designed specifically for fan and blower applications. They are furnished with rubber in shear, or springs as an isolation media. Bases are supplied where both fan and motor base are built as an integral part. Type "C" base shown in picture.

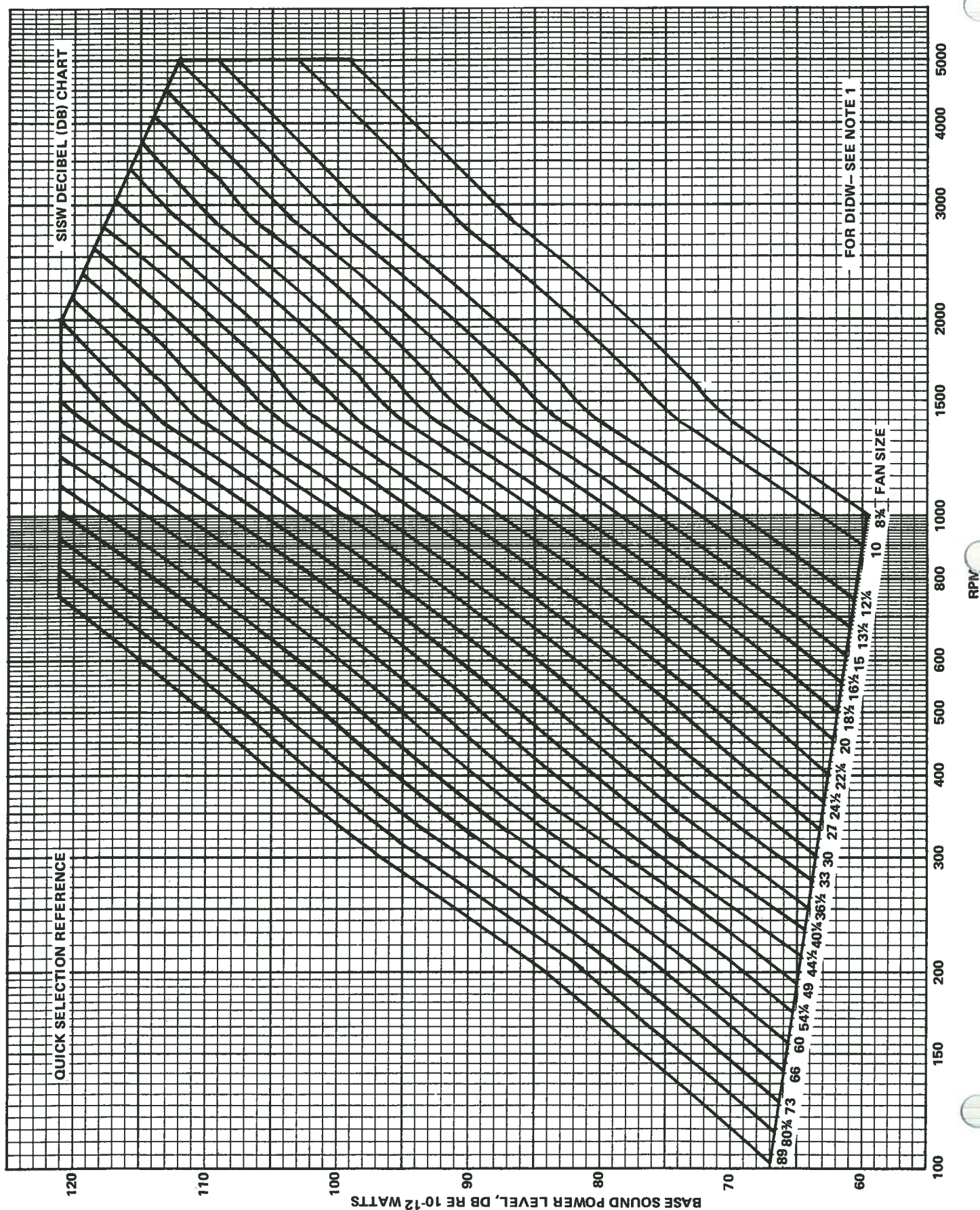


15a. MOTOR MOUNTING POSITIONS



15b. VIBRATION ISOLATION BASE

SOUND LEVEL GRAPH



SOUND LEVEL CALCULATION

OCTAVE BAND CONVERSION AT VARIOUS RPM's

OCTAVE		1	2	3	4	5	6	7	8	Theoretical DBA Correction
CENTER Hz		63	125	250	500	1000	2000	4000	8000	
RPM	100	-3	-6	-10	-12	-15	-17	-20	-22	-29
	150	-4	-5	- 9	-12	-15	-17	-20	-22	-28
	200	-3	-5	- 9	-12	-15	-17	-20	-22	-29
	300	-2	-3	-10	-14	-17	-19	-22	-24	-30
	400	-2	-9	-11	-14	-18	-20	-23	-25	-31
	500	-2	-7	-11	-14	-17	-20	-23	-25	-31
	600	-3	-5	-12	-13	-17	-20	-23	-25	-31
	800	-3	-5	-12	-14	-18	-21	-24	-26	-31
	1000	-2	-7	-11	-16	-18	-22	-25	-27	-32
	1200	-1	-8	-11	-17	-19	-23	-26	-28	-33
	1400	-1	-9	-11	-19	-19	-24	-27	-29	-34
	1600	-2	-8	-10	-17	-19	-23	-26	-29	-33
	1800	-2	-6	-10	-16	-19	-22	-26	-29	-33
	2000	-3	-5	-10	-15	-19	-22	-26	-28	-32
	2200	-3	-4	-10	-14	-20	-21	-25	-28	-32
	2400	-4	-4	-10	-13	-20	-21	-25	-28	-32
	2600	-5	-3	-11	-12	-20	-21	-25	-28	-31
	2800	-6	-3	-11	-12	-20	-21	-25	-29	-31
3000	-6	-3	-10	-12	-19	-21	-25	-28	-31	
3200	-6	-3	- 9	-12	-19	-21	-24	-28	-30	
3500	-6	-3	- 8	-11	-17	-20	-24	-27	-30	
4000	-7	-4	- 6	-11	-16	-20	-23	-27	-29	
4500	-7	-4	- 5	-11	-14	-20	-22	-26	-28	

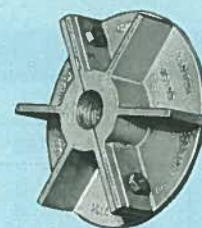
PROCEDURE: Enter DB chart at fan RPM and read vertically up to fan size. Resulting DB value is then used as a base from which octave band values may be obtained by applying corrections shown on the table above at this RPM. Similarly, apply DBA correction to this base sound power level to obtain DBA.

- NOTES:**
1. Add 3 DB for DIDW fan of same size and RPM.
 2. Values shown are for total internal sound power level re 10^{-12} watt per AMCA Bul. 301 and 303. If necessary to obtain sound pressure level at 5 feet from fan, subtract 15 DB and make a further correction for end reflection based on data in the ASHRAE Guide.
 3. DBA value applies to 10 foot distance based on theoretical free field environment.
 4. The AMCA Certified Ratings Seal applies to air performance ratings only.
 5. Ratings apply to normal range of selection for high efficiency.
 6. Octave band center frequency in cycles/sec., Hz, are per ANSI SI.6-1960 and AMCA series 2.
 7. The SOUND POWER level readings from the graph may be used by the sound engineer to calculate the SOUND PRESSURE level (heard by the human ear) for the fan as installed. This would be based on considerations of room sound absorption, distance from the fan, end reflection, background noise, etc. — see notes 2 and 3 above.
 8. The data given on pages 8 and 9 has been expanded in a Chicago Blower Engineering Bulletin containing sound power and sound pressure detailed calculations. Such items as the effect of IVC position, duct work connected to fan, air density, point of fan operation, etc., are taken into consideration. Use of the above charts and table provide a quick solution and typically a more conservative sound level estimate.

HIGH TEMPERATURE FAN SELECTION

"Chicago" Airfoil Centrifugal Fans are perfectly suited to handling hot gases for air at high temperatures common to induced draft, industrial ovens, etc. Available in various drive arrangements in accordance with the chart below. Shaft cooler with a screen guard is used at higher temperatures. (See table below.)

Class I through Class III fans can be used for temperatures ranging from -50°F. to +800°F. All fans must be operated within the maximum RPM limits listed for Class I through III and these limits must be derated per maximum allowable speed table shown below.



HIGH TEMPERATURE OPERATING LIMITS

ARR.	SIZES	CLASS	MAXIMUM TEMPERATURE WITHOUT SHAFT COOLER	MAXIMUM TEMPERATURE WITH SHAFT COOLER
3 SISW	40% - 80% D/10A	I, II	150°F	Not Available
3 DIDW	27 - 80% SQA & D/10A	I, II	150°F	Not Available
3 DIDW	30 - 60 D/10A	III	150°F	Not Available
1 SISW	8% - 44½ SQA (+)	I, II, III	300°F	650°F
1 SISW(*)	40% - 80% D/10A	I, II	300°F	650°F(*)
1 SISW(*)	22% - 66 D/10A	III	300°F	650°F(*)
9 SISW	8% - 44½ SQA (+)	I, II, III	300°F	650°F
9 SISW	40% - 49 D/10A	I, II	300°F	650°F
9 SISW	22% - 49 D/10A	III	300°F	650°F

*Maximum Temperature with shaft cooler AND shaft seal is 800°F

(+) Maximum Temperature for 8% - 10 is 200°F.

HIGH TEMPERATURE & ALTITUDE FAN SELECTION

Fan capacity tables are based on standard air at 70°F. and sea level. For any other operating conditions it is necessary to correct the HP and SP of the fan and check the maximum allowable RPM for BOTH wheel and shaft using Charts below.

Example: Select a fan to handle 14500 CFM at 3" SP at 500°F. and 2500 ft. altitude.

1. Refer to Chart at 2500 ft., 500°F. and select a correction factor of 1.99 — say 2.00.
2. 3" SP x 2.00 = 6.00" SP at 70°F. and sea level.
3. Select a Class II size 27 SISW fan to handle 14500 CFM at 6.00" SP operating at 1764 RPM requiring 19.63 BHP at 70°F. and sea level.
4. correct the BHP by dividing 19.63 by 2.00 i.e. 9.8 BHP which is the corrected BHP for 500°F. at 2500 ft. altitude.

5. Both the wheel and shaft must be individually checked using the maximum RPM's for each and the individual temperature deration factors from Chart.

a. Shaft maximum RPM at 70°F. from Chart is 2087. Shaft deration factor for 500°F. is .94.

Maximum shaft RPM at 500°F. (.94) (2087) = 1962.

b. Class II wheel maximum RPM at 70°F. from chart is 2219.

Wheel deration factor for 500°F. is .82.

Maximum wheel RPM at 500°F. (.82) (2219) = 1820.

Note: In this example, the 1820 wheel derated RPM is lower than the shaft at 1962 RPM, but above the 1764 required to meet the air performance. While the Class I fan could make the air performance at 70°F., a Class II fan is required for the 500°F. derated shaft RPM.

Altitude & temperature correction factors

Air Temp. (F.)	ALTITUDE (Feet)									
	0	1000	1500	2000	2500	3000	3500	4000	4500	5000
0°	.87	.91	.92	.94	.96	.98	.99	1.01	1.03	1.05
70	1.00	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20
100	1.06	1.10	1.12	1.14	1.16	1.19	1.21	1.23	1.25	1.28
120	1.09	1.14	1.16	1.18	1.20	1.23	1.25	1.28	1.30	1.32
140	1.13	1.18	1.20	1.22	1.25	1.27	1.29	1.32	1.34	1.37
160	1.17	1.22	1.24	1.26	1.29	1.31	1.34	1.36	1.39	1.42
180	1.21	1.26	1.28	1.30	1.33	1.36	1.38	1.41	1.43	1.46
200	1.25	1.29	1.32	1.34	1.37	1.40	1.42	1.45	1.48	1.51
250	1.34	1.39	1.42	1.45	1.47	1.50	1.53	1.56	1.59	1.62
300	1.43	1.49	1.52	1.55	1.58	1.61	1.64	1.67	1.70	1.74
350	1.53	1.59	1.62	1.65	1.68	1.72	1.75	1.78	1.81	1.85
400	1.62	1.69	1.72	1.75	1.79	1.82	1.85	1.89	1.93	1.96
450	1.72	1.79	1.82	1.86	1.89	1.93	1.96	2.00	2.04	2.08
500	1.81	1.88	1.92	1.96	1.99	2.03	2.07	2.11	2.15	2.19
550	1.91	1.98	2.02	2.06	2.10	2.14	2.18	2.22	2.26	2.30
600	2.00	2.08	2.12	2.16	2.20	2.24	2.29	2.33	2.38	2.42
650	2.10	2.18	2.22	2.26	2.31	2.35	2.40	2.44	2.49	2.54
700	2.19	2.27	2.32	2.36	2.41	2.46	2.50	2.55	2.60	2.65
750	2.28	2.37	2.42	2.47	2.51	2.56	2.61	2.66	2.71	2.76
800	2.38	2.48	2.52	2.57	2.62	2.66	2.72	2.76	2.81	2.86

Correction factors for temperature (F.) and altitude (feet above sea level), standard air = .075 lbs. per cubic foot at sea level, 29.92" barometric pressure and 70°F.

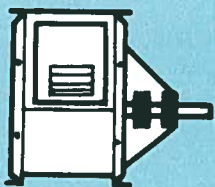
MAXIMUM ALLOWABLE RPM

SAFE SPEED DERATION FOR TEMPERATURE		
TEMP. °F.	STANDARD STEEL WHEEL	STANDARD STEEL SHAFT
-50	1.00	1.00
70	1.00	1.00
100	1.00	1.00
200	.94	.99
300	.90	.98
350	.88	.97
400	.86	.97
450	.84	.95
500	.82	.94
550	.81	.94
600	.79	.94
650	.78	.93
700	.76	.92
800	.68	.90

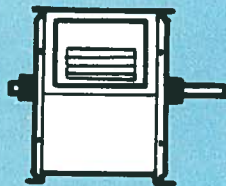
Multiply maximum RPM at 70°F (Page 11) by deration factor to determine if within safe speed.

DRIVE ARRANGEMENTS FOR CENTRIFUGAL FAN

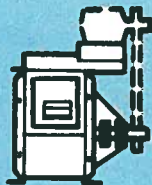
SQUARE HOUSING FANS CLASS I-II-III SIZES 8 $\frac{3}{4}$ - 44 $\frac{1}{2}$



ARR. 1 SISW For belt drive or direct connection. Impeller overhung. Two individual bearings on base.



ARR. 3 DIDW For belt drive or direct connection. One bearing on each side and supported by fan housing.

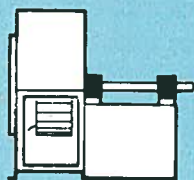


ARR. 9 SISW For belt drive. Impeller overhung, two individual bearings with prime mover on fan.

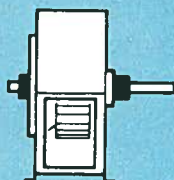
SQUARE HOUSING FAN BELT DRIVE NOMENCLATURE: Both Arrangements 3 and 9 may use a top or side mounted motor. "T" for Top; "SR" for right side; "SL" for left side. Right or Left is determined by looking at the fan from the drive side.

Examples: 9T, 9SR, 9SL, 3T, 3SR and 3SL.

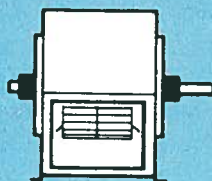
SCROLL HOUSING FANS CLASS I - II SIZES 40 $\frac{1}{4}$ - 80 $\frac{3}{4}$; CLASS III SIZES 22 $\frac{1}{4}$ - 66



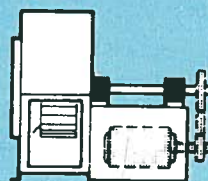
ARR. 1 SISW For belt drive or direct connection. Impeller overhung. Two bearings on base.



ARR. 3 SISW For belt drive or direct connection. One bearing on each side and supported by fan housing.



ARR. 3 DIDW For belt drive or direct connection. One bearing on each side and supported by fan housing.



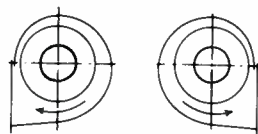
ARR. 9 SISW For belt drive. Impeller overhung, two bearings, with prime mover outside base.

NOTE: All Arrangement 1 and 9 fans by Chicago Blower are built to accept a shaft cooler and/or shaft seal.

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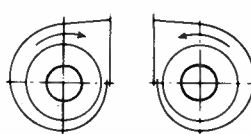
DIRECTION OF ROTATION & DISCHARGE

Clockwise Counterclockwise



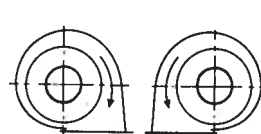
Bottom Horizontal

Clockwise Counterclockwise



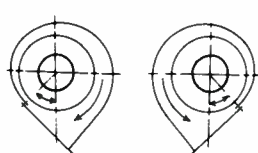
Top Horizontal

Clockwise Counterclockwise



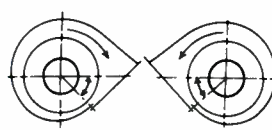
Down Blast

Clockwise Counterclockwise



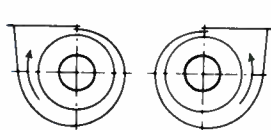
Bottom Angular Down

Clockwise Counterclockwise



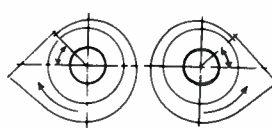
Top Angular Down

Clockwise Counterclockwise



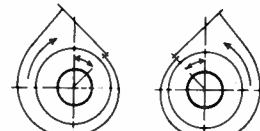
Up Blast

Clockwise Counterclockwise



Bottom Angular Up

Clockwise Counterclockwise



Top Angular Up

Fan can be furnished either clockwise or counterclockwise. Direction of rotation is determined when fan is viewed from the drive side. Discharge positions can be furnished in only one of the four cardinal points: Bottom or Top Horizontal, and Vertical Down or Up Blast. Between these points any angular direction can be accommodated... except on square-housed fans. However, unless otherwise specified on Scroll housing fans, standard increments would be on the basis of 45°.

MAXIMUM WHEEL AND SHAFT RPM @ 70°F (SISW ONLY)

SIZE	CLASS I		CLASS II		CLASS III	
	Shaft	Wheel	Shaft	Wheel	Shaft	Wheel
8 $\frac{3}{4}$	5000	5000	—	—	—	—
10	4962	4962	—	—	—	—
12 $\frac{1}{4}$	4046	4983	4280	4983	—	—
13 $\frac{1}{2}$	3675	4520	3884	4520	—	—
15	3302	4067	3586	4067	—	—
16 $\frac{1}{2}$	2992	3633	3509	3632	—	—
18 $\frac{1}{4}$	2706	3285	3173	3285	—	—
20	2469	2997	2895	2997	—	—
22 $\frac{1}{4}$	2155	2653	2483	2653	2910	3228
24 $\frac{1}{2}$	2015	2446	2300	2446	2643	3088
27	1829	2219	2087	2219	2398	2692
30	1647	1928	1807	1928	2115	2400
33	1413	1643	1552	1643	1923	2100
36 $\frac{1}{2}$	1344	1412	1497	1497	1639	1790
40 $\frac{1}{4}$	903	1043	1179	1334	1486	1549
44 $\frac{1}{2}$	817	899	1066	1147	1344	1344
49	742	869	968	1110	1221	1285
54 $\frac{1}{4}$	670	747	875	950	1103	1103
60	606	759	791	909	997	1129
66	551	658	719	826	906	—
73	498	565	650	721	—	—
80 $\frac{3}{4}$	450	486	588	620	—	—

LOW NOISE LEVEL SELECTION

FAN SELECTION FOR LOWEST NOISE LEVELS-SISW FANS

The AIRFOIL fan is the quietest, most efficient fan. Its proper size selection is determined by factors important to the user such as: efficiency, speed requirements, space conditions and first cost. The several possible correct fan operating

points for a given job are based on the relationship between fan static pressure and outlet velocity, regardless of fan size, as shown in the following table: (Calculate DB level from pages 8 and 9.)

SISW FAN OUTLET VELOCITY VS STATIC PRESSURE

POSSIBLE FAN SELECTIONS	1" SP	1½" SP	2" SP	2½" SP	3" SP	3½" SP	4" SP	4½" SP	5" SP
	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM
Most Efficient (Quietest)	900-1000	1200-1400	1300-1500	1400-1600	1600-1800	1700-1900	1700-1900	1700-1900	1800-2000
Average Good Selection	1200-1400	1500-1700	1600-1800	1700-1900	1900-2100	2000-2200	2000-2200	2000-2200	2000-2200
Economical Selection	1500-1700	1800-2000	1900-2200	2000-2400	2400-2600	2400-2600	2400-2600	2400-2600	2400-2600
POSSIBLE FAN SELECTIONS	5½" SP	6" SP	7" SP	8" SP	9" SP	10" SP	11" SP	12" SP	13" SP
	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM
Most Efficient (Quietest)	1800-2000	2000-2400	2000-2400	2200-2600	2600-3000	3000-3400	3200-3600	3200-2600	3200-3600
Average Good Selection	2200-2600	2600-3000	2600-3000	2600-3000	3000-3400	3600-4000	3600-4000	3400-3800	3400-3800
Economical Selection	2800-3200	3000-3400	3000-3400	3200-3600	3600-4000	4000-4400	4000-4200	3800-4000	3600-3800

White Area = Class I

Light Shaded Area = Class II

Heavy Shaded Area = Class III

SPECIFICATIONS GUIDE

The following specifications form is offered as a guide to architects, engineers and fan buyers for preparing complete specifications for fan requirements.

Furnish and install as shown on the plans _____ Centrifugal Ventilating Fans equal to fan size _____ Airfoil Centrifugal Fans as manufactured by the Chicago Blower Corporation. Wheel of not less than _____ inches diameter to be of backward curved non-overloading type utilizing an aerodynamically shaped airfoil blade.

Class _____ single inlet, single width (or double inlet, double width) Arrangement _____ full housed. _____

rotation, _____ discharge. The fan shall have a capacity of _____ cubic feet per minute against a static pressure of _____ inches water gauge measured at _____ ° F. and _____ inches Hg. barometer, when operating at a speed of not more than _____ RPM and requiring not more than _____ BHP and the outlet velocity not to be more than _____ FPM.

Fans are to be tested and rated in accordance with Bulletin 210 Plate I of the Standard Test Code published by the Air Moving and Conditioning Association and shall bear the AMCA seal.

WHEEL	9-7/16 in. diameter	OUTLET	8-9/16x7-9/16 in. inside	.45 sq. ft. inside area	MAXIMUM BHP = $.0126 \left(\frac{\text{RPM}}{1000} \right)^3$	8 3/4 SISW
CLASS I — RPM 5000			TIP SPEED, fpm = 2.47 x RPM			

CFM	OV FPM	1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		7/8" SP		1" SP		1-1/4" SP		1-1/2" SP		1-3/4" SP		2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
225	500	1001	.01	1139	.02	1331	.03	1508	.04	1605	.05	1762	.07	1846	.08	2063	.11						
270	600	1097	.02	1216	.03	1410	.04	1580	.05	1683	.06	1843	.08	1917	.09								
315	700	1198	.03	1307	.04	1508	.05	1683	.06	1762	.07	1843	.08	1917	.09	2063	.11						
360	800	1306	.04	1408	.05	1502	.06	1591	.07	1678	.08	1762	.09	1846	.10	2063	.11						
405	900	1420	.05	1513	.06	1601	.07	1683	.08	1762	.09	1843	.10	1917	.11	2063	.12						
450	1000	1536	.06	1623	.07	1706	.08	1784	.09	1860	.10	1932	.11	2002	.12	2139	.15						
495	1100	1656	.07	1735	.08	1813	.09	1888	.10	1960	.11	2027	.12	2092	.13	2222	.16						
540	1200	1785	.08	1851	.09	1924	.10	1995	.11	2063	.12	2128	.13	2194	.14	2313	.18						
585	1300	1912	.09	1971	.10	2039	.11	2106	.12	2170	.13	2232	.14	2292	.15	2407	.20						
630	1400	2040	.10	2097	.11	2154	.12	2219	.13	2281	.14	2339	.15	2396	.16	2509	.22						
675	1500	2169	.11	2225	.12	2273	.13	2334	.14	2390	.15	2447	.16	2506	.17	2610	.25						
720	1600	2297	.12	2352	.13	2400	.14	2450	.15	2506	.16	2561	.17	2610	.18	2717	.28						
765	1700	2429	.13	2481	.14	2528	.15	2572	.16	2622	.17	2676	.18	2725	.19	2825	.30						
810	1800	2561	.14	2609	.15	2656	.16	2698	.17	2741	.18	2791	.19	2840	.20	2935	.33						
855	1900	2690	.15	2738	.16	2783	.17	2825	.18	2862	.19	2908	.20	2950	.21	3043	.36						
900	2000	2824	.16	2868	.17	2911	.18	2954	.19	2990	.20	3026	.21	3071	.22	3158	.40						
945	2100	2956	.17	2999	.18	3041	.19	3082	.20	3117	.21	3151	.22	3184	.23	3264	.45						
990	2200	3090	.18	3130	.19	3169	.20	3209	.21	3246	.22	3282	.23	3317	.24	3393	.50						
1035	2300	3224	.19	3263	.20	3301	.21	3339	.22	3375	.23	3410	.24	3444	.25	3517	.55						
1080	2400	3358	.20	3396	.21	3433	.22	3469	.23	3504	.24	3538	.25	3571	.26	3643	.60						
1125	2500	3492	.21	3529	.22	3565	.23	3600	.24	3634	.25	3667	.26	3699	.27	3769	.65						
1170	2600	3627	.22	3663	.23	3698	.24	3732	.25	3765	.26	3797	.27	3828	.28	3897	.70						
1215	2700	3761	.23	3796	.24	3830	.25	3863	.26	3895	.27	3926	.28	3956	.29	4024	.75						
1260	2800	3895	.24	3929	.25	3962	.26	3994	.27	4025	.28	4055	.29	4084	.30	4151	.80						
1305	2900	4029	.25	4062	.26	4094	.27	4125	.28	4155	.29	4184	.30	4212	.31	4278	.85						
1350	3000	4163	.26	4195	.27	4226	.28	4256	.29	4285	.30	4313	.31	4340	.32	4405	.90						
1395	3100	4297	.27	4328	.28	4358	.29	4387	.30	4415	.31	4442	.32	4468	.33	4532	.95						
1440	3200	4431	.28	4461	.29	4490	.30	4518	.31	4545	.32	4571	.33	4597	.34	4660	1.00						

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

WHEEL	10-25/32 in. diameter	OUTLET	9-13/16x8-5/8 in. inside	.59 sq. ft. inside area	MAXIMUM BHP = $.0227 \left(\frac{\text{RPM}}{1000} \right)^3$	10 SISW
CLASS I — RPM 4962			CLASS II — RPM 4962			TIP SPEED, fpm = 2.82 x RPM

CFM	OV FPM	1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		7/8" SP		1" SP		1-1/4" SP		1-1/2" SP		1-3/4" SP		2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
295	500	874	.02	1006	.02																		
354	600	948	.02	1063	.03	1173	.04																
413	700	1035	.03	1131	.03	1232	.04	1328	.05	1421	.06												
472	800	1124	.03	1216	.04	1301	.05	1389	.06	1474	.07	1555	.08	1637	.10								
531	900	1218	.04	1306	.05	1386	.06	1459	.07	1535	.08	1614	.10	1692	.11	1832	.14						
590	1000	1315	.05	1397	.06	1473	.07	1543	.08	1608	.10	1678	.11	1747	.12	1882	.15	2012	.18				
649	1100	1413	.06	1490	.07	1563	.09	1630	.10	1694	.11	1753	.12	1816	.14	1941	.17	2066	.20	2187	.23		
708	1200	1511	.07	1583	.09	1655	.10	1721	.12	1781	.13	1840	.14	1895	.16	2008	.19	2125	.22	2240	.25	2346	.29
767	1300	1612	.09	1683	.10	1749	.12	1811	.13	1871	.15	1928	.16	1985	.18	2083	.21	2191	.24	2300	.28	2401	.31
826	1400	1713	.10	1783	.12	1844	.14	1904	.15	1961	.17	2017	.19	2069	.20	2170	.23	2262	.26	2362	.30	2464	.34
885	1500	1817	.12	1880	.14	1942	.16	2000	.17	2054	.19	2108	.21	2161	.23	2255	.26	2347	.30	2435	.33	2531	.37
944	1600	1920	.14	1982	.16	2041	.18	2096	.20	2150	.22	2199	.24	2248	.25	2344	.29	2432	.33	2521	.37	2601	.40
1003	1700	2026	.17	2083	.19	2141	.20	2194	.23	2247	.25	2295	.26	2341	.28	2434	.33	2523	.36	2603	.40	2684	.44
1062	1800	2130	.19	2185	.21	2242	.23	2294	.26	2341	.27	2390	.30	2435	.32	2524	.36	2609	.40	2692	.44	2772	.49
1121	1900	2237	.22	2288	.24	2343	.26	2394	.29	2441	.31	2487	.33	2531	.35	2617	.40	2700	.44	2778	.48	2856	.53
1180	2000	2343	.26	2394	.28	2444	.30	2495	.32	2539	.34	2587	.37	2629	.39	2711	.44	2794	.48	2869	.53	2945	.58
1239	2200	2556	.33	2604	.35	2651	.38	2696	.40	2740	.43	2782	.45	2825	.48	2902	.53	2980	.58	3038	.62	3126	.68
1416	2400	2774	.42	2816	.44	2860	.47	2902	.50	2942	.52	2983	.55	3022	.58	3098	.63	3169	.68	3247	.75	3309	.80
1534	2600	2987	.52	3028	.55	3069	.58	3110	.60	3150	.63	3186	.66	3223	.69	3295	.75	3366	.81	3430	.87	3487	.93
1652	2800	3204	.64	3245	.67	3281	.70	3320	.73	3358	.76	3392	.79	3426	.82	3500	.89	3565	.95	3625	1.01	3687	1.08
CFM	OV FPM	2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP		5" SP		5-1/2" 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	RPM	BHP
767	1300	2605	.39																				
826	1400	2656	.42	2842	.50																		
885	1500	2717	.45	2896	.54	3058	.62																
944	1600	2778	.49	2948	.57	3110	.66	3274	.76														
1003	1700	2843	.52	3008	.61	3165	.71	3323	.81	3466	.90												
1062	1800	2918	.57	3070	.66	3228	.76	3384	.86	3518	.96	3664	1.07										
1121	1900	2999	.61	3142	.71	3291	.80	3432	.91	3572	1.01	3714	1.13	3845	1.24								
1180	2000	3086	.67	3216	.76	3356	.86	3494	.96	3631	1.07	3764	1.18	3898	1.30	4024	1.42						
1239	2200	3260	.78	3388	.88	3506	.98	3632	1.09	3763	1.20	3882	1.32	4005	1.44	4132	1.57	4374	1.83				
1416	2400	3442	.92	3562	1.02	3680	1.13	3790	1.24	3900	1.35	4016	1.47	4130	1.59	4250	1.73	4480	2.00	4692	2.27	4914	2.57
1534	2600	3622	1.05	3742	1.18	3856	1.30	3970	1.42	4068	1.52	4186	1.64	4271	1.77	4382	1.90	4600	2.19	4802	2.47		
1652	2800	3808	1.21	3922	1.34	4034	1.48	4138	1.60	4237	1.73	4340	1.85	4431	1.98	4524	2.10	4724	2.38	4928	2.69		
1770	3000	4000	1.38	4108	1.52	4216	1.67	4322	1.81	4414	1.94	4510	2.08	4604	2.21	4694	2.35	4870	2.62				
1888	3200	4192	1.57	4300	1.72	4398	1.87	4496	2.02	4594	2.18	4688	2.32	4779	2.47	4864	2.61						
2006	3400	4388	1.79	4494	1.95	4590	2.10	4682	2.26	4778	2.43	4868	2.58	4956	2.74								
2124	3600	4588	2.03	4682	2.18	4780	2.35	4870	2.52	4962	2.69												
2242	3800	4788	2.28	4882	2.46																		

12 1/4 SISW	WHEEL	13-7/32 in. diameter	OUTLET	12 x 10-11/16 in. inside	.88 sq. ft. inside area	MAXIMUM BHP = .077 (RPM)³ 1000
	CLASS I – RPM 4046			CLASS II – RPM 4280		TIP SPEED, fpm = 3.46 x RPM

CFM	OV FPM	1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/4" SP		1-1/2" SP		1-3/4" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
440	500	684	.02																				
528	600	743	.03																				
616	700	810	.04																				
704	800	880	.05																				
792	900	953	.06																				
880	1000	1027	.07																				
968	1100	1104	.09																				
1056	1200	1183	.11																				
1144	1300	1263	.14																				
1232	1400	1344	.16																				
1320	1500	1426	.20																				
1408	1600	1511	.23																				
1496	1700	1594	.27																				
1584	1800	1678	.31																				
1672	1900	1762	.36																				
1760	2000	1846	.41																				
1936	2200	2017	.54																				
2112	2400	2188	.68																				
2288	2600	2359	.85																				
2464	2800	2536	1.05																				
1320	1500	2534	1.19																				
1408	1600	2566	1.26																				
1496	1700	2605	1.33																				
1584	1800	2644	1.40																				
1672	1900	2689	1.49																				
1760	2000	2737	1.58																				
1936	2200	2849	1.79																				
2112	2400	2974	2.03																				
2288	2600	3107	2.30																				
2464	2800	3241	2.60																				
2640	3000	3378	2.93																				
2816	3200	3519	3.29																				
2992	3400	3664	3.69																				
3168	3600	3812	4.13																				
3344	3800	3960	4.60																				
3520	4000	4108	5.10																				

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

13 1/2 SISW	WHEEL	14-9/16 in. diameter	OUTLET	13-1/4 x 11-3/4 in. inside	1.07 sq. ft. inside area	MAXIMUM BHP = .125 (RPM)³ 1000
	CLASS I – RPM 3675			CLASS II – RPM 3884		TIP SPEED, fpm = 3.81 x RPM

CFM	OV FPM	1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/4" SP		1-1/2" SP		1-3/4" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
535	500	621	.03																				
642	600	674	.03																				
749	700	735	.04																				
856	800	799	.06																				
963	900	865	.07																				
1070	1000	932	.09																				
1177	1100	1002	.11																				
1284	1200	1073	.14																				
1391	1300	1146	.17																				
1498	1400	1220	.20																				
1605	1500	1294	.24																				
1712	1600	1371	.28																				
1819	1700	1446	.33																				
1926	1800	1523	.38																				
2033	1900	1599	.44																				
2140	2000	1675	.50																				
2247	2100	1750	.56																				
2354	2200	1830	.65																				
2461	2300	1905	.73																				
2568	2400	1985	.83																				
2675	2500	2060	.93																				
2782	2600	2141	1.03																				
2889	2700	2221	1.13																				
2996	2800	2301	1.23																				
3103	2900	2381	1.33																				
3210	3000	2461	1.43																				
3317	3100	2541	1.53																				
3424	3200	2621	1.63																				
3531	3300	2701	1.73																				
3638	3400	2781	1.83																				
3745	3500	2861	1.93																				
3852	3600	2941	2.03																				
3959	3700	3021	2.13																				
4066	3800	3101	2.23																				
4173	3900	3181	2.33																				
4280	4000	3261	2.43																				

NOTE: Sizes 12" and 13 1/2" SISW not recommended

Performances shown is for installation type B: Free inlet, ducted outlet. Power ratings (RHP) do not include drive losses

WHEEL	16-3/16 in. diameter	OUTLET	14-5/8x13-1/16 in. inside	1.32 sq. ft. inside area	MAXIMUM BHP = $.212 \left(\frac{\text{RPM}}{1000}\right)^3$	15 SISW
CLASS I – RPM 3302			CLASS II – RPM 3586		TIP SPEED, fpm = 4.24 x RPM	

CFM	OV FPM	1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/4" SP		1-1/2" SP		1-3/4" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
660	500	559	.03																				
792	600	607	.04	752	.08																		
924	700	662	.06	787	.10																		
1056	800	719	.07	834	.12	942	.17																
1188	900	778	.09	887	.14	983	.20	1080	.26														
1320	1000	839	.11	942	.17	1031	.23	1118	.29	1205	.36	1290	.44										
1452	1100	902	.14	998	.20	1085	.27	1164	.33	1242	.40	1321	.48	1400	.56								
1584	1200	966	.17	1057	.24	1139	.31	1214	.38	1287	.45	1359	.53	1432	.61	1504	.70						
1716	1300	1031	.21	1117	.28	1196	.35	1268	.43	1336	.50	1402	.58	1469	.67	1536	.76	1668	.95				
1848	1400	1098	.25	1178	.33	1253	.40	1323	.48	1389	.56	1451	.64	1513	.73	1575	.82	1700	1.02				
1980	1500	1165	.30	1240	.38	1312	.46	1379	.54	1444	.63	1504	.72	1562	.80	1619	.90	1735	1.10	1851	1.31		
2112	1600	1234	.35	1304	.44	1373	.52	1437	.61	1499	.70	1558	.79	1613	.89	1667	.98	1775	1.18	1885	1.40	1994	1.64
2244	1700	1302	.41	1369	.50	1433	.59	1496	.69	1556	.78	1613	.88	1668	.98	1718	1.07	1820	1.28	1923	1.50	2025	1.74
2376	1800	1370	.47	1434	.57	1495	.67	1557	.77	1613	.87	1669	.97	1722	1.07	1773	1.17	1869	1.39	1966	1.61	2063	1.85
2508	1900	1439	.54	1500	.65	1559	.75	1617	.86	1673	.96	1725	1.07	1778	1.17	1828	1.28	1921	1.50	2012	1.73	2104	1.97
2640	2000	1508	.62	1568	.73	1623	.84	1678	.95	1733	1.06	1783	1.17	1834	1.28	1882	1.40	1976	1.63	2062	1.86	2150	2.11
2904	2200	1647	.81	1702	.93	1753	1.05	1803	1.17	1853	1.29	1904	1.41	1950	1.53	1996	1.65	2084	1.90	2169	2.15	2248	2.41
3168	2400	1787	1.02	1839	1.15	1885	1.28	1931	1.41	1978	1.55	2024	1.68	2070	1.82	2114	1.95	2197	2.21	2278	2.48	2356	2.76
3432	2600	1927	1.28	1975	1.42	2020	1.56	2063	1.70	2106	1.84	2148	1.99	2190	2.13	2233	2.28	2313	2.56	2390	2.85	2466	3.14
3696	2800	2071	1.58	2115	1.73	2156	1.88	2195	2.03	2236	2.18	2275	2.33	2315	2.49	2355	2.64	2432	2.96	2505	3.26	2578	3.57
CFM	OV FPM	4" SP		4-1/2" SP		5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP	
1980	1500	2070	1.78																				
2112	1600	2096	1.89	2199	2.13																		
2244	1700	2128	1.99	2225	2.25	2319	2.52																
2376	1800	2159	2.10	2256	2.37	2346	2.64	2435	2.92														
2508	1900	2196	2.23	2288	2.50	2378	2.78	2469	3.07	2549	3.36	2712	3.98										
2640	2000	2235	2.36	2324	2.64	2410	2.92	2497	3.22	2578	3.52	2737	4.13	2889	4.81								
2904	2200	2327	2.68	2406	2.96	2484	3.25	2564	3.55	2644	3.86	2799	4.51	2945	5.18	3085	5.90						
3168	2400	2429	3.04	2502	3.32	2573	3.62	2645	3.93	2718	4.25	2863	4.91	3007	5.62	3143	6.35	3273	7.10	3405	7.89		
3432	2600	2537	3.45	2605	3.75	2671	4.05	2738	4.37	2805	4.69	2938	5.37	3072	6.08	3207	6.85	3335	7.63	3458	8.42	3581	9.25
3696	2800	2647	3.89	2715	4.22	2778	4.54	2840	4.86	2902	5.19	3026	5.89	3150	6.62	3275	7.39	3399	8.19	3522	9.03		
3960	3000	2759	4.38	2825	4.72	2887	5.07	2949	5.42	3007	5.76	3122	6.47	3237	7.22	3353	7.99	3471	8.82	3586	9.65		
4224	3200	2874	4.93	2937	5.29	2998	5.65	3059	6.01	3116	6.39	3226	7.12	3335	7.88	3442	8.68	3550	9.50				
4488	3400	2992	5.54	3052	5.90	3111	6.28	3169	6.66	3225	7.05	3335	7.84	3437	8.62	3540	9.43						
4752	3600	3113	6.19	3170	6.58	3225	6.97	3282	7.37	3338	7.78	3444	8.60	3546	9.43								
5016	3800	3234	6.90	3291	7.32	3344	7.73	3397	8.14	3451	8.56	3555	9.42										
5280	4000	3355	7.64	3412	8.11	3464	8.55	3518	8.99	3567	9.41												

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

WHEEL	17-13/16 in.	OUTLET	16 x 14-3/8 in. inside	1.59 sq. ft. inside area	MAXIMUM BHP = $.341 \left(\frac{\text{RPM}}{1000}\right)^3$	16 1/2 SISW
CLASS I – RPM 2992			CLASS II – RPM 3509		TIP SPEED, fpm = 4.66 x RPM	

CFM	OV FPM	1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/4" SP		1-1/2" SP		1-3/4" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
795	500	508	.04																				
954	600	552	.05	684	.10																		
1113	700	601	.07	716	.12																		
1272	800	653	.09	758	.14	857	.21																
1431	900	708	.11	806	.17	894	.24	981	.31														
1590	1000	762	.14	856	.21	938	.28	1016	.35	1096	.44	1173	.53										
1749	1100	820	.17	907	.25	986	.32	1058	.40	1129	.49	1201	.58	1272	.68								
1908	1200	878	.21	961	.29	1036	.37	1104	.46	1170	.54	1235	.64	1301	.74	1367	.85						
2067	1300	938	.25	1016	.34	1087	.43	1153	.52	1215	.61	1275	.71	1336	.81	1396	.92	1516	1.15				
2226	1400	998	.30	1071	.40	1139	.49	1203	.58	1263	.68	1319	.78	1376	.89	1431	1.00	1545	1.24				
2385	1500	1059	.36	1127	.46	1193	.56	1254	.66	1313	.76	1367	.87	1419	.98	1471	1.09	1578	1.33	1683	1.59		
2544	1600	1122	.42	1186	.53	1248	.64	1307	.74	1363	.85	1416	.96	1466	1.07	1515	1.19	1613	1.43	1713	1.70	1812	1.98
2703	1700	1183	.49	1244	.61	1303	.72	1360	.83	1414	.95	1466	1.06	1516	1.18	1562	1.30	1655	1.55	1748	1.82	1841	2.10
2862	1800	1246	.57	1304	.69	1359	.81	1415	.93	1466	1.05	1517	1.17	1566	1.30	1612	1.42	1699	1.68	1787	1.95	1875	2.24
3021	1900	1308	.66	1364	.79	1417	.91	1470	1.04	1520	1.17	1568	1.29	1616	1.42	1661	1.55	1746	1.82	1829	2.10	1912	2.39
3180	2000	1370	.76	1424	.89	1475	1.02	1525	1.15	1575	1.29	1621	1.42	1667	1.56	1711	1.69	1796	1.97	1875	2.25	1954	2.55
3498	2200	1497	.98	1547	1.12	1593	1.27	1639	1.41	1685	1.56	1731	1.71	1773	1.85	1814	2.00	1895	2.30	1972	2.61	2044	2.92
3816	2400	1624	1.24	1672	1.40	1713	1.56	1756	1.71	1798	1.88	1840	2.03	1882	2.20	1921	2.36	1997	2.68	2071	3.01	2142	3.34
4134	2600	1751	1.55	1795	1.72	1836	1.89	1875	2.06	1915	2.23	1953	2.41	1991	2.58	2030	2.76	2102	3.10	2173	3.45	2241	3.81
4452	2800	1883	1.91	1923	2.00	1960	2.28	1996	2.46	2033	2.64	2068	2.83	2104	3.02	2140	3.20	2211	3.59	2277	3.95	2343	4.33
CFM	OV FPM	4" SP		4-1/2" SP		5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2385	1500	1881	2.17																				
2544	1600	1905	2.29	1999	2.57																		
2703	1700	1934	2.41	2022	2.72	2107	3.05																
2862	1800	1963	2.55	2051	2.87	2133	3.20	2213	3.54														
3021	1900	1996	2.70	2079	3.02	2162	3.37	2244	3.72	2317	4.06	2465	4.83										
3180	2000	2032	2.86	2112	3.20	2191	3.54	2270	3.90	2344	4.27	2488	5.02	2626	5.83								
3498	2200	2115	3.24	2187	3.58	2258	3.93	2331	4.30	2403	4.67	2544	5.47	2676	6.29	2804	7.16						
3816	2400	2208	3.68	2274	4.02	2339	4.39	2405	4.76	2471	5.15	2602	5.95	2734	6.81	2858	7.70	2976	8.61	3095	9.58	3215	10.21
4134	2600	2207	3.18	2268	4.54	2428	4.91	2489	5.29	2549	5.69	2671	6.51	2793	7.37	2915	8.30	3031	9.24	3143	10.21	3255	11.21
4452	2800	2406	4.71	2468	5.11	2526	5.50	2582	5.89	2638	6.29	2751	7.14	2863	8.02	2977	8.95	3090	9.92	3201	10.93	3307	11.97
4770	3000	2508	5.31	2568	5.72	2624	6.14	2681	6.56	2734	6.98	2838	7.84	2943	8.75	3048	9.68	3155	10.68	3260	11.69	3365	12.77
5068	3200	2613	5.97	2670	6.40	2725	6.84	2780	7.28	2832	7.74	2932	8.63	3031	9.55	3129	10.52	3227	11.50	3328	12.56	3426	13.62
5406	3400	2720	6.70	2774	7.14	2828	7.61	2881	8.07	2932	8.54	3031	9.50	3125	10.44	3218	11.42	3310	12.45	3402	13.50	3497	14.59
5724	3600	2830	7.50	2882	7.97	2932	8.44	2984	8.93	3034	9.42	3131	10.41	3224	11.42	3311	12.43	3399	13.46	3487	14.54		
6042	3800	2940	8.36	2992	8.87	3040	9.36	3088	9.85	3137	10.36	3232	11.40	3322	12.47	3411	13.53	3493	14.59				
6360	4000	3050	9.25	3102	9.82	3149	10.35	3198	10.88	3242	11.39	3334	12.48	3423	13.57	3509	14.70						

18 1/4
SISW

WHEEL

19-11/16 in.
diameter

OUTLET

17-13/16x15-7/8 in.
inside

1.95 sq. ft.
inside area

MAXIMUM BHP = .566 (RPM)³
1000

CLASS I – RPM 2706

CLASS II – RPM 3173

TIP SPEED, fpm = 5.15 x RPM

CFM	OV FPM	1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/4" SP		1-1/2" SP		1-3/4" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
975	500	459	.05																				
1170	600	499	.07	618	.13																		
1365	700	544	.09	647	.15																		
1560	800	591	.11	685	.18	775	.26																
1755	900	640	.14	729	.21	808	.29	887	.39														
1950	1000	689	.17	774	.25	848	.34	919	.43	991	.54	1060	.65										
2145	1100	741	.21	820	.30	891	.40	966	.49	1021	.60	1086	.71	1150	.83								
2340	1200	794	.26	869	.36	936	.46	998	.56	1058	.67	1117	.78	1177	.91	1236	1.04						
2535	1300	848	.31	918	.42	983	.52	1042	.63	1098	.75	1152	.87	1207	.99	1263	1.12	1371	1.41				
2730	1400	902	.37	968	.49	1030	.60	1087	.72	1142	.84	1193	.96	1244	1.09	1294	1.22	1397	1.51				
2925	1500	957	.44	1019	.56	1079	.69	1134	.81	1187	.94	1236	1.06	1283	1.19	1330	1.33	1426	1.63	1522	1.95		
3120	1600	1014	.52	1072	.65	1128	.78	1181	.91	1232	1.04	1281	1.18	1326	1.31	1370	1.46	1459	1.75	1549	2.08	1638	2.43
3315	1700	1070	.60	1125	.74	1178	.88	1230	1.02	1279	1.16	1326	1.30	1371	1.45	1412	1.59	1496	1.90	1581	2.23	1665	2.57
3510	1800	1126	.70	1179	.86	1229	.99	1279	1.14	1372	1.29	1372	1.44	1416	1.59	1457	1.74	1536	2.05	1616	2.39	1695	2.74
3705	1900	1183	.81	1233	.96	1281	1.12	1329	1.27	1375	1.43	1418	1.58	1461	1.74	1502	1.90	1579	2.23	1654	2.57	1729	2.92
3900	2000	1239	.92	1287	1.09	1334	1.25	1379	1.41	1424	1.58	1465	1.74	1508	1.90	1547	2.07	1624	2.41	1695	2.76	1767	3.13
4290	2200	1354	1.20	1399	1.37	1440	1.55	1482	1.73	1523	1.91	1565	2.09	1603	2.27	1640	2.45	1713	2.82	1783	3.19	1848	3.57
4680	2400	1469	1.52	1512	1.71	1549	1.90	1587	2.10	1626	2.30	1663	2.49	1701	2.69	1737	2.89	1806	3.28	1872	3.68	1936	4.09
5070	2600	1583	1.89	1623	2.11	1660	2.31	1695	2.52	1731	2.73	1765	2.95	1800	3.16	1835	3.38	1901	3.79	1965	4.22	2026	4.66
5460	2800	1702	2.34	1738	2.56	1772	2.78	1804	3.01	1838	3.23	1870	3.46	1902	3.69	1935	3.92	1999	4.39	2059	4.83	2118	5.30
CFM	OV FPM	4" SP		4-1/2" SP		5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2925	1500	1700	2.64																				
3120	1600	1722	2.79	1807	3.15																		
3315	1700	1748	2.95	1828	3.33	1906	3.74																
3510	1800	1775	3.12	1854	3.51	1928	3.92	2001	4.33														
3705	1900	1805	3.31	1880	3.70	1955	4.12	2029	4.55	2095	4.99	2229	5.91										
3900	2000	1837	3.51	1910	3.91	1981	4.33	2062	4.77	2119	5.23	2249	6.13	2375	7.13								
4290	2200	1912	3.97	1977	4.38	2042	4.81	2108	5.26	2173	5.72	2300	6.69	2420	7.69	2535	8.75						
4680	2400	1996	4.50	2056	4.92	2114	5.37	2174	5.82	2234	6.30	2353	7.27	2471	8.33	2583	9.42	2690	10.52	2798	11.65		
5070	2600	2085	5.11	2141	5.55	2195	6.00	2251	6.47	2305	6.96	2415	7.96	2525	9.02	2636	10.15	2741	11.30	2842	12.47	2943	13.69
5460	2800	2175	5.77	2231	6.25	2283	6.72	2334	7.21	2385	7.70	2487	8.73	2589	9.81	2692	10.95	2794	12.14	2894	13.37	2990	14.57
5850	3000	2267	6.50	2322	7.00	2373	7.52	2424	8.03	2471	8.54	2566	9.59	2661	10.70	2766	11.84	2863	13.06	2947	14.30	3043	15.82
6240	3200	2362	7.30	2414	7.83	2464	8.37	2514	8.91	2561	9.47	2651	10.55	2741	11.68	2829	12.87	2918	14.07	3009	15.36	3098	16.66
6630	3400	2459	8.20	2508	8.74	2557	9.30	2604	9.87	2651	10.45	2741	11.82	2825	12.78	2909	13.97	2993	15.23	3078	16.51	3161	17.85
7020	3600	2559	9.17	2606	9.76	2651	10.32	2698	10.92	2743	11.52	2830	12.74	2914	13.98	2994	15.21	3073	16.47	3153	17.79		
7410	3800	2658	10.22	2706	10.85	2749	11.46	2792	12.06	2838	12.68	2922	13.95	3004	15.25	3083	16.55	3158	17.85				
7800	4000	2757	11.32	2804	12.02	2847	12.67	2891	13.32	2931	13.94	3014	15.26	3096	16.60	3173	17.98						

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

20
SISW

WHEEL

21-9/16 in.
diameter

OUTLET

19-7/16x17-3/8 in.
inside

2.34 sq. ft.
inside area

MAXIMUM BHP = .894 (RPM)³
1000

CLASS I – RPM 2469

CLASS II – RPM 2895

TIP SPEED, fpm = 5.65 x RPM

CFM	OV FPM	1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/4" SP		1-1/2" SP		1-3/4" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1170	500	419	.06																				
1404	600	455	.08	564	.15																		
1638	700	496	.10	590	.18																		
1872	800	539	.13	625	.21	707	.31																
2106	900	584	.17	665	.26	737	.35	810	.46														
2340	1000	629	.21	706	.31	774	.41	839	.52	904	.65	968	.78										
2574	1100	676	.26	748	.36	813	.48	873	.59	932	.72	991	.85	1050	1.00								
2808	1200	725	.31	793	.43	854	.55	911	.67	965	.80	1019	.94	1074	1.09	1128	1.25						
3042	1300	774	.37	838	.50	897	.63	951	.76	1002	.90	1052	1.04	1102	1.19	1152	1.35	1251	1.69				
3276	1400	823	.45	883	.58	940	.72	992	.86	1042	1.01	1088	1.15	1135	1.31	1181	1.47	1275	1.82				
3510	1500	873	.53	930	.68	984	.83	1035	.97	1083	1.12	1128	1.28	1171	1.44	1214	1.60	1302	1.96	1389	2.34		
3744	1600	925	.62	978	.78	1030	.94	1078	1.09	1125	1.25	1169	1.42	1210	1.58	1250	1.75	1331	2.11	1414	2.50	1495	2.91
3978	1700	976	.73	1027	.89	1075	1.06	1122	1.23	1167	1.39	1210	1.56	1251	1.74	1289	1.91	1365	2.28	1442	2.68	1519	3.09
4212	1800	1028	.84	1076	1.02	1121	1.19	1167	1.37	1210	1.55	1252	1.73	1292	1.91	1330	2.09	1402	2.47	1474	2.87	1547	3.30
4446	1900	1079	.97	1125	1.16	1169	1.34	1213	1.53	1254	1.72	1294	1.90	1333	2.09	1371	2.29	1441	2.67	1509	3.08	1578	3.51
4680	2000	1131	1.11	1175	1.31	1217	1.50	1258	1.69	1300	1.90	1337	2.09	1376	2.29	1412	2.49	1482	2.90	1547	3.31	1612	3.75
5148	2200	1235	1.44	1276	1.65	1314	1.86	1352	2.08	1390	2.29	1428	2.52	1463	2.73	1497	2.94	1563	3.38	1627	3.84	1686	4.29
5616	2400	1340	1.83	1379	2.06	1414	2.29	1449	2.52	1483	2.76	1518	2.99	1553	3.23	1585	3.47	1648	3.94	1708	4.42	1767	4.92
6084	2600	1445	2.28	1481	2.53	1515	2.78	1547	3.03	1580	3.28	1611	3.54	1643	3.79	1675	4.06	1735	4.56	1793	5.07	1849	5.60
6552	2800	1553	2.81	1586	3.08	1617	3.35	1646	3.61	1677	3.88	1706	4.16	1736	4.43	1766	4.70	1824	5.27	1879	5.80	1933	6.36
CFM	OV FPM	4" SP		4-1/2" SP		5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3510	1500	1552	3.17																				
3744	1600	1572	3.35	1649	3.79																		
3978	1700	1596	3.54	1669	4.01	1739	4.50																
4212	1800	1619	3.74	1692	4.22	1760	4.71	1826	5.20														
4446	1900	1647	3.97	1716	4.45	1784	4.95	1852	5.46	1912	5.99	2034	7.10										
4680	2000	1676	4.21	1743	4.70	1807	5.20	1872	5.73	1934	6.28	2053	7.36	2167	8.52								
5148	2200	1745	4.77	1804	5.26	1863	5.78	1923	6.31	1983	6.87	2099	8.03	2208	9.24	2314	10.46						
5616	2400	1822	5.41	1876	5.91	1929	6.45	1984	6.99	2038	7.56	2147	8.74	2255	10.01	2358	11.25	2455	12.60	2554	13.98		
6084	2600	1903	6.14	1954	6.67	2003	7.21	2054	7.77	2103	8.35	2204	9.56	2304	10.83	2405	12.19	2501	13.54	2594	14.98	2686	16.45
6552	2800	1985	6.93	2036	7.51	2084	8.08	2130	8.65	2176	9.25	2269	10.49	2362	11.78	2456	13.15	2549	14.58	2641	16.06	2729	17.48
7020	3000	2069	7.80	2119	8.41	2165	9.03	2212	9.64	2255	10.25	2342	11.52	2428	12.85	2515	14.22	2603	15.69	2689	17.17	2776	18.76
7488	3200	2155	8.77	2203	9.41	2248	10.05	2294	10.70	2337	11.37	2419	12.68	2501	14.03	2582	15.45	2663	16.90	2746	18.45	2827	20.01
7956	3400	2244	9.85	2289	10.50	2333	11.18	2377	11.86	2419	12.55	2501	13.95	2578	15.34	2655	16.78	2731	18.29	2807	19.83	2885	21.44
8424	3600	2335	11.02	2378	11.72	2419	12.40	2462	13.12	2503	13.84	2583	15.30	2659	16.78	2732	18.26	2805	19.78	2877	21.37		
8892	3800	2426	12.28	2468	13.03	2508	13.76	2548	14.48	2588	15.23	2666	16.75	2741	18.32	2814	19.87	2882	21.43				
9360	4000	2516	13.59	2559	14.43	2598	15.21	2638	15.99	2675	16.74	2751	18.33	2824	19.93	2895	21.60						

WHEEL	24 in. diameter	OUTLET	21-5/8x19-3/8 in. inside	2.90 sq. ft. inside area	MAXIMUM BHP = $1.37 \left(\frac{\text{RPM}}{1000} \right)^3$	22 1/4 SISW
CLASS I RPM 2155		CLASS II RPM 2483	CLASS III RPM 2910		TIP SPEED, fpm = 6.28 x RPM	

CFM	OV FPM	1/2 SP		3/4 SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2610	900	590	.29	660	.40	725	.51	842	.77												
2900	1000	624	.34	690	.46	751	.58	864	.85	964	1.14										
3190	1100	661	.39	722	.52	780	.65	887	.94	985	1.25	1074	1.58								
3480	1200	699	.46	756	.59	810	.74	913	1.04	1008	1.36	1095	1.70	1175	2.06	1251	2.44				
3770	1300	738	.53	792	.67	843	.83	941	1.14	1032	1.48	1117	1.83	1196	2.21	1270	2.60	1340	3.02		
4060	1400	776	.60	830	.77	878	.92	971	1.26	1058	1.61	1141	1.98	1218	2.37	1291	2.78	1360	3.20	1426	3.64
4350	1500	814	.68	868	.86	914	1.03	1002	1.39	1086	1.76	1166	2.14	1241	2.54	1313	2.96	1381	3.40	1446	3.85
4640	1600	852	.77	907	.97	952	1.15	1035	1.52	1116	1.91	1193	2.31	1266	2.73	1336	3.16	1403	3.61	1466	4.08
4930	1700	891	.87	945	1.09	990	1.29	1070	1.67	1147	2.08	1221	2.50	1292	2.93	1360	3.37	1426	3.84	1488	4.31
5220	1800	932	.98	983	1.21	1029	1.42	1106	1.83	1180	2.25	1251	2.69	1320	3.14	1386	3.60	1450	4.08	1512	4.57
5510	1900	973	1.10	1021	1.34	1067	1.57	1144	2.01	1214	2.44	1282	2.90	1349	3.37	1413	3.85	1476	4.34	1536	4.84
5800	2000	1016	1.23	1060	1.47	1105	1.73	1181	2.19	1249	2.65	1315	3.12	1379	3.61	1442	4.11	1502	4.61	1561	5.13
6380	2200	1102	1.54	1139	1.79	1181	2.06	1258	2.60	1323	3.10	1383	3.60	1443	4.12	1502	4.66	1559	5.20	1615	5.76
6960	2400	1191	1.91	1223	2.16	1259	2.44	1335	3.05	1399	3.61	1456	4.15	1512	4.70	1567	5.27	1621	5.85	1674	6.44
7540	2600	1281	2.34	1309	2.60	1340	2.89	1411	3.54	1476	4.18	1532	4.77	1585	5.36	1636	5.95	1687	6.57	1737	7.19
8120	2800	1372	2.84	1397	3.11	1424	3.40	1487	4.08	1552	4.79	1609	5.45	1660	6.09	1709	6.72	1756	7.36	1803	8.01
8700	3000	1463	3.41	1486	3.69	1510	3.99	1566	4.68	1628	5.44	1686	6.19	1737	6.88	1784	7.56	1829	8.24	1873	8.92
9280	3200	1555	4.06	1576	4.35	1598	4.66	1648	5.36	1705	6.15	1762	6.97	1814	7.74	1860	8.48	1904	9.20	1947	9.92
9860	3400	1647	4.79	1667	5.10	1687	5.42	1732	6.13	1783	6.93	1838	7.80	1890	8.66	1937	9.47	1981	10.25	2022	11.01
10440	3600	1740	5.61	1758	5.93	1777	6.27	1818	6.99	1864	7.80	1914	8.70	1966	9.62	2014	10.52	2058	11.36	2098	12.19
11020	3800	1833	6.52	1850	6.86	1867	7.21	1905	7.94	1946	8.77	1993	9.68	2042	10.65	2090	11.62	2134	12.55	2175	13.44
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4930	1700	1549	4.81	1607	5.31	1663	5.83	1769	6.91												
5220	1800	1571	5.07	1628	5.59	1683	6.13	1789	7.23												
5510	1900	1594	5.36	1650	5.89	1705	6.44	1809	7.57	1907	8.74										
5800	2000	1618	5.66	1673	6.20	1727	6.76	1830	7.92	1927	9.12	2020	10.37								
6380	2200	1670	6.32	1723	6.89	1775	7.47	1875	8.68	1970	9.93	2061	11.23	2148	12.57	2231	13.95				
6960	2400	1726	7.04	1777	7.65	1827	8.26	1923	9.51	2015	10.82	2104	12.17	2189	13.57	2271	15.00	2351	16.47	2427	17.97
7540	2600	1786	7.83	1834	8.47	1882	9.12	1975	10.44	2064	11.80	2151	13.20	2234	14.64	2314	16.13	2392	17.65	2467	19.21
8120	2800	1850	8.68	1896	9.37	1942	10.06	2031	11.45	2117	12.87	2200	14.32	2281	15.82	2360	17.35	2436	18.93	2510	20.54
8700	3000	1918	9.62	1961	10.33	2005	11.06	2090	12.53	2173	14.03	2253	15.55	2332	17.09	2408	18.68	2483	20.30	2555	21.96
9280	3200	1988	10.65	2030	11.39	2071	12.15	2152	13.69	2232	15.27	2310	16.86	2386	18.48	2460	20.12	2532	21.79	2603	23.50
9860	3400	2062	11.77	2101	12.55	2140	13.33	2218	14.94	2294	16.58	2369	18.26	2442	19.95	2514	21.66	2585	23.40	2654	25.16
10440	3600	2137	13.00	2175	13.80	2213	14.62	2286	16.28	2359	17.99	2431	19.74	2502	21.51	2572	23.31	2640	25.11	2707	26.94
11020	3800	2214	14.31	2251	15.16	2287	16.02	2358	17.74	2427	19.51	2496	21.32	2564	23.16	2632	25.03	2698	26.92	2763	28.83
11600	4000	2291	15.70	2328	16.61	2363	17.51	2431	19.31	2498	21.13	2564	23.01	2629	24.92	2694	26.86	2758	28.82	2821	30.81
12180	4200	2368	17.17	2405	18.15	2440	19.11	2506	21.00	2571	22.89	2634	24.82	2697	26.79	2759	28.79	2821	30.83	2882	32.89

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

WHEEL	26-7/16 in. diameter	OUTLET	23-13/16x21-5/16 in. inside	3.52 sq. ft. inside area	MAXIMUM BHP = $2.22 \left(\frac{\text{RPM}}{1000} \right)^3$	24 1/2 SISW
CLASS I RPM 2015		CLASS II RPM 2300	CLASS III RPM 2643		TIP SPEED, fpm = 6.92 x RPM	

CFM	OV FPM	1/2 SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3168	900	536	.35	600	.48	659	.62	765	.93												
3520	1000	567	.41	626	.55	682	.70	784	1.03	875	1.39										
3872	1100	601	.48	656	.63	708	.79	806	1.14	895	1.51	975	1.91								
4224	1200	636	.55	687	.72	736	.89	830	1.26	915	1.65	994	2.06	1068	2.50	1136	2.96				
4576	1300	671	.64	720	.82	766	1.00	855	1.39	938	1.79	1015	2.23	1086	2.68	1154	3.16	1217	3.66		
4928	1400	705	.73	754	.93	798	1.12	882	1.53	962	1.96	1036	2.40	1106	2.88	1173	3.37	1235	3.88	1295	4.42
5280	1500	740	.83	789	1.05	831	1.25	911	1.68	987	2.13	1059	2.60	1128	3.08	1193	3.59	1254	4.12	1313	4.67
5632	1600	775	.94	824	1.18	865	1.40	941	1.85	1014	2.32	1084	2.81	1150	3.31	1214	3.83	1274	4.38	1332	4.94
5984	1700	810	1.06	859	1.32	900	1.56	972	2.03	1042	2.52	1109	3.03	1174	3.55	1236	4.09	1295	4.65	1352	5.23
6336	1800	847	1.19	893	1.47	935	1.73	1005	2.22	1072	2.74	1137	3.27	1199	3.82	1259	4.37	1317	4.95	1373	5.54
6688	1900	885	1.34	928	1.62	970	1.91	1039	2.44	1103	2.97	1165	3.52	1225	4.09	1284	4.67	1341	5.26	1395	5.87
7040	2000	923	1.50	963	1.79	1005	2.10	1074	2.66	1135	3.21	1195	3.79	1253	4.38	1310	4.98	1365	5.60	1418	6.22
7444	2200	1002	1.87	1036	2.17	1074	2.51	1143	3.16	1202	3.77	1257	4.37	1311	5.01	1365	5.66	1417	6.32	1467	6.99
8448	2400	1083	2.32	1111	2.62	1144	2.97	1213	3.71	1271	4.39	1324	5.04	1374	5.71	1424	6.40	1473	7.10	1521	7.82
9152	2600	1164	2.85	1190	3.16	1218	3.51	1282	4.30	1341	5.08	1392	5.80	1440	6.51	1486	7.23	1532	7.97	1578	8.73
9856	2800	1247	3.45	1270	3.78	1294	4.13	1352	4.95	1411	5.82	1462	6.62	1509	7.39	1553	8.16	1596	8.93	1639	9.73
10560	3000	1330	4.15	1351	4.49	1373	4.85	1423	5.68	1480	6.61	1532	7.51	1578	8.36	1621	9.18	1662	10.00	1702	10.83
11264	3200	1414	4.94	1433	5.29	1453	5.67	1498	6.51	1549	7.47	1601	8.46	1648	9.40	1691	10.30	1730	11.17	1769	12.05
11968	3400	1498	5.82	1515	6.20	1534	6.59	1574	7.44	1620	8.42	1670	9.47	1718	10.52	1760	11.50	1800	12.44	1837	13.37
12672	3600	1582	6.82	1598	7.21	1615	7.61	1652	8.49	1694	9.47	1740	10.56	1787	11.69	1830	12.77	1870	13.80	1907	14.80
13376	3800	1666	7.93	1682	8.34	1698	8.76	1731	9.65	1769	10.65	1811	11.75	1856	12.93	1899	14.11	1940	15.24	1977	16.32
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5984	1700	1407	5.83	1459	6.45	1510	7.08	1607	8.39												
6336	1800	1427	6.16	1479	6.79	1529	7.43	1625	8.77												
6688	1900	1448	6.50	1499	7.15	1549	7.81	1643	9.18	1733	10.61										
7040	2000	1470	6.87	1520	7.53	1569	8.21	1662	9.61	1751	11.07	1835	12.58								
7444	2200	1517	7.66	1565	8.36	1612	9.06	1703	10.53	1789	12.05	1872	13.63	1951	15.26	2027	16.93				
8448	2400	1568	8.55	1614	9.28	1659	10.02	1747	11.55	1831	13.13	1911	14.77	1989	16.46	2063	18.20	2135	19.98	2205	21.81
9152	2600	1623	9.50	1667	10.29	1710	11.08	1794	12.68	1875	14.32	1954	16.02	2029	17.77	2102	19.57	2173	21.42	2241	23.31
9856	2800	1681	10.54	1723	11.37	1764	12.21	1845	13.90	1923	15.62	1999	17.38	2073	19.20	2144	21.06	2213	22.97	2280	24.92
10560	3000	1742	11.68	1782	12.55	1821	13.43	1899	15.22	1974	17.03	2047	18.87	2119	20.75	2188	22.67	2255	24.64	2321	26.66
11264	3200	1807	12.93	1844	13.83	1882	14.75	1955	16.62	2028	18.53	2098	20.47	2167	22.43	2235	24.42	2301	26.45	2365	28.53
11968	3400	1874	14.30	1909	15.24	1945	16.19	2015	18.14	2084	20.13	2152	22.17	2219	24.22	2284	26.30	2348	28.40	2411	30.54
12672	3600	1942	15.78	1977	16.76	2011	17.75	2078	19.77	2144	21.85	2209	23.96	2273	26.12	2336	28.28	2398	30.49	2459	32.70
13376	3800	2012	17.38	2046	18.41	2078	19.45	2142	21.54	2206	23.69	2268	25.88	2330	28.12	2391	30.39	2451	32.68	2510	34.99
14080	4000	2082	19.07	2115	20.18	2147	21.27	2209	23.45	2275	25.66	2330	27.94	2389	30.25	2448	32.61	2506	34.99	2563	37.40
14784	4200	2152	20.85	2185	22.04	2217	23.21	2278	25.50	2336	27.80	2394	30.14	2451	32.53	2507	34.96	2563	37.43	2619	39.93

27
SISW

WHEEL

29-1/8 in.
diameter

OUTLET

26-1/4x23-1/2 in.
inside

4.27 sq. ft.
inside area

MAXIMUM BHP = $3.60 \left(\frac{\text{RPM}}{1000} \right)^3$

CLASS I RPM 1829

CLASS II RPM 2087

CLASS III RPM 2398

TIP SPEED, fpm = $7.62 \times \text{RPM}$

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3843	900	486	.42	544	.58	597	.75	694	1.13												
4270	1000	515	.49	568	.67	619	.85	712	1.25	794	1.68										
4697	1100	545	.57	595	.76	642	.96	731	1.38	812	1.83	885	2.32								
5124	1200	576	.67	623	.87	668	1.08	753	1.52	830	2.00	902	2.50	969	3.04	1031	3.60	1104	4.44		
5551	1300	608	.77	653	.99	695	1.21	775	1.68	851	2.18	920	2.70	986	3.25	1047	3.83				
5978	1400	640	.89	684	1.12	724	1.36	800	1.85	872	2.37	940	2.92	1004	3.49	1064	4.09	1121	4.71	1175	5.36
6405	1500	671	1.01	716	1.27	754	1.52	826	2.04	895	2.59	961	3.15	1023	3.74	1082	4.36	1138	5.00	1191	5.67
6832	1600	702	1.14	747	1.43	785	1.70	853	2.24	920	2.81	983	3.41	1043	4.01	1101	4.65	1156	5.31	1208	6.00
7259	1700	735	1.28	779	1.60	816	1.89	882	2.46	945	3.06	1006	3.68	1065	4.31	1121	4.96	1175	5.65	1227	6.35
7686	1800	768	1.44	810	1.78	848	2.10	912	2.69	972	3.32	1031	3.96	1088	4.63	1142	5.30	1195	6.00	1246	6.72
8113	1900	802	1.62	841	1.96	879	2.31	942	2.95	1000	3.59	1057	4.27	1111	4.96	1165	5.66	1216	6.38	1266	7.12
8540	2000	837	1.81	873	2.17	911	2.54	974	3.23	1029	3.89	1083	4.59	1136	5.31	1188	6.04	1238	6.79	1286	7.55
8964	2200	908	2.27	939	2.63	973	3.04	1037	3.83	1090	4.56	1140	5.30	1189	6.07	1238	6.86	1285	7.66	1331	8.47
10248	2400	981	2.81	1008	3.18	1038	3.60	1100	4.49	1153	5.32	1200	6.11	1246	6.92	1291	7.76	1336	8.61	1379	9.49
11102	2600	1056	3.45	1078	3.82	1104	4.25	1163	5.21	1216	6.15	1263	7.02	1306	7.89	1348	8.76	1390	9.67	1431	10.59
11956	2800	1130	4.18	1151	4.57	1173	5.01	1226	6.00	1279	7.05	1326	8.03	1368	8.96	1408	9.89	1447	10.83	1486	11.80
12810	3000	1206	5.02	1224	5.43	1244	5.87	1291	6.88	1342	8.01	1389	9.11	1431	10.13	1470	11.13	1507	12.12	1544	13.13
13664	3200	1281	5.98	1299	6.41	1317	6.86	1358	7.89	1405	9.05	1452	10.26	1494	11.40	1533	12.48	1569	13.54	1604	14.60
14518	3400	1357	7.05	1374	7.50	1390	7.98	1427	9.02	1469	10.20	1514	11.48	1558	12.75	1596	13.94	1632	15.08	1666	16.21
15372	3600	1434	8.26	1449	8.73	1464	9.22	1498	10.29	1536	11.48	1578	12.80	1620	14.17	1660	15.48	1696	16.73	1729	17.94
16226	3800	1510	9.60	1524	10.09	1539	10.61	1569	11.69	1604	12.90	1642	14.24	1683	15.67	1722	17.10	1759	18.47	1793	19.79
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7259	1700	1276	7.08	1324	7.82	1370	8.59	1458	10.17												
7686	1800	1294	7.47	1342	8.23	1387	9.02	1474	10.65												
8113	1900	1313	7.88	1360	8.67	1405	9.47	1491	11.14	1572	12.87										
8540	2000	1333	8.33	1379	9.13	1423	9.95	1508	11.66	1588	13.43	1665	15.27								
8964	2200	1376	9.30	1420	10.14	1463	11.00	1545	12.77	1623	14.62	1698	16.54	1770	18.51	1839	20.54				
10248	2400	1422	10.37	1464	11.26	1505	12.16	1585	14.01	1661	15.93	1734	17.92	1804	19.97	1872	22.08	1937	24.25	2000	26.48
11102	2600	1472	11.53	1512	12.47	1551	13.43	1628	15.37	1701	17.37	1772	19.43	1841	21.56	1907	23.75	1971	25.99	2033	28.28
11956	2800	1524	12.79	1562	13.79	1600	14.80	1673	16.86	1744	18.95	1813	21.09	1880	23.29	1945	25.55	2007	27.86	2068	30.24
12810	3000	1580	14.16	1616	15.21	1652	16.28	1722	18.45	1790	20.66	1857	22.89	1922	25.17	1985	27.50	2046	29.89	2108	32.34
13664	3200	1638	15.67	1673	16.77	1707	17.88	1773	20.15	1839	22.48	1903	24.83	1966	27.21	2027	29.62	2087	32.08	2145	34.60
14518	3400	1699	17.33	1732	18.47	1764	19.63	1828	21.89	1890	24.41	1952	26.88	2013	29.38	2072	31.90	2130	34.45	2187	37.04
15372	3600	1761	19.13	1793	20.32	1823	21.52	1884	23.87	1944	26.49	2003	29.06	2062	31.67	2119	34.31	2175	36.97	2231	39.66
16226	3800	1824	21.06	1855	22.32	1885	23.58	1943	26.11	2000	28.72	2057	31.39	2113	34.10	2168	36.85	2223	39.64	2277	42.44
17080	4000	1888	23.11	1918	24.46	1947	25.79	2003	28.43	2058	31.11	2113	33.88	2167	36.69	2220	39.54	2273	42.44	2325	45.36
17934	4200	1951	25.28	1981	26.72	2010	28.13	2065	30.92	2118	33.70	2171	36.54	2222	39.44	2274	42.39	2325	45.39	2375	48.42

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

30
SISW

WHEEL

32-3/8 in.
diameter

OUTLET

29-3/16x26-1/8 in.
inside

5.27 sq. ft.
inside area

MAXIMUM BHP = $6.01 \left(\frac{\text{RPM}}{1000} \right)^3$

CLASS I RPM 1647

CLASS II RPM 1807

CLASS III RPM 2115

TIP SPEED, fpm = $8.48 \times \text{RPM}$

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5270	1000	458	.58	510	.80	552	1.01	626	1.46	699	1.96	769	2.52								
5797	1100	482	.68	533	.91	576	1.15	647	1.62	713	2.14	779	2.70	843	3.32						
6324	1200	507	.78	556	1.04	599	1.30	670	1.81	732	2.34	793	2.91	853	3.54	911	4.21				
6851	1300	534	.90	579	1.17	622	1.45	694	2.01	754	2.57	810	3.16	866	3.79	921	4.47	976	5.19		
7378	1400	563	1.03	603	1.32	645	1.62	718	2.22	777	2.82	831	3.43	883	4.07	935	4.76	986	5.49	1037	6.26
7905	1500	592	1.18	629	1.48	668	1.80	741	2.44	801	3.09	853	3.73	903	4.39	951	5.09	1000	5.83	1048	6.61
8432	1600	622	1.34	657	1.66	692	1.99	764	2.68	825	3.37	877	4.05	925	4.75	971	5.46	1016	6.20	1062	6.99
8959	1700	653	1.53	685	1.86	718	2.20	786	2.93	848	3.66	901	4.39	948	5.12	993	5.86	1036	6.62	1079	7.41
9486	1800	684	1.73	714	2.07	745	2.43	809	3.19	871	3.97	925	4.75	972	5.52	1016	6.29	1057	7.08	1098	7.88
10013	1900	716	1.95	744	2.31	773	2.69	833	3.48	894	4.30	948	5.11	996	5.93	1039	6.74	1080	7.56	1119	8.39
10540	2000	747	2.19	774	2.57	802	2.96	858	3.78	916	4.64	971	5.50	1019	6.36	1063	7.22	1104	8.08	1142	8.94
11594	2200	812	2.75	836	3.16	861	3.58	911	4.45	964	5.37	1016	6.32	1066	7.27	1111	8.22	1151	9.16	1189	10.10
12648	2400	877	3.40	900	3.84	922	4.29	968	5.23	1014	6.20	1063	7.22	1111	8.26	1157	9.29	1198	10.33	1237	11.36
13702	2600	943	4.16	964	4.63	984	5.11	1026	6.11	1069	7.14	1112	8.22	1157	9.32	1202	10.45	1244	11.57	1284	12.69
14756	2800	1009	5.04	1029	5.54	1048	6.05	1087	7.11	1126	8.20	1165	9.33	1206	10.50	1248	11.69	1290	12.90	1329	14.12
15810	3000	1076	6.04	1094	6.57	1112	7.12	1148	8.24	1185	9.39	1221	10.58	1259	11.80	1297	13.05	1336	14.34	1375	15.63
16864	3200	1143	7.18	1160	7.74	1177	8.32	1211	9.50	1245	10.71	1279	11.96	1313	13.24	1349	14.55	1385	15.89	1421	17.26
17918	3400	1210	8.45	1226	9.05	1242	9.66	1274	10.90	1306	12.18	1338	13.49	1370	14.82	1403	16.19	1436	17.59	1470	19.01
18972	3600	1278	9.88	1293	10.51	1308	11.15	1338	12.45	1368	13.79	1398	15.16	1429	16.56	1459	17.99	1490	19.44	1522	20.93
20026	3800	1346	11.47	1360	12.14	1374	12.80	1403	14.17	1431	15.57	1460	17.00	1488	18.46	1517	19.95	1546	21.46	1575	23.00
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8959	1700	1121	8.25	1164	9.11	1206	10.01	1289	11.91												
9486	1800	1138	8.72	1179	9.60	1219	10.51	1299	12.42	1377	14.45										
10013	1900	1158	9.25	1196	10.13	1235	11.05	1311	12.98	1386	15.03	1459	17.18								
10540	2000	1179	9.81	1216	10.71	1252	11.64	1325	13.58	1397	15.65	1468	17.83	1538	20.10						
11594	2200	1225	11.05	1260	12.00	1294	12.96	1360	14.94	1427	17.05	1493	19.27	1558	21.58	1622	24.00	1686	26.50		
12648	2400	1273	12.38	1307	13.41	1340	14.45	1403	16.53	1464	18.68	1525	20.93	1585	23.28	1646	25.73	1705	28.28	1764	30.91
13702	2600	1320	13.81	1355	14.92	1387	16.04	1449	18.27	1507	20.53	1564	22.83	1620	25.22	1676	27.70	1732	30.29	1788	32.86
14756	2800	1367	15.33	1402	16.53	1435	17.73	1497	20.13	1554	22.54	1609	24.96	1661	27.42	1714	29.94	1766	32.56	1818	35.26
15810	3000	1412	16.93	1448	18.23	1482	19.52	1544	22.09	1602	24.67	1655	27.24	1707	29.83	1757	32.45	1806	35.11	1854	37.84
16864	3200	1458	18.64	1493	20.02	1528	21.41	1591	24.16	1649	26.91	1703	29.65	1754	32.40	1803	35.16	1850	37.93	1896	40.75
17918	3400	1505	20.47	1539	21.93	1573	23.40	1637	26.34	1696	29.27	1751	32.18	1802	35.10	1850	38.02	1896	40.95	1941	43.88
18972	3600	1554	22.43	1586	23.97	1619	25.52	1682	28.63	1742	31.74	1798	34.84	1849	37.93	1898	41.01	1944	44.10	1988	47.20
20026	3800	1605	24.57	1636	26.15	1666	27.77	1728	31.04	1788	34.33	1844	37.61	1896	40.88	1945	44.14	1991	47.40	2036	50.66
21080	4000	1659	26.87	1687	28.52	1716	30.19	1775	33.60	1833	37.05	1889	40.51	1942	43.97	1992	47.40	2039	50.84	2083	54.27
22134	4200	1715	29.36	1741	31.06	1768	32.79	1823	36.31	1879	39.91	1934	43.54	1988	47.18	2038	50.81	2086	54.42		

HICAGO AIRFOIL CENTRIFUGAL FANS CLASS I - II - III



**40 1/4
SISW**

WHEEL

**43-7/16 in.
diameter**

OUTLET

**39-1/4x35-1/4 in.
outside**

**9.48 sq. ft.
inside area**

MAXIMUM BHP = 30.8 ($\frac{RPM}{1000}$)³

CLASS I RPM 903

CLASS II RPM 1179

CLASS III RPM 1486

TIP SPEED, fpm = 11.37 x RPM

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9480	1000	323	1.1	360	1.5	394	1.8														
10428	1100	340	1.3	376	1.7	408	2.1	470	3.0												
11376	1200	358	1.5	391	1.9	423	2.4	479	3.3												
12324	1300	378	1.7	408	2.1	439	2.6	492	3.6	544	4.7										
13272	1400	398	1.9	426	2.4	454	2.9	507	4.0	555	5.1	605	6.4								
14220	1500	418	2.2	445	2.7	471	3.3	523	4.4	568	5.5	613	6.8	662	8.2						
15168	1600	439	2.5	464	3.1	489	3.6	538	4.9	583	6.0	625	7.2	667	8.6	715	10.3				
16116	1700	460	2.8	484	3.4	507	4.0	554	5.3	599	6.6	639	7.8	678	9.2	719	10.7	764	12.5		
17064	1800	480	3.2	505	3.8	527	4.5	571	5.8	614	7.2	654	8.5	691	9.8	728	11.3	767	13.0		
18012	1900	501	3.6	525	4.3	547	4.9	588	6.3	630	7.8	669	9.2	705	10.5	740	12.0	776	13.6	813	15.5
18960	2000	522	4.0	546	4.7	567	5.4	606	6.9	646	8.4	685	9.9	721	11.3	754	12.8	787	14.4	821	16.1
20856	2200	564	5.0	587	5.8	608	6.6	644	8.1	680	9.7	716	11.4	752	13.1	784	14.7	815	16.2	845	17.9
22752	2400	607	6.1	629	7.0	649	7.9	684	9.6	717	11.3	750	13.0	783	14.9	815	16.7	846	18.5	875	20.2
24648	2600	651	7.4	671	8.4	691	9.3	725	11.2	756	13.0	785	14.9	816	16.8	847	18.8	877	20.8	906	22.7
26544	2800	695	9.0	714	10.0	732	11.0	766	13.0	796	15.0	824	17.0	852	19.0	880	21.1	909	23.2	937	25.4
28440	3000	739	10.7	757	11.8	774	12.8	808	15.1	837	17.2	864	19.3	889	21.4	915	23.6	942	25.9	969	28.2
30336	3200	784	12.7	801	13.8	817	14.9	849	17.3	878	19.6	904	21.9	929	24.1	953	26.4	977	28.7	1002	31.1
32232	3400	829	14.9	845	16.1	860	17.3	891	19.8	919	22.3	945	24.7	969	27.1	992	29.4	1015	31.9	1038	34.3
34128	3600	874	17.4	889	18.6	904	19.9	933	22.5	961	25.2	986	27.8	1010	30.3	1032	32.8	1053	35.3	1075	37.9
36024	3800	920	20.2	934	21.5	947	22.8	975	25.5	1002	28.3	1028	31.1	1051	33.8	1073	36.5	1093	39.1	1114	41.8
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18960	2000	857	18.1	896	20.1																
20856	2200	876	19.7	907	21.7	939	23.8														
22752	2400	903	21.9	930	23.8	958	25.8	1016	30.2												
24648	2600	933	24.6	959	26.4	985	28.3	1036	32.6	1089	37.3	1147	42.6								
26544	2800	964	27.5	990	29.5	1015	31.5	1062	35.6	1110	40.1	1158	45.1	1211	50.6						
28440	3000	995	30.5	1021	32.7	1046	35.0	1092	39.2	1137	43.6	1181	48.4	1226	53.7	1273	59.4	1324	65.5		
30336	3200	1027	33.6	1052	36.0	1077	38.5	1123	43.2	1166	47.7	1208	52.4	1249	57.4	1291	62.9	1335	68.8	1381	75.1
32232	3400	1061	36.9	1085	39.5	1108	42.1	1154	47.3	1197	52.3	1238	57.1	1277	62.0	1316	67.2	1355	72.9	1396	79.0
34128	3600	1097	40.5	1119	43.2	1141	46.0	1185	51.5	1228	57.0	1269	62.2	1308	67.3	1345	72.5	1381	77.9	1418	83.8
36024	3800	1134	44.5	1155	47.2	1176	50.1	1218	55.9	1260	61.7	1300	67.5	1339	73.0	1375	78.4	1411	83.8	1445	89.4
37920	4000	1173	48.8	1192	51.6	1212	54.5	1251	60.5	1292	66.7	1331	72.8	1369	78.9	1406	84.7	1441	90.4	1475	96.0
39816	4200	1213	53.5	1231	56.4	1249	59.4	1287	65.5	1325	71.9	1363	78.3	1401	84.8	1437	91.1	1472	97.3		
41712	4400	1253	58.5	1271	61.5	1288	64.6	1324	70.9	1360	77.4	1396	84.1	1432	90.9	1468	97.7				
43608	4600	1294	63.9	1311	67.1	1328	70.2	1362	76.7	1396	83.3	1430	90.2	1465	97.3						
45504	4800	1335	69.6	1352	72.9	1369	76.3	1401	82.9	1433	89.7	1466	96.7								

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

**44 1/2
SISW**

WHEEL

**48 in.
diameter**

OUTLET

**43-3/8x38-15/16 in.
outside**

**11.58 sq. ft.
inside area**

MAXIMUM BHP = 51.0 ($\frac{RPM}{1000}$)³

CLASS I RPM 817

CLASS II RPM 1066

CLASS III RPM 1344

TIP SPEED, fpm = 12.57 x RPM

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11580	1000	292	1.3	326	1.8	356	2.2														
12738	1100	307	1.5	340	2.0	369	2.5	425	3.7												
13896	1200	324	1.8	354	2.3	383	2.9	433	4.0												
15054	1300	342	2.0	369	2.6	397	3.2	445	4.4	492	5.7										
16212	1400	360	2.3	385	2.9	411	3.6	459	4.9	502	6.2	548	7.8								
17370	1500	378	2.7	402	3.3	426	4.0	473	5.4	514	6.7	554	8.2	599	10.0						
18528	1600	397	3.0	420	3.7	442	4.4	487	5.9	527	7.3	565	8.8	604	10.6	647	12.5				
19686	1700	416	3.4	438	4.2	459	4.9	501	6.5	541	8.0	578	9.5	613	11.2	650	13.1	691	15.2		
20844	1800	434	3.9	456	4.7	476	5.4	516	7.1	555	8.7	591	10.3	625	11.9	658	13.8	694	15.9		
22002	1900	453	4.4	475	5.2	494	6.0	531	7.7	569	9.5	605	11.2	638	12.8	669	14.6	701	16.6	736	18.9
23160	2000	472	4.9	494	5.8	513	6.6	548	8.4	584	10.2	619	12.1	652	13.8	682	15.6	712	17.5	743	19.7
25476	2200	510	6.1	531	7.1	550	8.0	582	9.9	615	11.9	648	13.9	680	16.0	709	17.9	737	19.8	764	21.8
27792	2400	549	7.5	569	8.5	587	9.6	619	11.7	648	13.7	678	15.9	708	18.2	737	20.4	765	22.6	791	24.6
30108	2600	588	9.1	607	10.2	624	11.4	656	13.7	683	15.9	710	18.2	738	20.5	766	23.0	793	25.4	819	27.8
32424	2800	628	10.9	645	12.1	662	13.4	693	15.9	720	18.3	745	20.7	770	23.2	796	25.7	822	28.4	847	31.0
34740	3000	668	13.1	684	14.3	700	15.7	730	18.4	757	21.0	781	23.6	804	26.1	828	28.8	852	31.6	876	34.4
37056	3200	709	15.5	724	16.8	739	18.2	768	21.1	794	24.0	817	26.7	840	29.4	861	32.2	884	35.0	906	38.0
39372	3400	750	18.2	764	19.6	778	21.1	805	24.1	831	27.2	855	30.2	876	33.1	897	35.9	917	38.9	938	41.9
41688	3600	790	21.3	804	22.7	817	24.3	843	27.4	868	30.7	892	33.9	913	37.0	933	40.1	952	43.1	972	46.2
44004	3800	831	24.7	844	26.2	857	27.8	882	31.1	906	34.5	929	38.0	950	41.3	970	44.5	989	47.8	1007	51.0
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
23160	2000	775	22.1	811	24.6																
25476	2200	792	24.1	820	26.5	850	29.1														
27792	2400	816	26.7	841	29.0	866	31.5	919	36.9												
30108	2600	844	30.0	867	32.3	890	34.8	937	39.8	985	45.6	1037	52.0								
32424	2800	872	33.6	895	36.1	917	38.9	961	43.4	1003	49.0	1048	55.1	1095	61.8						
34740	3000	900	37.2	923	40.0	945	42.7	988	47.9	1028	53.2	1068	59.1	1109	65.5	1152	72.5	1198	80.0		
37056	3200	929	41.0	951	44.0	973	47.0	1016	52.8	1055	58.3	1092	64.0	1130	70.1	1168	76.8	1207	84.1	1249	91.8
39372	3400	959	45.0	981	48.2	1002	51.4	1044	57.8	1083	63.9	1120	69.7	1155	75.7	1190	82.1	1226	89.1	1262	96.6
41688	3600	992	49.5	1012	52.8	1032	56.1	1072	62.9	1111	69.6	1148	76.0	1182	82.2	1216	88.5	1249	95.1	1283	102.3
44004	3800	1025	54.3	1044	57.7	1063	61.1	1101	68.2	1139	75.4	1176	82.4	1210	89.2	1243	95.7	1275	102.3	1307	109.2
46320	4000	1060	59.6	1078	63.0	1095	66.6	1132	73.9	1168	81.4	1204	88.9	1238	96.3	1271	103.4	1303	110.4	1334	117.3
48636	4200	1096	65.3	1113	68.9	1130	72.5	1163	80.0	1198	87.8	1233	95.7	1267	103.6	1299	111.3	1331	118.8		
50952	4400	1133	71.4	1149	75.1	1165	78.9	1197	86.6	1229	94.5	1262	102.7	1295	111.0	1328	119.3				
53268	4600	1170	78.0	1186	81.9	1201	85.8	1231	93.6	1262	101.8	1293	110.2	1325	118.8						
55584	4800	1207	84.9	1222	89.0	1237	93.1	1267	101.2	1296	109.6	1325	118.1								

WHEEL	52-7/8 in. diameter	OUTLET	47-7/8x43 in. outside	14.05 sq. ft. inside area	MAXIMUM BHP = $82.4 \left(\frac{\text{RPM}}{1000} \right)^3$	49 SISW
CLASS I RPM 742		CLASS II RPM 968	CLASS III RPM 1221		TIP SPEED, fpm = 13.84 x RPM	

[illegible]

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses • Performance ratings do not include the effects of appurtenances in the air stream.

WHEEL	58-1/2 in. diameter	OUTLET	53x47-9/16 in. outside	17.24 sq. ft. inside area	MAXIMUM BHP = $137 \left(\frac{\text{RPM}}{1000}\right)^3$	54 1/4 SISW
CLASS I RPM 670		CLASS II RPM 875	CLASS III RPM 1103	TIP SPEED, fpm = 15.32 x RPM		

[illegible]

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

60 SISW	WHEEL	64-3/4 in. diameter	OUTLET	58-1/2x57-3/4 in. outside	21.06 sq. ft. inside area	MAXIMUM BHP = 227 ($\frac{RPM}{1000}$)³
	CLASS I RPM 606	CLASS II RPM 791	CLASS III RPM 997	TIP SPEED, fpm = 16.95 x RPM		

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
21060	1000	217	2.4	242	3.2	264	4.0														
23166	1100	228	2.7	252	3.7	273	4.5	315	6.6												
25272	1200	240	3.2	263	4.2	284	5.2	321	7.2												
27378	1300	253	3.7	274	4.7	294	5.8	330	7.9	365	10.4										
29484	1400	267	4.2	286	5.3	305	6.5	340	8.8	372	11.2	406	14.1								
31590	1500	281	4.8	298	6.0	316	7.2	351	9.7	381	12.1	411	14.9	444	18.2						
33696	1600	294	5.5	311	6.7	328	8.0	361	10.7	391	13.3	419	16.0	448	19.2	480	22.7				
35802	1700	308	6.2	325	7.6	340	8.9	372	11.7	402	14.6	428	17.3	455	20.3	482	23.8	513	27.7		
37908	1800	322	7.0	339	8.5	353	9.8	383	12.8	412	15.9	439	18.7	463	21.7	488	25.0	515	28.8		
40014	1900	336	7.9	352	9.4	367	10.9	394	13.9	422	17.2	449	20.3	473	23.3	496	26.5	520	30.2	546	34.3
42120	2000	350	8.8	366	10.5	380	12.0	406	15.2	433	18.6	459	21.9	483	25.1	506	28.3	528	31.8	551	35.8
46332	2200	378	11.0	394	12.8	408	14.6	432	18.0	456	21.5	480	25.3	504	29.0	526	32.5	547	36.0	567	39.7
50544	2400	407	13.5	422	15.5	435	17.4	459	21.2	481	24.9	503	28.9	525	33.0	547	37.1	567	41.0	587	44.7
54756	2600	437	16.5	450	18.5	463	20.7	486	24.9	507	28.9	527	33.0	547	37.3	568	41.8	588	46.2	608	50.5
58968	2800	466	19.9	479	22.1	491	24.3	514	28.9	534	33.3	553	37.6	571	42.1	590	46.8	610	51.6	628	56.4
63180	3000	496	23.8	508	26.1	519	28.5	542	33.4	561	38.2	579	42.8	596	47.5	614	52.3	632	57.4	650	62.5
67392	3200	526	28.2	537	30.6	548	33.1	569	38.4	589	43.6	606	48.6	623	53.5	639	58.5	655	63.7	672	69.1
71604	3400	556	33.1	566	35.7	577	38.3	597	43.8	617	49.4	634	54.8	650	60.1	665	65.3	680	70.7	696	76.2
75816	3600	586	38.7	596	41.3	606	44.1	626	49.9	644	55.8	662	61.6	677	67.3	692	72.8	707	78.4	721	84.1
80028	3800	617	44.8	626	47.6	635	50.5	654	56.5	672	62.8	689	69.0	705	75.1	719	81.0	733	86.8	747	92.7
42120	2000	575	40.1	601	44.7																
46332	2200	587	43.7	608	48.1	630	52.8														
50544	2400	605	48.6	624	52.7	643	57.2	682	67.1												
54756	2600	626	54.6	643	58.7	660	62.9	695	72.3	730	82.9	769	94.5								
58968	2800	647	61.0	664	65.5	681	69.9	713	78.9	744	89.0	777	100.2	812	112.4						
63180	3000	667	67.6	685	72.7	701	77.6	733	87.0	762	96.7	792	107.4	822	119.1	854	131.8	888	145.4		
67392	3200	689	74.5	706	80.0	722	85.4	753	95.9	782	106.0	810	116.3	838	127.5	866	139.7	895	152.9	926	166.9
71604	3400	712	81.9	728	87.7	743	93.5	774	105.0	803	116.1	830	126.8	857	137.7	883	149.3	909	162.0	936	175.6
75816	3600	736	89.9	750	95.9	765	102.0	795	114.4	824	126.5	851	138.2	877	149.5	902	160.9	927	173.0	951	186.0
80028	3800	761	98.7	774	104.9	788	111.2	817	124.1	845	137.1	872	149.9	898	162.2	922	174.1	946	186.1	970	196.6
84240	4000	787	108.3	800	114.6	813	121.0	839	134.4	866	148.1	893	161.7	919	175.1	943	188.1	967	200.7	989	213.3
88452	4200	813	118.7	826	125.2	838	131.8	863	145.5	889	159.6	914	174.0	939	188.3	964	202.4	987	216.1		
92664	4400	840	129.9	852	136.6	864	143.5	888	157.4	912	171.9	936	186.8	961	201.9	985	216.9				
96876	4600	868	141.8	879	148.9	891	156.0	913	170.3	936	185.1	959	200.4	983	216.0						
101088	4800	895	154.5	907	161.9	918	169.3	940	184.1	961	199.2	983	214.8								

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

66 SISW	WHEEL	71-3/16 in. diameter	OUTLET	64-3/8x57-3/4 in. outside	25.5 sq. ft. inside area	MAXIMUM BHP = 365 ($\frac{RPM}{1000}$)³
	CLASS I RPM 551	CLASS II RPM 719	CLASS III RPM 906	TIP SPEED, fpm = 18.64 x RPM		

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
25500	1000	197	2.9	220	3.8	240	4.9														
28050	1100	207	3.3	229	4.4	249	5.5	286	8.0												
30600	1200	219	3.8	239	5.0	258	6.2	292	8.7												
33150	1300	230	4.4	249	5.7	267	7.0	300	9.6	332	12.6										
35700	1400	243	5.1	260	6.4	277	7.9	309	10.6	338	13.5	369	17.1								
38250	1500	255	5.8	271	7.2	287	8.7	319	11.8	347	14.7	374	18.1	404	22.0						
40800	1600	268	6.6	283	8.1	298	9.7	328	13.0	356	16.1	381	19.3	407	23.2	436	27.5				
43350	1700	280	7.5	296	9.1	309	10.7	338	14.2	365	17.6	390	20.9	413	24.6	438	28.8	466	33.5		
45900	1800	293	8.5	308	10.2	321	11.9	348	15.5	375	19.2	399	22.7	421	26.2	444	30.3	468	34.9		
48450	1900	306	9.5	321	11.4	333	13.2	359	16.9	384	20.8	408	24.6	430	28.2	451	32.1	473	36.6	496	41.5
51000	2000	318	10.7	333	12.7	346	14.6	370	18.4	394	22.5	418	26.6	439	30.4	460	34.3	480	38.6	501	43.3
56100	2200	344	13.3	358	15.5	371	17.6	393	21.8	415	26.1	437	30.6	458	35.1	478	39.4	497	43.6	516	48.0
61200	2400	370	16.4	384	18.7	396	21.1	417	25.7	437	30.2	457	35.0	478	40.0	497	44.9	516	49.6	534	54.2
66300	2600	397	19.9	409	22.5	421	25.1	442	30.1	461	35.0	479	39.9	498	45.2	517	50.6	535	55.9	552	61.1
71400	2800	424	24.1	435	26.7	447	29.5	468	35.0	486	40.3	503	45.6	519	51.0	537	56.7	554	62.5	571	68.2
76500	3000	451	28.8	462	31.6	472	34.5	493	40.5	511	46.2	527	51.9	542	57.5	558	63.4	575	69.5	591	75.7
81600	3200	478	34.1	488	37.0	498	40.1	518	46.5	536	52.8	552	58.8	566	64.8	581	70.9	596	77.1	611	83.6
86700	3400	506	40.1	515	43.2	525	46.4	543	53.1	561	59.9	577	66.4	591	72.8	605	79.1	619	85.6	633	92.3
91800	3600	533	46.9	542	50.1	551	53.4	569	60.4	586	67.6	602	74.7	616	81.5	629	88.2	643	95.0	656	101.8
96900	3800	561	54.3	570	57.7	578	61.2	595	68.5	611	76.0	627	83.6	641	90.9	654	98.1	667	105.2	679	112.3
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
51000	2000	523	48.5	547	54.1																
56100	2200	534	52.9	553	58.2	573	64.0														
61200	2400	551	58.8	567	63.8	584	69.2	620	81.2												
66300	2600	569	66.1	585	71.0	601	76.2	632	87.5	664	100.3	699	114.4								
71400	2800	588	73.9	604	79.4	619	84.7	648	95.6	677	107.8	707	121.3	738	136.1						
76500	3000	607	81.9	623	88.0	638	94.0	666	105.4	693	117.1	720	130.0	748	144.2	777	159.6	808	176.0		
81600	3200	627	90.2	642	96.9	657	103.4	685	116.2	711	128.4	737	140.8	762	154.3	788	169.1	814	185.1	842	202.0
86700	3400	647	98.2	662	106.2	676	113.2	704	127.2	730	140.6	755	153.5	779	166.7	803	180.8	827	196.1	851	212.5
91800	3600	669	108.9	682	116.2	696	123.6	723	138.5	749	153.2	774	167.4	798	181.0	820	194.9	843	209.5	865	225.3
96900	3800	692	119.6	704	127.0	717	134.6	743	150.3	768	166.0	793	181.5	816	196.4	839	210.9	860	225.4	882	240.5
102000	4000	715	131.2	727	138.8	739	146.6	763	162.8	788	179.3	812	195.8	835	212.1	858	227.8	879	243.1	900	258.3
107100	4200	740	143.8	751	151.7	762	159.7	785	176.2	808	193.3	831	210.7	854	228.0	877	245.1	898	261.7		
112200	4400	764	157.3	775	165.5	786	173.8	807	190.7	829	208.2	852	226.2	874	244.5	896	262.6				
117300	4600	789	171.7	800	180.3	810	188.9	831	206.3	851	224.2	872	242.7	894	261.6						
122400	4800	814	187.1	825	196.1	835	205.1	855	223.0	874	241.3	894	260.2								

WHEEL	78-3/4 in. diameter	OUTLET	71-1/8x63 7/8 in. outside	31.19 sq. ft. inside area	MAXIMUM BHP = 605 $\left(\frac{\text{RPM}}{1000}\right)^3$	73 SISW
CLASS I – RPM 498			CLASS II – RPM 650		TIP SPEED, fpm = 20.62 x RPM	

CFM	OV FPM	1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
28071	900	145	1.8	189	2.9	190	4.0	212	5.3												
31190	1000	156	2.2	178	3.4	199	4.6	217	5.9												
34309	1100	168	2.7	187	4.0	207	5.4	225	6.7	259	9.8										
37428	1200	179	3.2	198	4.6	216	6.1	233	7.6	264	10.6										
40547	1300	190	3.8	208	5.3	225	6.9	242	8.5	271	11.6	300	15.3								
43666	1400	202	4.5	219	6.2	235	7.8	251	9.5	280	12.9	306	16.5	334	20.8						
46785	1500	214	5.3	231	7.1	245	8.8	260	10.6	288	14.4	313	17.9	338	22.0	365	26.9				
49904	1600	225	6.1	242	8.1	256	9.9	269	11.8	297	15.8	322	19.6	344	23.6	368	28.3	394	33.6		
53023	1700	237	7.1	253	9.1	267	11.1	280	13.1	306	17.3	330	21.5	352	25.5	374	30.0	396	35.2	421	40.9
56142	1800	249	8.2	265	10.3	278	12.5	290	14.5	315	18.9	339	23.4	360	27.7	381	32.0	401	37.0	423	42.6
59261	1900	261	9.3	276	11.6	290	13.9	301	16.1	324	20.6	347	25.4	369	30.0	389	34.4	408	39.2	428	44.7
62380	2000	273	10.7	288	13.0	301	15.4	313	17.8	334	22.4	356	27.4	378	32.4	397	37.2	416	41.9	434	47.1
68618	2200	298	13.7	311	16.2	324	18.9	335	21.5	355	26.6	375	31.8	395	37.4	414	42.9	433	48.1	450	53.2
74856	2400	323	17.2	335	20.0	347	22.9	358	25.6	377	31.3	395	36.9	413	42.7	432	48.8	450	54.8	467	60.6
81094	2600	348	21.4	359	24.3	370	27.4	381	30.8	400	36.8	417	42.7	433	48.8	450	55.2	467	61.8	484	68.3
87332	2800	373	26.3	383	29.4	394	32.6	404	36.0	423	42.8	439	49.2	454	55.7	470	62.3	485	69.2	501	76.3
93570	3000	398	31.9	408	35.1	417	38.5	427	42.1	445	49.4	462	56.5	476	63.4	490	70.3	505	77.5	519	84.5
99808	3200	423	38.2	432	41.7	441	45.2	451	49.0	468	56.8	484	64.5	499	71.9	512	79.2	525	86.6	539	94.3
106046	3400	449	45.4	457	49.0	468	52.8	474	56.7	491	64.9	507	73.2	521	81.2	534	89.0	547	96.7	559	104.7
112284	3600	474	53.4	482	57.2	490	61.2	498	65.3	514	73.8	530	82.6	544	81.3	557	89.6	569	107.8	581	116.1
118522	3800	499	62.4	507	66.4	515	70.5	523	74.8	538	83.7	553	92.9	567	102.2	580	111.1	591	118.9	603	128.6
CFM	OV FPM	4-1/2" SP		5" SP		5-1/2" SP		6" SP		6-1/2" SP		7" SP		7-1/2" SP		8" SP		8-1/2" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
59261	1900	448	50.7	471	57.1																
62380	2000	453	52.9	473	59.3	494	66.1														
68618	2200	466	58.7	483	64.7	500	71.2	518	78.2	537	85.8										
74856	2400	482	66.2	498	71.9	513	78.0	528	84.6	544	91.7	560	99.3	578	107.2						
81094	2600	498	74.7	514	80.8	528	88.8	543	93.1	557	99.8	571	107.0	585	114.6	600	122.7	616	131.1	632	139.9
87332	2800	517	83.4	532	90.3	546	97.0	559	103.5	573	110.1	588	116.8	599	124.1	612	131.7	625	139.8	639	148.3
93570	3000	534	92.5	549	100.1	563	107.6	577	114.9	590	121.9	602	128.9	615	135.9	627	143.2	639	150.8		
99808	3200	553	102.2	566	110.3	580	118.4	594	126.5	607	134.4	619	142.0	631	149.5	643	156.9				
106046	3400	572	112.8	585	121.2	598	129.8	611	138.4	624	147.0	636	155.5	649	163.8						
112284	3600	593	124.5	605	133.1	617	142.0	629	151.1	641	160.2										
118522	3800	614	137.3	625	146.2	637	155.3	648	164.6												
124780	4000	636	151.2	647	160.4																

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

WHEEL	87-1/8 in. diameter	OUTLET	66-13/16x70-5/8 in. outside	38.17 sq. ft. inside area	MAXIMUM BHP = $1002 \left(\frac{\text{RPM}}{1000} \right)^3$	80^{3/4} SISW
CLASS I – RPM 450			CLASS II – RPM 588		TIP SPEED, fpm = 22.81 x RPM	

CFM	OV FPM	1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
34353	900	131	2.2	153	3.6	172	4.9	191	6.5												
38170	1000	141	2.7	161	4.2	180	5.7	196	7.2												
41987	1100	152	3.3	169	4.9	187	6.6	203	8.1	234	12.0										
45804	1200	162	3.9	179	5.6	195	7.5	211	9.3	239	12.9										
49621	1300	172	4.7	188	6.5	203	8.4	219	10.5	245	14.2	271	18.8								
53438	1400	183	5.5	198	7.5	212	9.5	227	11.7	253	15.8	277	20.2	302	25.4						
57255	1500	193	6.4	209	8.6	222	10.8	235	13.0	261	17.6	283	21.9	306	27.0	330	32.9				
61072	1600	204	7.5	219	9.9	232	12.1	244	14.4	268	19.3	291	24.0	311	28.9	333	34.6	356	41.1		
64889	1700	214	8.7	229	11.2	242	13.6	253	16.0	276	21.2	298	26.3	318	31.2	338	36.7	358	43.0	381	50.0
68706	1800	225	10.0	239	12.6	252	15.2	263	17.8	284	23.1	306	28.7	326	33.9	344	39.2	363	45.3	382	52.2
72523	1900	236	11.4	250	14.2	262	17.0	273	19.7	293	25.2	314	31.1	334	36.7	352	42.2	369	48.0	387	54.7
76340	2000	247	13.0	260	15.9	272	18.9	283	21.7	302	27.4	322	33.5	341	39.7	359	45.5	376	51.2	392	57.6
83974	2200	269	16.7	281	19.8	293	23.1	303	26.3	321	32.5	339	38.9	357	45.7	375	52.5	391	58.9	406	65.2
91608	2400	292	21.1	303	24.4	314	28.0	324	31.5	341	38.4	357	45.1	374	52.3	390	59.7	406	67.1	422	74.2
99242	2600	314	26.2	325	29.8	335	33.5	344	37.4	362	45.0	377	52.3	392	59.7	407	67.6	422	75.6	437	83.6
106876	2800	337	32.2	346	35.9	356	39.9	365	44.1	382	52.4	397	60.3	411	68.1	425	76.3	439	84.7	453	93.4
114510	3000	360	39.0	369	43.0	377	47.2	386	51.6	403	60.5	417	69.2	431	77.5	443	86.0	456	94.8	470	103.8
122144	3200	383	46.8	391	51.0	399	55.4	407	60.0	423	69.5	438	78.9	451	88.0	463	96.9	475	106.0	487	115.4
129778	3400	406	55.6	413	60.0	421	64.6	429	69.4	444	79.4	458	89.5	471	99.3	483	108.9	495	118.4	506	128.1
137412	3600	429	65.4	436	70.1	443	74.9	451	79.9	465	90.4	478	101.1	492	111.7	503	121.9	514	132.0	525	142.1
145046	3800	452	76.3	459	81.3	466	86.3	472	91.5	486	102.4	500	113.7	512	125.0	524	136.0	535	146.7	545	157.4
CFM	OV FPM	4-1/2" SP		5" SP		5-1/2" SP		6" SP		6-1/2" SP		7" SP		7-1/2" SP		8" SP		8-1/2" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
72523	1900	405	62.0	426	69.9																
76340	2000	409	64.8	427	72.5	447	80.9														
83974	2200	421	71.8	436	79.1	452	87.1	468	95.7	486	104.7										
91608	2400	436	81.0	450	88.0	464	95.4	478	103.6	492	112.3	507	121.5	522	131.2						
99242	2600	452	91.4	465	98.8	478	106.3	491	113.9	503	122.1	516	130.9	529	140.3	543	150.1	557	160.4	572	171.1
106876	2800	467	102.1	481	110.5	493	118.7	506	126.7	518	134.7	530	143.0	541	151.8	553	161.2	565	171.1	577	181.5
114510	3000	483	113.2	496	122.5	509	131.6	521	140.6	533	149.2	544	157.7	556	166.3	567	175.2	578	184.6		
122144	3200	500	125.1	512	135.0	525	144.9	537	154.8	549	164.4	560	173.8	571	183.0	581	192.1				
129778	3400	517	138.1	529	148.4	541	158.9	552	169.4	564	179.9	575	190.3	586	200.5						
137412	3600	536	152.4	547	162.9	558	173.8	569	184.9												
145046	3800	555	168.0	565	178.9	576	190.0	586	201.4	597	213.1										
152680	4000	575	185.1	585	196.3																

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

FAN SELECTION FOR LOWEST NOISE LEVELS-DIDW FANS

DIDW FAN OUTLET VELOCITY vs STATIC PRESSURE

POSSIBLE FAN SELECTIONS	1" SP	1½" SP	2" SP	2½" SP	3" SP	3½" SP	4" SP	4½" SP	5" SP
	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM
Most Efficient (Quietest)	900-1000	1200-1400	1400-1600	1600-1800	1700-1900	1800-2000	2000-2200	2200-2400	2400-2600
Average Good Selection	1200-1400	1500-1700	1700-1900	1900-2100	2000-2200	2200-2400	2400-2600	2600-2800	2800-3000
Economical Selection	1500-1700	1800-2000	2000-2400	2400-2600	2400-2800	2400-2800	2400-2800	3000-3400	3200-3600
POSSIBLE FAN SELECTIONS	5½" SP	6" SP	7" SP	8" SP	9" SP	10" SP	11" SP	12" SP	13" SP
	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM	OV FPM
Most Efficient (Quietest)	2400-2600	2400-2600	2600-3000	2800-3200	3000-2400	3200-3600	3200-3600	3400-3800	3600-3800
Average Good Selection	2800-3200	3000-3400	3200-3600	3400-3800	3600-4000	3800-4200	3800-4200	4000-4200	4000-4200
Economical Selection	3400-3800	3600-4000	3600-4000	3800-4200	4000-4400	4000-4400	4000-4400	4000-4400	4000-4400

White Area = Class I

Light Shaded Area = Class II

Heavy Shaded Area = Class III

WHEEL	32-3/8 in. diameter	OUTLET	27-7/8x47-7/8 inside	9.27 sq. ft. inside area	MAXIMUM BHP = $12.3 \left(\frac{\text{RPM}}{1000}\right)^3$	30 DIDW
CLASS I RPM 1286	CLASS II RPM 1678	CLASS III RPM 2115	TIP SPEED, fpm = $8.48 \times \text{RPM}$			

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9270	1000	433	1.0	482	1.4	530	1.8	620	2.7												
10197	1100	457	1.2	502	1.6	547	2.0	631	3.0	710	4.0										
11124	1200	482	1.4	524	1.8	566	2.3	645	3.2	720	4.3	791	5.4								
12051	1300	507	1.6	548	2.1	587	2.5	661	3.5	733	4.6	801	5.8	865	7.1						
12978	1400	532	1.8	573	2.3	609	2.8	679	3.9	747	5.0	812	6.2	875	7.5	934	8.9				
13905	1500	558	2.1	598	2.6	633	3.2	699	4.3	763	5.4	826	6.7	886	8.0	944	9.4	999	10.9		
14832	1600	584	2.3	623	2.9	657	3.5	720	4.7	781	5.9	841	7.2	899	8.5	955	9.9	1008	11.4	1060	13.0
15759	1700	611	2.6	648	3.2	682	3.9	742	5.1	801	6.4	857	7.7	913	9.1	967	10.5	1019	12.1	1070	13.7
16686	1800	639	3.0	673	3.6	707	4.3	766	5.6	821	6.9	876	8.3	929	9.7	981	11.2	1031	12.7	1081	14.4
17613	1900	667	3.3	700	4.0	732	4.7	790	6.1	843	7.4	895	8.9	946	10.3	996	11.9	1045	13.5	1093	15.1
18540	2000	695	3.7	727	4.4	757	5.1	815	6.6	866	8.0	916	9.5	964	11.0	1013	12.6	1060	14.2	1106	15.9
20394	2200	752	4.6	781	5.4	810	6.1	865	7.8	914	9.4	960	11.0	1005	12.6	1049	14.2	1093	15.9	1137	17.7
22248	2400	810	5.7	837	6.5	864	7.3	915	9.0	964	10.8	1007	12.6	1049	14.3	1090	16.1	1131	17.9	1172	19.7
24102	2600	868	6.9	894	7.8	919	8.7	967	10.5	1013	12.4	1056	14.3	1096	16.2	1135	18.1	1173	20.0	1211	21.9
25956	2800	927	8.3	951	9.3	975	10.2	1020	12.1	1064	14.2	1106	16.3	1145	18.3	1182	20.3	1218	22.3	1253	24.4
27810	3000	986	9.9	1009	10.9	1032	12.0	1074	14.0	1116	16.1	1156	18.3	1195	20.6	1231	22.7	1265	24.9	1299	27.0
29664	3200	1046	11.7	1068	12.8	1089	13.9	1129	16.1	1169	18.3	1207	20.6	1245	23.0	1281	25.3	1314	27.7	1348	29.9
31518	3400	1106	13.7	1127	14.8	1147	16.1	1186	18.4	1223	20.7	1259	23.1	1296	25.6	1331	28.1	1364	30.6	1395	33.1
33372	3600	1166	16.0	1186	17.2	1205	18.5	1242	20.9	1278	23.4	1313	25.9	1347	28.4	1381	31.1	1414	33.8	1445	36.4
35226	3800	1227	18.5	1246	19.8	1264	21.1	1299	23.7	1334	26.3	1367	28.9	1400	31.6	1432	34.3	1464	37.1	1495	40.0
18540	2000	1151	17.7	1196	19.5	1239	21.4	1323	25.2												
20394	2200	1179	19.5	1221	21.4	1263	23.3	1343	27.3	1420	31.5	1494	35.9								
22248	2400	1212	21.6	1251	23.5	1290	25.5	1367	29.7	1441	34.0	1513	38.5	1582	43.2						
24102	2600	1249	23.9	1286	25.9	1323	28.0	1395	32.3	1466	36.7	1535	41.4	1602	46.2	1667	51.1	1730	56.2		
25956	2800	1289	26.5	1324	28.6	1359	30.7	1427	35.1	1494	39.7	1560	44.5	1625	49.4	1688	54.5	1749	59.8	1809	65.2
27810	3000	1332	29.2	1365	31.5	1398	33.7	1463	38.3	1527	43.0	1590	47.9	1651	53.0	1712	58.2	1772	63.6	1830	69.1
29664	3200	1378	32.3	1409	34.6	1440	36.9	1502	41.7	1562	46.6	1622	51.7	1682	56.9	1740	62.2	1797	67.8	1854	73.4
31518	3400	1426	35.5	1455	38.0	1485	40.4	1543	45.4	1601	50.5	1658	55.8	1715	61.1	1771	66.6	1826	72.3	1880	78.0
33372	3600	1475	39.0	1503	41.6	1532	44.2	1587	49.4	1642	54.7	1697	60.2	1751	65.7	1805	71.1	1857	77.1	1910	83.0
35226	3800	1525	42.8	1553	45.5	1580	48.2	1633	53.7	1686	59.2	1738	64.9	1790	70.6	1841	76.4	1892	82.4	1942	88.4
37080	4000	1575	46.7	1603	49.6	1630	52.5	1681	58.3	1732	64.0	1781	69.9	1831	75.8	1880	81.8	1929	88.0	1977	94.2
38934	4200	1625	50.8	1653	53.9	1680	57.0	1730	63.1	1779	69.1	1827	75.2	1874	81.4	1921	87.6	1968	93.9	2015	100.3
40788	4400	1675	55.2	1703	58.5	1730	61.8	1780	68.2	1828	74.6	1874	80.9	1919	87.3	1965	93.7	2010	100.2	2054	106.8
42642	4600	1727	59.9	1753	63.3	1780	66.8	1830	73.6	1877	80.3	1922	86.9	1966	93.5	2010	100.2	2053	106.9		
44496	4800	1779	65.0	1805	68.5	1830	72.0	1880	79.2	1927	86.3	1971	93.2	2014	100.1						

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

WHEEL	35-9/16 in. diameter	OUTLET	30-7/8x52-11/16 inside	11.30 sq. ft. inside area	MAXIMUM BHP = $19.8 \left(\frac{\text{RPM}}{1000}\right)^3$	33 DIDW
CLASS I RPM 1169	CLASS II RPM 1525	CLASS III RPM 1923	TIP SPEED, fpm = $9.31 \times \text{RPM}$			

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11300	1000	395	1.3	440	1.7	483	2.2	564	3.3												
12430	1100	417	1.5	458	2.0	498	2.5	575	3.6	646	4.8										
13560	1200	440	1.7	478	2.2	516	2.8	588	3.9	656	5.2	720	6.6								
14690	1300	463	1.9	500	2.5	535	3.1	602	4.3	667	5.6	729	7.1	787	8.6						
15820	1400	486	2.2	523	2.8	555	3.5	619	4.7	680	6.1	740	7.6	796	9.1	850	10.8				
16950	1500	509	2.5	546	3.2	577	3.8	637	5.2	695	6.6	752	8.1	806	9.7	859	11.4	909	13.2		
18080	1600	534	2.8	568	3.6	600	4.3	657	5.7	712	7.2	766	8.7	818	10.4	869	12.1	918	13.9	965	15.8
19210	1700	559	3.2	591	4.0	623	4.7	677	6.2	730	7.8	781	9.4	831	11.1	880	12.8	928	14.7	974	16.6
20340	1800	584	3.6	615	4.4	645	5.2	699	6.8	749	8.4	798	10.1	846	11.8	893	13.6	939	15.5	984	17.5
21470	1900	609	4.1	639	4.9	668	5.7	721	7.4	769	9.1	816	10.8	862	12.6	907	14.5	951	16.4	995	18.4
22600	2000	635	4.6	664	5.4	692	6.3	744	8.1	790	9.8	835	11.6	879	13.5	923	15.4	965	17.3	1007	19.4
24860	2200	687	5.7	714	6.6	740	7.5	789	9.5	834	11.4	875	13.4	916	15.3	957	17.4	996	19.4	1035	21.6
27120	2400	740	7.0	765	8.0	789	9.0	836	11.1	880	13.2	919	15.3	957	17.5	994	19.6	1031	21.8	1068	24.0
29380	2600	794	8.5	817	9.6	839	10.6	883	12.8	925	15.2	964	17.5	1000	19.8	1035	22.1	1070	24.4	1104	26.8
31640	2800	848	10.2	870	11.4	891	12.5	932	14.9	971	17.3	1010	19.9	1045	22.4	1079	24.8	1111	27.3	1143	29.8
33900	3000	902	12.1	923	13.4	943	14.7	981	17.2	1019	19.7	1056	22.4	1091	25.1	1124	27.8	1154	30.4	1185	33.0
36160	3200	957	14.4	976	15.7	996	17.1	1032	19.7	1068	22.4	1102	25.2	1137	28.1	1169	31.0	1200	33.8	1229	36.8
38420	3400	1012	16.8	1030	18.3	1049	19.7	1084	22.5	1117	25.4	1150	28.3	1183	31.3	1215	34.4	1245	37.4	1274	40.5
40680	3600	1067	19.6	1085	21.1	1102	22.7	1135	25.7	1168	28.7	1199	31.7	1230	34.8	1261	38.0	1291	41.3	1319	44.5
42940	3800	1122	22.7	1139	24.3	1156	25.9	1188	29.1	1219	32.2	1249	35.4	1278	38.7	1308	42.0	1337	45.4	1365	48.9
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22600	2000	1048	21.5	1088	23.7	1128	26.0	1203	30.7												
24860	2200	1074	23.8	1112	26.1	1149	28.4	1222	33.3	1292	38.4	1359	43.6								
27120	2400	1104	26.3	1140	28.7	1175	31.1	1244	36.1	1311	41.4	1376	46.9	1439	52.5						
29380	2600	1138	29.2	1172	31.6	1205	34.1	1270	39.3	1334	44.7	1397	50.4	1458	56.2	1517	62.2	1574	68.4		
31640	2800	1175	32.3	1207	34.9	1238	37.5	1300	42.9	1361	48.4	1421	54.2	1479	60.2	1536	66.4	1592	72.8	1646	79.3
33900	3000	1215	35.7	1245	38.4	1274	41.1	1333	46.7	1391	52.5	1448	58.4	1504	64.6	1559	70.9	1613	77.4	1666	84.2
36160	3200	1257	39.4	1285	42.3	1313	45.1	1369	50.9	1424	56.9	1478	63.0	1532	69.4	1584	75.9	1636	82.5	1687	89.4
38420	3400	1301	43.4	1328	46.4	1354	49.4	1407	55.5	1460	61.7	1511	68.1	1562	74.6	1613	81.2	1663	88.1	1712	95.1
40680	3600	1348	47.7	1372	50.9	1398	54.0	1448	60.4	1498	66.9	1547	73.4	1596	80.2	1644	87.0	1692	94.0	1739	101.2
42940	3800	1392	52.3	1417	55.6	1442	59.0	1480	65.6	1538	72.4	1585	79.2	1632	86.2	1678	93.3	1724	100.5	1769	107.8
45200	4000	1437	57.1	1463	60.7	1488	64.2	1534	71.2	1580	78.3	1625	85.4	1670	92.6	1714	99.9	1758	107.3	1802	114.9
47460	4200	1483	62.2	1509	66.0	1533	69.8	1579	77.2	1623	84.5	1668	91.9	1709	99.4	1752	107.0	1794	114.7	1836	122.5
49720	4400	1530	67.6	1555	71.6	1579	75.6	1625	83.5	1668	91.2	1710	98.9	1751	106.6	1792	114.5	1833	122.4		
51980	4600	1577	73.4	1601	77.5	1625	81.7	1671	90.0	1713	98.2	1754	106.2	1794	114.3	1833	122.4				
54240	4800	1625	79.6	1648	83.8	1671	88.1	1716	96.9	1759	105.5	1799	114.0	1838	122.4						

36 1/2 DIDW	WHEEL	39-3/8 in. diameter	OUTLET	34-7/16x58-1/4 inside	13.79 sq. ft. inside area	MAXIMUM BHP = 35.5 (RPM/1000)³
	CLASS I RPM 996	CLASS II RPM 1300	CLASS III RPM 1639	TIP SPEED, fpm = 10.3 x RPM		

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13790	1000	347	1.5	391	2.1	435	2.7	518	4.3	592	5.9	658	7.7								
15169	1100	364	1.8	404	2.3	445	3.0	524	4.6	596	6.3	661	8.2	721	10.2						
16548	1200	382	2.0	420	2.7	457	3.3	531	4.9	601	6.7	665	8.7	724	10.7	779	12.9				
17927	1300	400	2.3	437	3.0	471	3.7	540	5.3	606	7.2	669	9.2	728	11.3	782	13.6	834	15.9		
19306	1400	419	2.6	455	3.4	488	4.1	551	5.7	614	7.6	675	9.7	732	11.9	786	14.2	837	16.6	885	19.1
20685	1500	439	2.9	473	3.8	505	4.6	564	6.2	623	8.1	681	10.2	737	12.5	790	14.9	840	17.4	888	20.0
22064	1600	458	3.3	492	4.2	523	5.1	578	6.8	634	8.7	689	10.8	743	13.1	795	15.6	845	18.2	892	20.8
23443	1700	479	3.7	511	4.7	541	5.6	595	7.5	646	9.3	699	11.5	751	13.8	801	16.3	849	19.0	896	21.7
24822	1800	499	4.2	530	5.2	559	6.2	612	8.2	661	10.1	710	12.2	759	14.6	808	17.1	855	19.8	901	22.6
26201	1900	521	4.7	550	5.7	578	6.8	630	8.9	676	10.9	723	13.0	769	15.4	816	17.9	862	20.7	907	23.5
27580	2000	542	5.2	570	6.3	597	7.4	647	9.7	693	11.8	737	13.9	781	16.3	826	18.9	870	21.6	913	24.5
30338	2200	586	6.5	611	7.6	636	8.8	684	11.3	728	13.7	769	16.1	809	18.4	849	21.0	889	23.7	930	26.7
33096	2400	631	8.0	653	9.2	676	10.4	722	13.1	764	15.8	803	18.4	840	21.0	877	23.5	914	26.2	951	29.2
35854	2600	677	9.7	697	11.0	718	12.3	760	15.1	801	18.0	839	21.0	875	23.8	909	26.5	943	29.3	977	32.2
38612	2800	723	11.7	742	13.0	761	14.4	800	17.3	839	20.5	876	23.7	911	26.8	944	29.8	975	32.8	1007	35.7
41370	3000	770	14.0	787	15.4	804	16.8	841	19.9	877	23.2	913	26.6	947	30.0	979	33.3	1010	36.8	1040	39.7
44128	3200	817	16.6	833	18.0	849	19.6	882	22.7	917	26.2	951	29.7	984	33.4	1015	37.0	1045	40.8	1074	44.0
46886	3400	864	19.5	879	21.0	894	22.6	925	25.9	957	29.5	990	33.2	1022	37.0	1052	40.9	1082	44.7	1110	48.5
49644	3600	911	22.7	925	24.4	940	26.0	969	29.5	999	33.1	1030	37.0	1060	41.0	1090	45.0	1118	49.1	1146	53.2
52402	3800	959	26.4	972	28.1	986	29.8	1013	33.4	1041	37.2	1070	41.1	1099	45.3	1128	49.5	1156	53.8	1183	58.2
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
27580	2000	955	27.5	996	30.6	1038	33.8	1112	40.4	1184	47.2	1252	54.3	1316	61.6						
30338	2200	969	29.7	1009	33.0	1047	36.3	1121	43.2	1192	50.3	1258	57.7	1322	65.3	1384	73.1	1442	81.1		
33096	2400	988	32.3	1025	35.6	1061	38.9	1133	46.1	1201	53.5	1267	61.2	1330	69.2	1390	77.3	1448	85.6	1504	94.1
35854	2600	1011	35.3	1045	38.5	1079	42.0	1147	49.2	1213	56.9	1277	64.9	1339	73.1	1398	81.6	1455	90.2	1511	99.1
38612	2800	1038	38.8	1069	42.0	1101	45.4	1165	52.7	1228	60.5	1289	68.7	1349	77.2	1408	86.0	1464	94.9	1519	104.1
41370	3000	1069	42.8	1098	46.0	1127	49.4	1187	56.7	1246	64.5	1305	72.8	1362	81.5	1419	90.5	1474	99.8	1528	109.3
44128	3200	1102	47.4	1130	50.7	1157	54.1	1212	61.3	1268	69.1	1323	77.4	1378	86.2	1433	95.3	1487	104.8	1539	114.6
46886	3400	1137	52.2	1164	55.8	1190	59.3	1241	66.5	1293	74.3	1345	82.6	1398	91.4	1450	100.6	1501	110.2	1552	120.2
49644	3600	1173	57.2	1199	61.2	1224	65.0	1273	72.5	1321	80.2	1370	88.4	1420	97.2	1469	106.5	1519	116.1	1567	126.2
52402	3800	1209	62.5	1234	66.7	1259	70.9	1307	78.9	1353	86.8	1399	95.0	1445	103.8	1492	113.0	1539	122.7	1586	132.7
55160	4000	1246	67.9	1271	72.5	1295	77.0	1342	85.7	1386	94.0	1430	102.4	1474	111.1	1518	120.2	1562	129.9	1607	140.0
57918	4200	1283	73.7	1307	78.5	1331	83.3	1377	92.7	1421	101.7	1463	110.4	1505	119.2	1546	128.3	1588	137.9		
60676	4400	1321	79.9	1345	84.9	1368	89.9	1413	99.9	1456	108.6	1497	118.9	1538	128.1	1577	137.3	1617	146.8		
63434	4600	1359	86.5	1383	91.6	1405	96.9	1450	107.4	1492	117.7	1533	127.8	1572	137.5	1610	147.0				
66192	4800	1398	93.4	1421	98.8	1443	104.2	1487	115.2	1528	126.1	1568	136.8	1607	147.2						

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

40 1/4 DIDW	WHEEL	43-7/16 in. diameter	OUTLET	37-7/8x64-1/2 in. outside	16.83 sq. ft. inside area	MAXIMUM BHP = 57.8 (RPM/1000)³
	CLASS I RPM 903	CLASS II RPM 1179	CLASS III RPM 1486	TIP SPEED, fpm = 11.37 x RPM		

	OV	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16830	1000	315	1.8	355	2.5	395	3.3	470	5.2	537	7.2	597	9.4								
18513	1100	331	2.1	367	2.9	403	3.7	475	5.6	540	7.7	600	10.0	654	12.4						
20196	1200	347	2.5	382	3.2	415	4.0	481	6.0	545	8.2	603	10.6	657	13.1	707	15.7				
21879	1300	364	2.8	397	3.7	428	4.5	490	6.4	550	8.7	607	11.2	660	13.8	709	16.5	756	19.3		
23562	1400	381	3.2	414	4.1	443	5.0	500	7.0	557	9.3	612	11.8	664	14.5	713	17.3	759	20.3	802	23.3
25245	1500	399	3.6	430	4.6	459	5.6	512	7.6	565	9.9	618	12.5	669	15.2	717	18.2	762	21.2	805	24.3
26928	1600	417	4.0	447	5.1	475	6.2	525	8.3	575	10.6	625	13.2	674	16.0	721	19.0	766	22.1	809	25.4
28611	1700	435	4.5	464	5.7	491	6.9	540	9.1	587	11.4	634	14.0	681	16.8	727	19.9	771	23.1	813	26.4
30294	1800	454	5.1	482	6.3	508	7.5	556	10.0	600	12.3	644	14.9	689	17.7	733	20.9	776	24.1	817	27.5
31977	1900	473	5.7	499	7.0	525	8.3	572	10.9	614	13.3	656	15.9	698	18.7	740	21.9	782	25.2	822	28.7
33660	2000	493	6.4	518	7.7	542	9.0	588	11.8	629	14.4	669	17.0	709	19.9	749	23.0	789	26.3	828	29.9
37026	2200	533	8.0	555	9.3	578	10.7	621	13.8	661	16.8	698	19.6	734	22.5	770	25.6	807	28.9	843	32.5
40392	2400	574	9.8	594	11.2	615	12.7	656	16.0	694	19.3	730	22.5	763	25.6	796	28.7	829	32.0	863	35.6
43758	2600	616	11.9	634	13.4	652	15.0	691	18.4	728	22.0	762	25.6	795	29.1	826	32.4	856	35.7	887	39.3
47124	2800	658	14.4	674	16.0	691	17.6	727	21.2	762	25.0	796	28.9	827	32.8	857	36.5	886	40.0	914	43.6
50490	3000	700	17.2	716	18.8	731	20.6	764	24.3	797	28.3	830	32.4	860	36.6	889	40.7	917	44.7	944	48.5
53856	3200	743	20.3	757	22.1	772	23.9	802	27.8	833	32.0	864	36.3	894	40.8	922	45.2	950	49.6	976	53.8
57222	3400	786	23.9	799	25.8	813	27.7	841	31.7	870	36.0	900	40.6	928	45.2	956	49.9	983	54.7	1008	59.3
60588	3600	829	27.9	842	29.8	855	31.9	881	36.1	908	40.5	936	45.2	963	50.1	990	55.0	1016	60.0	1041	65.0
63954	3800	872	32.3	884	34.4	896	36.5	921	40.9	947	45.5	973	50.3	999	55.3	1025	60.5	1050	65.8	1075	71.1
	OV	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
33660	2000	867	33.5	904	37.3	940	41.2	1009	49.2	1074	57.6	1135	66.2	1194	75.0						
37026	2200	880	36.3	915	40.2	950	44.2	1017	52.6	1081	61.3	1141	70.3	1199	79.6	1255	89.1	1308	98.8		
40392	2400	896	39.4	930	43.3	963	47.5	1027	56.1	1089	65.2	1149	74.6	1206	84.3	1261	94.2	1313	104.3	1364	114.7
43758	2600	917	43.0	948	47.0	979	51.2	1040	60.0	1100	69.3	1158	79.0	1214	89.1	1268	99.4	1320	109.9	1370	120.7
47124	2800	942	47.3	971	51.3	1000	55.4	1057	64.3	1114	73.7	1170	83.7	1224	94.1	1277	104.8	1328	115.7	1377	126.9
50490	3000	971	52.3	997	56.2	1023	60.4	1077	69.2	1131	78.7	1184	88.8	1236	99.3	1287	110.3	1337	121.6	1386	133.2
53856	3200	1001	57.9	1026	62.0	1051	66.1	1100	74.8	1151	84.3	1201	94.4	1251	105.1	1300	116.2	1349	127.8	1396	139.7
57222	3400	1033	63.8	1057	68.2	1080	72.5	1127	81.3	1174	90.7	1221	100.8	1268	111.5	1315	122.7	1362	134.4	1408	146.5
60588	3600	1065	70.0	1089	74.8	1112	79.4	1156	88.6	1200	97.9	1244	108.0	1289	118.6	1333	129.9	1378	141.6	1422	153.9
63954	3800	1098	76.3	1121	81.5	1144	86.8	1187	96.4	1228	106.1	1270	116.1	1312	126.7	1354	137.9	1397	149.6	1439	161.8
67320	4000	1132	83.0	1154	88.6	1176	94.1	1219	104.7	1259	114.9	1299	125.1	1338	135.7	1378	146.8	1418	158.5	1458	170.8
70866	4200	1166	90.1	1188	96.0	1209	101.8	1251	113.3	1290	124.3	1329	135.0	1366	145.7	1404	156.8	1442	168.4		
74052	4400	1200	97.7	1222	103.8	1243	109.9	1284	122.1	1323	133.9	1360	145.4	1396	156.5	1432	167.8	1468	179.3		
77418	4600	1235	105.7	1256	112.0	1277	118.4	1317	131.2	1355	143.9	1392	156.1	1428	168.0	1462	179.7				
80784	4800	1271	114.3	1291	120.8	1311	127.4	1351	140.8	1388	154.1	1425	167.2	1460	179.9						

WHEEL	48 in. diameter	OUTLET	41-15/16x71-7/16 in. outside	20.54 sq. ft. inside area	MAXIMUM BHP = 95.5 ($\frac{\text{RPM}}{1000}$) ³	44½ DIDW
CLASS I RPM 817		CLASS II RPM 1066	CLASS III RPM 1344	TIP SPEED, fpm = 12.57 x RPM		

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20540	1000	284	2.2	321	3.1	357	4.1	425	6.3	486	8.8	540	11.5								
22594	1100	299	2.6	332	3.5	365	4.5	430	6.8	489	9.4	542	12.2	592	15.1						
24648	1200	314	3.0	345	3.9	375	4.9	435	7.3	493	10.0	545	12.9	594	16.0	639	19.2				
26702	1300	329	3.4	359	4.5	387	5.5	443	7.8	498	10.6	549	13.6	597	16.8	642	20.1	684	23.6		
28756	1400	344	3.9	374	5.0	400	6.1	452	8.5	504	11.3	554	14.4	600	17.7	645	21.1	686	24.7	726	28.4
30810	1500	360	4.4	389	5.6	415	6.9	463	9.2	511	12.0	559	15.2	605	18.6	648	22.2	689	25.9	728	29.7
32864	1600	376	4.9	404	6.3	429	7.6	475	10.1	520	12.9	565	16.1	610	19.5	652	23.2	693	27.0	731	31.0
34918	1700	393	5.5	419	6.9	444	8.4	488	11.1	531	13.9	573	17.1	616	20.6	657	24.3	697	28.2	735	32.3
36972	1800	410	6.2	435	7.7	459	9.2	502	12.1	542	15.0	583	18.1	623	21.7	663	25.5	702	29.5	739	33.6
39026	1900	428	7.0	451	8.5	475	10.1	517	13.2	555	16.2	593	19.4	631	22.9	670	26.7	707	30.8	744	35.0
41080	2000	445	7.8	468	9.4	490	11.0	532	14.4	569	17.6	605	20.7	641	24.2	677	28.0	714	32.1	749	36.5
45188	2200	482	9.7	502	11.3	522	13.1	562	16.8	598	20.5	631	23.9	664	27.4	697	31.2	730	35.3	763	39.7
49296	2400	519	11.9	537	13.7	555	15.5	593	19.5	627	23.5	660	27.5	690	31.2	720	35.0	750	39.1	780	43.4
53404	2600	556	14.5	572	16.3	590	18.3	624	22.5	658	26.9	689	31.2	718	35.5	746	39.5	774	43.6	802	47.9
57512	2800	594	17.5	609	19.4	625	21.5	657	25.8	689	30.5	719	35.2	748	39.9	775	44.5	801	48.8	828	53.2
61620	3000	632	20.9	646	22.9	661	25.1	690	29.7	720	34.5	750	39.6	777	44.7	804	49.7	829	54.5	853	58.2
65728	3200	671	24.8	684	26.9	697	29.2	725	33.9	753	39.0	781	44.3	808	49.7	834	55.1	858	60.5	882	65.8
69836	3400	710	29.1	722	31.4	734	33.7	760	38.7	786	43.9	813	49.4	839	55.1	864	60.9	888	66.7	911	72.3
73944	3600	749	33.9	760	36.4	772	38.8	796	43.9	820	49.4	846	55.1	870	61.0	895	67.1	918	73.2	941	78.3
78052	3800	788	39.3	799	41.9	810	44.4	832	49.8	855	55.4	879	61.3	903	67.5	926	73.8	949	80.2	971	86.7
41080	2000	784	41.0	817	45.6	850	50.3	882	55.4	912	60.1	941	65.3	968	70.5	995	75.8	1020	80.8	1044	86.1
45188	2200	795	44.3	828	49.1	859	54.0	890	59.2	920	64.2	947	69.4	973	74.7	998	79.9	1022	85.1	1045	90.4
49296	2400	811	48.1	841	52.9	871	58.0	900	63.2	929	68.6	957	73.9	983	79.1	1009	84.5	1033	89.8	1056	95.1
53404	2600	829	52.5	857	57.3	885	62.4	913	67.7	941	73.2	968	78.5	994	83.8	1019	89.1	1042	94.6	1064	100.0
57512	2800	852	57.7	878	62.6	904	67.6	930	72.8	956	78.4	981	83.6	1006	88.9	1030	94.2	1053	99.6	1075	105.3
61620	3000	877	63.8	901	68.6	925	73.8	949	78.8	973	83.8	996	88.8	1019	93.8	1041	98.8	1062	103.6	1083	110.0
65728	3200	905	70.6	927	75.6	950	80.6	973	85.6	995	90.6	1017	95.6	1038	100.6	1059	105.6	1079	110.6	1100	116.0
69836	3400	934	77.8	955	83.2	977	88.4	1000	93.2	1021	98.2	1041	103.2	1061	108.2	1080	113.2	1100	118.2	1119	123.2
73944	3600	963	85.3	984	91.2	1005	96.8	1025	101.8	1045	106.8	1064	111.8	1083	116.8	1101	121.8	1120	126.8	1139	128.8
78052	3800	993	93.1	1014	99.4	1034	105.6	1053	111.6	1072	117.6	1091	122.6	1109	127.6	1127	132.6	1145	137.6	1163	143.6
82160	4000	1023	101.3	1043	108.0	1063	114.7	1081	121.7	1100	127.7	1118	132.7	1135	137.7	1152	142.7	1169	147.7	1186	152.7
86268	4200	1054	109.9	1074	117.0	1093	124.2	1111	133.1	1129	138.1	1146	143.1	1163	148.1	1179	153.1	1195	158.1	1211	163.1
90376	4400	1085	119.1	1104	126.5	1123	134.0	1140	140.9	1157	145.9	1174	150.9	1190	155.9	1206	160.9	1222	165.9	1237	170.9
94484	4600	1116	128.9	1135	136.6	1154	144.4	1170	149.0	1187	153.6	1203	158.2	1218	162.8	1233	167.3	1248	171.8	1262	176.8
98592	4800	1148	139.3	1167	147.3	1185	155.4	1201	160.0	1217	164.6	1232	169.2	1247	173.8	1261	178.4	1275	182.9	1289	187.5

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

WHEEL	52-7/8 in. diameter	OUTLET	46-3/8x78-7/8 in. outside	25.04 sq. ft. inside area	MAXIMUM BHP = 154 (RPM / 1000) ³	49 DIDW
CLASS I RPM 742		CLASS II RPM 968	CLASS III RPM 1221	TIP SPEED, fpm = 13.84 x RPM		

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
25040	1000	259	2.7	292	3.7	324	4.9	386	7.7	441	10.7	490	14.0								
27544	1100	272	3.2	302	4.2	332	5.4	390	8.3	444	11.4	493	14.8	537	18.4						
30048	1200	286	3.6	314	4.8	341	6.0	396	8.9	448	12.2	495	15.7	539	19.4	581	23.3				
32552	1300	299	4.1	327	5.5	352	6.7	402	9.6	452	12.9	499	16.6	542	20.5	583	24.5	621	28.7		
35056	1400	314	4.7	340	6.1	364	7.5	411	10.3	458	13.7	503	17.5	546	21.5	586	25.7	623	30.1	659	34.5
37560	1500	328	5.3	354	6.9	377	8.4	421	11.3	465	14.7	508	18.5	549	22.6	589	27.0	626	31.5	662	36.1
40064	1600	343	6.0	368	7.6	391	9.3	432	12.3	473	15.7	514	19.6	554	23.8	593	28.2	629	32.9	664	37.7
42568	1700	358	6.8	382	8.5	404	10.2	444	13.5	483	16.9	521	20.8	560	25.0	597	29.6	633	34.3	668	39.3
45072	1800	374	7.6	396	9.4	418	11.2	457	14.8	493	18.3	530	22.1	566	26.4	602	31.0	637	35.8	671	40.9
47576	1900	390	8.5	411	10.4	432	12.3	471	16.2	505	19.8	540	23.6	574	27.9	609	32.5	643	37.4	676	42.6
50080	2000	406	9.5	426	11.4	446	13.4	484	17.6	518	21.5	550	25.3	583	29.5	616	34.2	649	39.1	681	44.4
55088	2200	439	11.9	457	13.9	476	16.0	512	20.5	544	25.0	574	29.2	604	33.4	634	38.0	663	43.0	693	48.3
60096	2400	473	14.6	489	16.7	506	19.0	540	23.8	571	28.7	601	33.6	628	38.1	655	42.7	682	47.6	709	52.9
65104	2600	507	17.8	522	20.0	537	22.4	569	27.5	599	32.8	627	38.2	654	43.3	679	48.2	704	53.2	729	58.4
70112	2800	542	21.4	556	23.8	570	26.3	598	31.6	627	37.3	655	43.0	681	48.8	705	54.3	729	59.6	752	64.9
75120	3000	577	25.6	590	28.1	602	30.7	629	36.3	656	42.2	683	48.3	708	54.5	732	60.7	755	66.6	777	72.3
80128	3200	612	30.4	624	33.0	636	35.7	661	41.5	686	47.7	711	54.1	736	60.7	759	67.3	782	73.8	803	80.2
85136	3400	648	35.7	659	38.5	670	41.3	693	47.3	717	53.7	741	60.4	764	67.4	787	74.4	809	81.4	830	88.3
90144	3600	683	41.7	694	44.6	704	47.6	726	53.8	748	60.4	770	67.4	793	74.6	815	82.0	838	88.4	857	96.9
95152	3800	719	48.3	729	51.4	739	54.5	759	61.0	780	67.8	801	75.0	822	82.5	844	90.2	864	98.0	885	105.9
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
50080	2000	712	49.8	743	55.5	772	61.2	829	73.1	882	85.5	933	98.2	981	111.4						
55088	2200	723	53.9	752	59.7	781	65.7	838	78.1	888	91.1	938	104.8	985	118.2						
60096	2400	737	58.5	784	64.4	791	70.5	844	83.4	895	96.9	944	110.8	991	125.2	1036	139.9	1079	154.9		
65104	2600	754	64.0	780	69.9	805	76.1	855	89.1	904	103.0	952	117.4	998	132.3	1042	147.6	1084	163.3	1121	170.3
70112	2800	775	70.5	798	76.3	822	82.4	869	95.5	915	108.6	961	124.4	1006	139.7	1049	155.6	1091	171.8	1132	188.4
75120	3000	799	78.0	820	83.8	842	89.9	885	102.9	929	117.0	973	132.0	1016	147.6	1058	163.9	1099	180.6	1139	197.8
80128	3200	824	86.3	844	92.3	864	98.4	905	111.4	946	125.4	987	140.4	1028	156.2	1068	172.7	1108	189.9	1147	207.5
85136	3400	850	95.1	870	101.6	889	108.0	927	121.0	965	135.0	1004	149.3	1043	165.8	1081	182.4	1119	199.7	1157	217.7
90144	3600	877	104.2	896	111.4	915	118.3	951	131.9	987	145.8	1023	160.7	1060	176.5	1096	193.1	1133	210.9	1169	228.7
95152	3800	904	113.7	923	121.5	941	129.1	976	143.7	1011	158.0	1045	172.8	1079	188.5	1114	205.1	1148	222.5	1183	240.7
100160	4000	932	123.7	950	132.0	968	140.1	1003	156.0	1036	171.3	1068	186.4	1100	202.0	1133	218.5	1166	235.9	1199	254.0
105168	4200	960	134.3	978	143.0	995	151.7	1029	168.7	1062	185.2	1093	201.1	1124	217.0	1155	233.4	1186	250.7		
110176	4400	988	145.5	1006	154.6	1023	163.7	1056	181.9	1088	199.6	1119	216.6	1149	233.2	1178	249.8	1208	267.1		
115184	4600	1017	157.5	1034	166.9	1051	176.4	1084	195.5	1115	214.3	1146	232.7	1175	250.3	1203	267.7				
120192	4800	1046	170.3	1063	180.1	1079	189.9	1112	209.7	1143	229.6	1172	249.1	1201	268.1						

54 1/4 DIDW	WHEEL	58-1/2 in. diameter	OUTLET	51-1/4x86-3/4 in. outside	30.56 sq. ft. inside area	MAXIMUM BHP = 257 ($\frac{RPM}{1000}$)³
	CLASS I RPM 670		CLASS II RPM 875	CLASS III RPM 1103	TIP SPEED, fpm = 15.32 x RPM	

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
30560	1000	233	3.3	263	4.5	293	6.0	349	9.4	398	13.1	443	17.1								
33616	1100	245	3.8	272	5.1	299	6.6	352	10.1	401	14.0	445	18.1	485	22.5						
36672	1200	257	4.4	283	5.8	308	7.3	357	10.8	404	14.8	447	19.2	487	23.7						
39728	1300	270	5.0	295	6.6	317	8.1	363	11.7	408	15.8	450	20.3	490	25.0	524	28.5				
42784	1400	283	5.7	307	7.5	329	9.1	371	12.6	413	16.8	454	21.4	493	26.3	529	31.4	563	36.7		42.2
45840	1500	296	6.5	319	8.3	340	10.2	380	13.7	419	17.9	459	22.6	496	27.6	532	32.9	565	38.4	597	44.1
48896	1600	309	7.3	332	9.3	352	11.3	390	15.0	427	19.2	464	23.9	500	29.0	535	34.5	568	40.2	600	46.0
51952	1700	323	8.2	344	10.3	364	12.4	401	16.5	435	20.6	470	25.3	505	30.5	539	36.1	572	42.0	603	48.0
55008	1800	337	9.2	357	11.4	377	13.7	412	18.1	445	22.3	478	27.0	511	32.2	544	37.8	576	43.8	606	50.0
58064	1900	351	10.4	370	12.6	389	15.0	424	19.7	456	24.1	487	28.8	518	34.0	549	39.7	580	45.7	610	52.0
61120	2000	366	11.6	384	13.9	402	16.4	436	21.4	467	26.1	496	30.8	526	36.0	556	41.7	585	47.8	615	54.2
67232	2200	395	14.4	412	16.9	429	19.5	461	25.0	491	30.4	518	35.6	545	40.7	572	46.4	599	52.5	626	59.0
73344	2400	426	17.7	441	20.3	456	23.1	486	29.0	515	35.0	541	40.9	566	46.4	591	52.1	615	58.1	640	64.6
79456	2600	457	21.6	470	24.3	484	27.2	512	33.4	540	39.9	565	46.5	590	52.8	612	58.8	635	64.8	658	71.3
85568	2800	488	26.0	500	28.9	513	32.0	539	38.5	565	45.4	590	52.4	614	59.4	636	66.1	657	72.6	678	79.1
91680	3000	519	31.1	531	34.2	542	37.3	567	44.1	591	51.4	615	58.9	638	66.4	660	73.9	680	81.1	700	88.0
97792	3200	551	36.9	562	40.1	572	43.4	595	50.5	618	58.0	641	65.9	663	73.9	684	82.0	704	90.0	724	97.6
103904	3400	583	43.3	593	46.7	603	50.2	624	57.6	645	65.4	667	73.6	689	82.1	709	90.6	729	99.2	748	107.8
110016	3600	615	50.6	624	54.1	634	57.8	653	65.4	673	73.5	694	82.0	714	90.9	734	99.9	754	109.0	772	118.0
116128	3800	647	58.6	656	62.4	665	66.2	683	74.1	702	82.5	721	91.3	741	100.4	760	109.8	779	119.4	797	129.0
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
61120	2000	643	60.9	671	67.8	697	74.8	748	89.4	797	104.5	842	120.1	886	136.2						
67232	2200	653	65.8	679	72.9	705	80.3	754	95.5	802	111.4	847	127.7	890	144.5	931	161.8	970	179.4		
73344	2400	665	71.5	690	78.7	714	86.2	762	101.9	808	118.4	852	135.5	895	153.0	935	171.0	974	189.4	1012	208.3
79456	2600	681	78.1	703	85.3	726	92.9	772	108.9	816	125.8	859	143.5	901	161.8	941	180.5	979	199.6	1017	219.2
85568	2800	699	85.9	720	93.1	741	100.6	784	116.7	826	133.9	868	152.0	908	170.8	947	190.2	985	210.1	1022	230.4
91680	3000	720	95.0	739	102.1	759	109.8	799	125.8	839	142.8	878	161.2	917	180.4	955	200.3	992	220.8	1028	241.9
97792	3200	743	105.1	761	112.4	779	119.9	816	135.8	854	153.0	891	171.4	928	190.8	964	211.1	1000	232.0	1036	253.6
103904	3400	766	115.8	784	123.8	801	131.6	836	147.5	871	164.6	906	182.9	941	202.4	976	222.8	1010	244.0	1045	266.0
110016	3600	790	127.0	808	135.7	825	144.1	857	160.7	890	177.7	923	196.0	956	215.4	989	235.8	1022	257.2	1055	279.4
116128	3800	815	138.5	832	148.0	848	157.2	880	175.0	911	192.6	942	210.7	973	230.0	1005	250.3	1036	271.7	1068	294.0
122240	4000	840	150.7	856	160.8	873	170.7	904	190.1	934	208.6	963	227.1	993	246.3	1022	266.5	1052	287.8	1082	310.1
128352	4200	865	163.8	881	174.2	897	184.8	928	205.6	957	225.6	986	245.0	1014	264.4	1041	284.6	1070	305.8		
134464	4400	890	177.2	906	188.3	922	199.5	952	221.6	981	243.1	1009	263.9	1036	284.1	1062	304.6	1089	325.5		
140576	4600	916	191.8	932	203.3	947	214.9	977	238.2	1005	261.1	1033	283.4	1059	305.0	1085	326.2				
146688	4800	942	207.4	958	219.3	973	231.3	1002	255.5	1030	279.7	1057	303.5	1083	326.6						

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

60 DIDW	WHEEL	64-3/4 in. diameter	OUTLET	56-5/8x95-3/4 in. outside	37.28 sq. ft. inside area	MAXIMUM BHP = 425 ($\frac{RPM}{1000}$)³
	CLASS I RPM 606		CLASS II RPM 791	CLASS III RPM 997	TIP SPEED, fpm = 16.95 x RPM	

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
37280	1000	211	4.0	238	5.5	265	7.3	315	11.5	360	16.0	400	20.8								
41008	1100	221	4.7	246	6.3	270	8.0	319	12.3	362	17.0	402	22.1	439	27.4						
44736	1200	232	5.4	256	7.1	278	8.9	323	13.2	365	18.1	404	23.4	441	29.0	474	34.8				
48464	1300	244	6.1	266	8.1	287	9.9	328	14.2	369	19.2	407	24.7	443	30.5	476	36.6	507	42.8		
52192	1400	255	7.0	277	9.1	297	11.1	335	15.4	373	20.5	410	26.1	445	32.1	478	38.4	509	44.9	538	51.6
55920	1500	267	7.9	288	10.2	307	12.4	343	16.7	379	21.8	414	27.6	448	33.7	481	40.2	511	46.9	540	53.9
59648	1600	279	8.9	299	11.3	318	13.7	352	18.3	386	23.4	419	29.2	452	35.5	484	42.1	514	49.1	542	56.2
63376	1700	291	10.0	311	12.5	329	15.2	362	20.1	393	25.1	425	30.9	457	37.3	487	44.1	517	51.2	545	58.6
67104	1800	304	11.2	323	13.9	340	16.6	372	22.0	402	27.1	432	32.9	462	39.3	492	46.2	520	53.5	548	61.0
70832	1900	317	12.6	334	15.3	352	18.2	383	24.0	412	29.4	440	35.1	468	41.5	496	48.4	524	55.8	551	63.5
74560	2000	330	14.1	347	16.9	363	19.9	394	26.1	422	31.8	448	37.6	475	43.9	502	50.9	529	58.3	555	66.2
82016	2200	357	17.5	372	20.5	387	23.7	416	30.4	443	37.1	468	43.3	492	49.7	516	56.6	541	64.0	566	72.0
89472	2400	384	21.5	398	24.7	411	28.1	439	35.3	465	42.7	489	49.8	511	56.6	533	63.4	556	70.9	578	78.8
96928	2600	412	26.2	424	29.6	437	33.1	463	40.7	487	48.7	511	56.6	532	64.3	553	71.6	574	79.0	594	86.9
104384	2800	440	31.6	451	35.2	463	38.9	487	46.8	510	55.3	533	63.9	554	72.4	574	80.6	593	88.5	612	96.4
111840	3000	468	37.8	479	41.5	489	45.4	511	53.7	534	62.6	556	71.7	576	81.0	596	90.0	614	98.8	633	107.3
119296	3200	497	44.8	507	48.7	517	52.8	537	61.4	558	70.6	579	80.3	599	90.1	618	99.9	636	109.6	654	119.0
126752	3400	526	52.7	535	56.8	544	61.1	563	70.0	583	79.6	602	89.6	622	100.0	640	110.4	658	120.9	675	131.2
134208	3600	555	61.5	563	65.8	572	70.3	589	79.6	608	89.5	626	99.9	645	110.7	663	121.7	681	132.8	697	143.8
141664	3800	583	71.2	592	75.8	600	80.5	618	90.2	634	100.4	651	111.2	669	122.3	688	133.8	703	145.4	720	157.2
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
74560	2000	581	74.3	606	82.8	630	91.4	677	109.2	720	127.8	761	148.7	801	166.3						
82016	2200	590	80.3	614	89.0	637	98.0	682	116.8	725	136.0	766	155.9	804	176.5	842	197.6	877	219.2		
89472	2400	601	87.2	623	96.0	646	105.2	689	124.4	731	144.6	771	165.4	809	186.9	846	208.9	881	231.4	915	254.4
96928	2600	615	95.2	636	104.1	657	113.3	698	132.9	738	153.8	777	175.2	814	197.5	851	220.9	885	243.8	919	267.7
104384	2800	631	104.7	651	113.5	670	122.7	709	142.4	747	163.4	784	185.5	821	208.5	856	232.2	891	256.5	924	281.3
111840	3000	650	115.7	668	124.4	686	133.6	722	153.2	758	174.3	794	196.7	829	220.2	863	244.6	897	269.6	930	295.3
119296	3200	671	128.0	687	137.0	704	146.2	737	165.6	771	186.7	805	209.2	839	232.9	872	257.6	904	283.3	936	309.6
126752	3400	692	141.1	708	150.8	724	160.3	755	179.8	787	200.8	818	223.2	850	247.0	882	271.9	913	297.9	944	324.8
134208	3600	714	154.7	729	165.3	745	175.6	774	195.9	804	216.8	834	239.8	864	262.7	894	287.7	924	313.9	954	341.0
141664	3800	736	168.8	751	180.3	766	191.6	795	213.3	823	234.7	851	256.8	879	280.4	908	305.3	936	331.5	965	358.8
149120	4000	758	183.6	773	195.9	788	208.1	816	231.6	843	254.2	870	276.8	897	300.2	923	325.0	950	351.1	978	378.3
156576	4200	781	199.3	796	212.3	810	225.2	838	250.5	864	274.9	890	298.5	915	322.3	941	346.9	966	372.8		
164032	4400	804	215.9	818	229.5	832	243.1	860	270.8	886	298.2	911	321.5	935	346.2	960	371.2	984	396.9		
171488	4600	827	233.7	841	247.7	855	261.9	882	290.2	908	318.2	932	345.4	956	371.6	980	397.4				
178944	4800	851	252.6	865	267.1	878	281.8	905	311.4	930	340.9	954	369.8	978	398.0						

WHEEL	71-3/16 in. diameter	OUTLET	62-3/8x105-7/8 in. outside	45.49 sq. ft. inside area	MAXIMUM BHP = $685 \left(\frac{\text{RPM}}{1000}\right)^3$	66 DIDW
CLASS I RPM 551			CLASS II RPM 719	CLASS III RPM 906	TIP SPEED, fpm = 18.64 x RPM	

CFM	OV FPM	1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
45490	1000	192	4.9	216	6.7	241	8.9	287	13.9	327	19.4	384	25.3								
50039	1100	202	5.7	224	7.6	246	9.8	290	14.9	330	20.7	366	26.9	399	33.3						
54588	1200	212	6.6	233	8.7	253	10.9	294	16.1	332	22.0	368	28.4	401	35.2	431	42.3				
59137	1300	223	7.5	243	9.9	262	12.1	299	17.3	336	23.4	370	30.1	403	37.1	433	44.4	461	52.0		
63686	1400	233	8.5	253	11.1	271	13.6	305	18.8	340	24.9	373	31.8	405	39.0	435	46.6	463	54.5	489	62.7
68235	1500	244	9.6	263	12.4	280	15.2	313	20.4	345	26.6	377	33.5	408	41.0	437	48.9	465	57.1	491	65.5
72784	1600	255	10.9	273	13.8	290	16.8	321	22.4	351	28.5	382	35.5	411	43.1	440	51.2	467	59.6	493	68.3
77333	1700	266	12.3	284	15.3	300	18.5	330	24.6	358	30.7	387	37.7	416	45.4	443	53.6	470	62.3	496	71.2
81882	1800	278	13.8	295	17.0	311	20.4	340	26.9	367	33.2	393	40.1	421	47.8	447	56.2	473	65.0	498	74.2
86431	1900	290	15.5	306	18.8	321	22.3	350	29.4	375	35.9	401	42.9	426	50.6	452	59.0	477	67.9	502	77.3
90980	2000	302	17.3	317	20.7	332	24.4	360	31.9	385	38.9	409	45.9	433	53.6	457	62.0	482	71.0	505	80.5
100078	2200	326	21.5	340	25.2	353	29.0	380	37.2	404	45.4	427	53.0	448	60.7	471	69.1	493	78.1	515	87.7
109176	2400	351	26.5	364	30.3	376	34.4	401	43.2	424	52.2	446	61.0	467	69.2	486	77.6	507	86.5	527	96.1
118274	2600	377	32.3	388	36.3	399	40.7	423	49.9	445	59.6	466	69.3	486	78.7	505	87.7	523	96.7	542	106.1
127372	2800	403	39.0	413	43.3	423	47.8	445	57.4	466	67.7	486	78.2	506	88.6	524	98.7	541	108.3	559	118.0
136470	3000	429	46.6	438	51.1	448	55.8	467	65.9	488	76.7	507	87.8	526	99.1	544	110.2	561	121.0	577	131.3
145568	3200	455	55.2	464	60.0	473	64.9	491	75.4	510	86.6	529	98.3	547	110.3	564	122.3	581	134.2	597	145.7
154666	3400	481	64.9	490	70.0	498	75.2	515	86.1	532	97.7	550	109.8	568	122.4	585	135.2	601	148.0	616	160.5
163764	3600	508	75.8	515	81.1	523	86.5	539	97.9	556	109.9	572	122.5	589	135.6	608	149.0	621	162.5	637	176.1
172862	3800	534	87.8	542	93.4	549	99.1	564	110.9	579	123.3	595	136.4	611	149.9	627	163.9	642	178.1	657	192.4
CFM	OV FPM	5" SP		5-1/2" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
90980	2000	529	90.4	551	100.7	573	111.1	615	132.7	655	155.2	692	178.3	728	202.2						
100078	2200	537	97.8	558	108.3	580	119.2	620	141.9	659	165.4	696	188.6	731	214.6	765	240.2	798	266.4		
109176	2400	547	106.3	567	117.0	588	128.1	627	151.4	665	175.9	701	201.2	736	227.2	769	253.9	801	281.3	832	309.2
118274	2600	560	116.2	579	126.9	598	138.1	635	161.7	671	186.8	707	213.2	741	240.2	774	268.0	805	296.4	836	325.5
127372	2800	576	128.0	593	138.6	610	149.7	645	173.5	680	199.0	714	225.8	747	253.7	779	282.5	810	312.0	840	342.1
136470	3000	593	141.6	609	152.2	625	163.2	658	186.9	690	212.4	722	239.6	754	268.0	785	297.8	816	328.0	846	359.1
145568	3200	612	156.8	627	167.7	642	178.8	672	202.3	703	227.8	733	255.0	763	283.7	793	313.6	823	344.7	852	376.7
154666	3400	631	172.8	646	184.6	660	196.3	689	219.9	717	245.2	746	272.3	774	301.0	803	331.3	831	362.7	859	395.3
163764	3600	651	189.4	666	202.4	680	215.0	708	239.8	733	265.0	760	291.9	787	320.6	814	350.8	841	382.4	868	415.4
172862	3800	672	206.7	686	220.7	699	234.5	725	261.1	751	287.2	776	314.0	801	342.5	827	372.6	853	404.2	878	437.2
181960	4000	692	224.8	706	239.8	719	254.7	745	283.6	769	311.2	794	338.8	817	367.0	842	397.0	866	428.5	890	461.4
191058	4200	713	244.0	726	259.8	740	275.6	765	306.7	789	336.6	812	365.5	835	394.4	858	424.1	881	455.5		
200156	4400	734	264.5	747	281.0	760	297.6	785	330.5	809	362.7	831	393.7	853	423.9	875	454.2				
209254	4600	756	286.3	768	303.4	781	320.7	805	355.3	829	389.5	851	422.9	873	455.0	894	486.6				
218352	4800	777	309.6	790	327.3	802	345.1	826	381.2	849	417.2	871	452.7	892	487.3						

Performances shown is for installation type B: Free inlet, ducted outlet. • Power ratings (BHP) do not include drive losses. • Performance ratings do not include the effects of appurtenances in the air stream.

WHEEL	78-3/4 in. diameter	OUTLET	69 x 117 in. outside	55.48 sq. ft. inside area	MAXIMUM BHP = $1133 \left(\frac{\text{RPM}}{1000}\right)^3$	73 DIDW
CLASS I – RPM 498			CLASS II – RPM 650			TIP SPEED, fpm = 20.62 x RPM

CFM	OV	1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP	
	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
49932	900	140	3.1	165	5.0	190	7.3	214	9.9	257	15.8	294	22.2								
55480	1000	150	3.7	174	5.9	196	8.2	218	10.8	259	17.0	296	23.7	329	30.9						
61028	1100	159	4.4	183	6.9	203	9.2	223	11.9	262	18.2	298	25.2	331	32.7	361	40.7				
66576	1200	170	5.2	192	7.9	211	10.5	229	13.2	265	19.5	300	26.8	332	34.7	362	42.9	390	51.6		
72124	1300	180	6.2	201	9.1	219	12.0	236	14.7	270	21.1	303	28.5	335	36.7	364	45.2	391	54.2	417	63.5
77672	1400	191	7.3	210	10.3	228	13.5	244	16.5	276	22.8	307	30.3	338	38.7	366	47.8	393	56.9	418	66.5
83220	1500	202	8.5	220	11.7	237	15.1	253	18.4	282	24.9	312	32.4	341	40.9	369	50.0	395	59.7	420	69.6
88768	1600	213	9.9	230	13.2	247	16.8	262	20.4	290	27.2	317	34.7	345	43.3	372	52.6	398	62.5	422	72.8
94316	1700	224	11.4	240	14.9	256	18.6	271	22.5	298	29.9	324	37.4	350	45.9	376	55.3	401	65.4	425	76.0
99864	1800	236	13.1	251	16.7	266	20.6	280	24.7	307	32.7	331	40.4	355	48.9	380	58.3	404	68.5	428	79.3
105412	1900	248	15.0	261	18.7	276	22.8	290	27.1	316	35.7	339	43.7	362	52.2	385	61.8	408	71.9	431	82.9
110960	2000	259	17.2	272	21.0	286	25.2	299	29.6	325	38.8	347	47.4	369	55.9	391	65.3	413	75.6	435	86.6
122056	2200	283	22.0	294	26.1	307	30.6	319	35.3	343	45.3	365	55.2	385	64.5	405	73.9	425	84.1	445	95.2
133152	2400	306	27.7	317	32.1	328	36.9	339	41.9	362	52.5	383	63.5	403	74.2	421	84.3	439	94.5	458	105.4
144248	2600	330	34.4	340	39.2	350	44.1	360	49.4	381	60.7	402	72.5	421	84.4	439	95.8	456	106.7	472	117.7
155344	2800	354	42.2	363	47.3	372	52.5	382	58.0	401	68.8	421	82.4	439	95.2	457	107.9	473	120.1	489	131.9
166440	3000	378	51.1	387	56.5	395	62.1	404	67.8	422	80.2	440	93.3	458	108.9	475	120.7	491	134.2	506	147.3
177536	3200	402	61.2	410	67.0	418	72.9	426	78.9	443	91.7	460	105.4	477	119.7	483	134.3	509	148.0	524	163.4
188632	3400	426	72.7	434	78.8	441	85.0	449	91.3	464	104.8	480	118.8	497	133.7	512	148.9	528	164.6	542	180.2
199728	3600	450	85.5	458	92.0	465	98.5	472	105.1	488	119.0	501	133.6	517	149.1	532	165.1	547	181.4	561	197.9
210824	3800	474	99.7	482	106.8	489	113.5	495	120.4	509	134.8	523	150.0	537	165.9	551	182.5	566	189.5	580	210.9
CFM	OV	4-1/2" SP		5" SP		5-1/2" SP		6" SP		6-1/2" SP		7" SP		7-1/2" SP		8" SP		8-1/2" SP		9" SP	
	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
88768	1600	446	83.4	468	94.3	490	105.5	511	117.0	531	128.7										
94316	1700	448	86.9	470	98.32	492	108.7	512	121.6	532	133.6	551	146.0								
99864	1800	451	90.6	472	102.1	494	114.0	514	126.2	534	138.6	553	151.3	571	164.2	589	177.3				
105412	1900	453	94.3	475	106.2	496	118.4	516	130.9	535	143.6	554	156.8	573	169.8	590	183.3	608	197.0	625	210.9
110960	2000	457	98.2	478	110.3	498	122.8	518	135.6	538	148.7	556	162.0	574	175.6	592	188.4	609	203.5	626	217.7
122056	2200	465	106.9	485	119.3	505	132.2	524	145.5	543	159.2	561	173.2	579	187.4	596	201.9	613	216.6	629	231.5
133152	2400	476	117.2	494	129.6	513	142.7	531	156.3	549	170.3	567	184.8	584	199.6	601	214.7	617	230.0	634	245.8
144248	2600	489	129.3	506	141.7	523	154.8	540	168.4	557	182.7	574	197.4	590	212.6	607	228.2	623	244.0	639	260.2
155344	2800	504	143.7	520	155.9	536	168.9	551	182.5	567	196.8	583	211.6	599	227.0	614	242.8	630	258.0		
166440	3000	521	159.9	536	172.5	550	185.4	565	198.9	579	213.1	594	227.9	609	243.2	624	258.1	638	275.5		
177536	3200	539	177.4	553	190.9	568	204.2	580	217.8	593	231.9	607	246.8	621	261.8	636	277.7				
188632	3400	556	195.5	570	210.4	583	224.8	596	239.0	609	253.3	622	267.9	635	283.1						
199728	3600	575	214.4	588	230.6	601	246.5	614	261.8	626	276.9	638	282.0								
210824	3800	593	234.3	606	251.7	619	268.8	631	285.6	643	302.0										
221920	4000	612	255.4	625	273.8	637	292.1														
233016	4200	631	278.0	644	297.2																

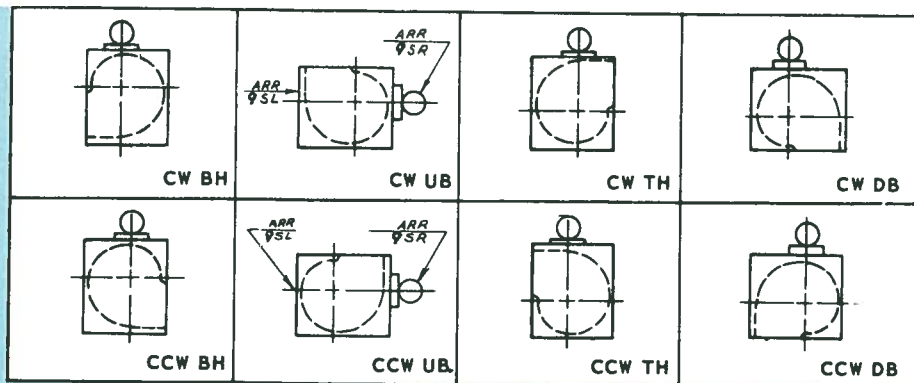
80³/₄ DIDW	WHEEL	87-1/8 in. diameter	OUTLET	76-1/8x128-7/8 in. outside	67.70 sq. ft. inside area	MAXIMUM BHP = 1877 ($\frac{RPM}{1000}$)³
CLASS I – RPM 450				CLASS II – RPM 588		TIP SPEED, fpm = 22.81 x RPM

CFM	OV FPM	1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
60930	900	127	3.8	149	6.2	172	8.9	193	12.1	232	19.3	266	27.1								
67700	1000	135	4.5	157	7.2	177	10.0	197	13.2	234	20.7	268	28.9								
74470	1100	144	5.4	165	8.4	183	11.3	201	14.5	237	22.2	269	30.8	298	40.0	326	49.7				
81240	1200	153	6.4	173	9.7	190	12.8	207	16.1	240	23.9	272	32.8	301	42.4	327	52.4	352	63.0		
88010	1300	163	7.5	181	11.0	198	14.6	213	17.9	244	25.7	274	34.8	303	44.8	329	55.3	354	66.2	377	77.6
94780	1400	172	8.8	190	12.5	206	16.4	221	20.1	249	27.8	278	37.1	305	47.3	331	58.2	355	69.5	378	81.3
101550	1500	182	10.3	199	14.2	214	18.4	229	22.4	255	30.3	282	39.5	308	49.9	333	61.1	357	72.9	380	85.1
108320	1600	192	12.0	208	16.0	223	20.5	237	24.9	262	33.2	287	42.4	312	52.8	336	64.2	359	76.3	382	88.9
115090	1700	203	13.9	217	18.1	231	22.7	245	27.5	269	36.4	292	45.6	316	56.0	339	67.6	362	79.9	384	92.8
121860	1800	213	16.0	226	20.3	240	25.1	253	30.2	277	39.9	299	49.2	321	59.6	343	71.2	365	83.7	387	96.9
128630	1900	223	18.3	236	22.8	249	27.8	262	33.0	285	43.5	306	53.3	327	63.7	348	75.2	369	87.8	390	101.2
135400	2000	234	20.9	246	25.6	258	30.7	270	36.1	293	47.3	314	57.8	333	68.2	353	79.7	373	92.3	393	105.8
142170	2100	245	23.6	256	31.8	277	37.2	288	43.0	310	55.2	330	67.3	348	78.7	366	90.1	384	102.6	402	116.1
148940	2200	255	26.8	266	34.9	286	40.1	297	46.1	319	58.3	341	70.4	360	82.5	377	94.2	397	104.7	414	118.6
155710	2300	266	30.1	277	39.1	296	44.9	306	51.0	327	64.0	346	77.4	364	90.4	380	102.7	397	115.2	413	128.6
162480	2400	276	33.7	286	43.1	306	48.7	316	54.6	337	67.7	356	80.9	374	94.0	390	105.8	407	117.8	427	133.1
169250	2500	286	37.4	296	47.7	316	53.7	325	60.2	344	73.9	363	88.4	380	102.8	396	116.7	411	130.1	427	143.5
176020	2600	298	41.9	307	52.1	327	64.6	336	66.6	355	78.1	374	92.9	391	106.9	407	121.1	422	136.1	441	160.8
182790	2700	309	46.1	318	57.5	336	63.9	345	70.7	362	85.1	380	100.4	396	116.0	412	131.5	427	146.4	441	160.8
189560	2800	319	51.3	328	63.9	347	70.7	355	76.1	371	90.3	391	105.1	407	121.1	422	136.1	437	151.1	451	178.5
196330	2900	329	56.6	339	75.5	357	75.5	364	82.6	381	97.6	397	113.7	413	130.3	429	147.1	443	163.6	457	178.5
203100	3000	341	62.1	349	68.8	357	75.5	364	82.6	381	97.6	397	113.7	413	130.3	429	147.1	443	163.6	457	178.5
209870	3100	353	67.6	360	75.9	369	81.9	375	88.9	400	111.7	415	128.4	431	145.8	445	163.7	460	181.6	473	199.2
216640	3200	363	74.5	370	81.5	377	88.6	385	96.0	400	111.7	415	128.4	431	145.8	445	163.7	460	181.6	473	199.2
223410	3300	374	81.5	381	88.5	388	95.9	398	103.4	405	111.1	419	127.4	434	144.7	448	162.9	463	181.6	476	200.7
230180	3400	384	88.3	392	95.9	398	103.4	405	111.1	419	127.4	434	144.7	448	162.9	463	181.6	480	201.1	506	241.3
236950	3500	406	103.9	413	111.9	419	119.8	426	127.9	439	144.8	452	162.8	466	181.6	480	201.1	493	221.1	506	241.3
243720	3600	417	111.9	424	119.9	430	127.9	437	134.8	450	154.8	463	172.8	477	191.6	491	211.1	504	231.1	517	251.3
250490	3700	428	121.2	434	129.6	441	138.0	447	146.5	459	164.0	472	182.6	485	202.1	498	222.4	511	243.2	523	264.3
257260	3800	439	131.2	445	139.6	452	148.0	459	154.5	471	172.0	484	192.6	497	212.1	510	232.4	523	253.2	536	274.3
264030	3900	450	141.2	456	149.6	463	156.0	470	162.5	482	180.0	495	200.6	508	222.1	521	242.4	534	263.2	547	284.3
270800	4000	461	151.2	467	159.6	474	164.0	481	170.5	493	189.0	506	210.6	519	232.1	532	252.4	545	273.2	558	294.3
277570	4100	472	161.2	478	168.0	485	172.0	492	178.5	504	198.0	517	220.6	530	242.1	543	262.4	556	283.2	569	304.3
284340	4200	483	171.2	489	176.0	496	178.0	503	184.5	515	208.0	528	230.6	541	252.1	554	272.4	567	293.2	580	314.3
291110	4300	494	181.2	500	185.6	507	188.0	514	194.5	526	218.0	539	240.6	552	262.1	565	282.4	578	303.2	591	324.3
297880	4400	505	191.2	511	195.6	518	198.0	525	204.5	537	228.0	550	250.6	563	272.1	576	292.4	589	313.2	602	334.3
304650	4500	516	201.2	522	205.6	529	208.0	536	211.5	548	238.0	561	260.6	574	282.1	587	302.4	600	323.2	613	344.3
311420	4600	527	211.2	533	215.6	540	218.0	547	224.5	559	248.0	572	270.6	585	292.1	598	312.4	611	333.2	624	354.3
318190	4700	538	221.2	544	225.6	551	228.0	558	231.5	570	258.0	583	280.6	596	302.1	609	322.4	622	343.2	635	364.3
324960	4800	549	231.2	555	235.6	562	238.0	569	234.5	581	268.0	594	290.6	607	312.1	620	332.4	633	353.2	646	374.3
331730	4900	560	241.2	566	245.6	573	248.0	580	251.5	592	278.0	605	300.6	618	322.1	631	342.4	644	363.2	657	384.3
338500	5000	571	251.2	577	255.6	584	258.0	591	254.5	603	288.0	616	310.6	629	332.1	642	352.4	655	373.2	668	394.3
345270	5100	582	261.2	588	265.6	595	268.0	602	261.5	614	298.0	627	320.6	640	342.1	653	362.4	666	383.2	679	404.3
352040	5200	593	271.2	599	275.6	606	278.0	613	264.5	625	306.0	638	330.6	651	352.1	664	372.4	677	393.2	690	414.3
358810	5300	604	281.2	610	285.6	617	288.0	624	268.5	636	314.0	649	340.6	662	362.1	675	382.4	688	403.2	701	424.3
365580	5400	615	291.2	621	295.6	628	298.0	635	272.5	647	322.0	660	350.6	673	372.1	686	392.4	699	413.2	712	434.3
372350	5500	626	301.2	632	305.6	639	308.0	646	276.5	658	330.0	671	358.6	684	382.1	697	402.4	710	423.2	723	444.3
379120	5600	637	311.2	643	315.6	650	312.0	657	280.5	669	338.0	682	368.6	695	392.1	708	412.4	721	433.2	734	454.3
385890	5700	648	321.2	654	325.6	661	322.0	668	284.5	680	346.0	693	378.6	706	402.1	719	422.4	732	443.2	745	464.3
392660	5800	659	331.2	665	335.6	672	326.0	679	288.5	691	354.0	704	388.6	717	412.1	730	432.4	743	453.2	756	474.3
399430	5900	670	341.2	676	345.6	683	328.0	690	292.5	702	362.0	715	398.6	728	422.1	741	442.4	754	463.2	767	484.3
406200	6000	681	351.2	687	355.6	694	332.0	701	296.5	713	370.0	726	408.6	739	432.1	752	452.4	765	473.2	778	494.3
412970	6100	692	361.2	698	365.6	705	336.0	712	300.5	724	378.0	737	418.6	750	442.1	763	462.4	776	483.2	789	504.3
419740	6200	703	371.2	709	375.6	716	340.0	723	304.5	735	386.0	748	428.6	761	452.1	774	472.4	787	493.2	800	514.3
426510	6300	714	381.2	720	385.6	727	344.0	734	308.5	746	394.0	759	438.6	772	462.1	785	482.4	798	503.2	811	524.3
433280	6400	725	391.2	731	395.6	738	348.0	745	312.5	757	402.0	770	448.6	783	472.1	796	492.4	809	513.2	822	534.3
440050	6500	736	401.2	742	405.6	749	352.0	756	316.5	768	410.0	781	458.6	794	482.1	807	502.4	820	523.2	833	544.3
446820	6600	747	411.2	753	415.6	760	356.0	76													

Arrangement 1 & 9—Square Housing

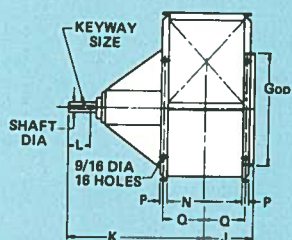
Class I-II-III • SISW (SQA)

A/9 illustrated.
A/1 viewed the
same less motor
base.

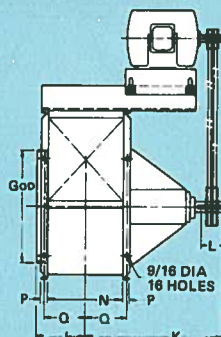
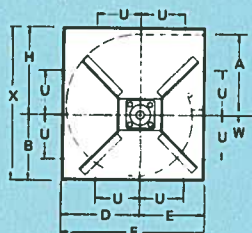


POSITIONS OF DISCHARGE AND ROTATION AS VIEWED FROM DRIVE SIDE

SIZE
8 3/4
THROUGH
44 1/2



ARRANGEMENT 1



ARRANGEMENT 9T or 9S (9T SHOWN)

FAN SIZE	SHAFT DIA.			KEYWAY SIZE			A	B	D	E	F	G INLET O.D. SISW	H
	CL-I	CL-II	CL-III	CL-I	CL-II	CL-III							
8-3/4	3/4	NA	NA	3/16x3/32	NA	NA	8-9/16	7-5/8	9-1/16	7-1/2	16-9/16	12-1/4	10-3/8
10	3/4	NA	NA	3/16x3/32	NA	NA	9-13/16	8-5/8	10-5/16	8-1/2	18-13/16	13-1/2	11-11/16
12-1/4	1-3/16	1-3/16	NA	1/4x1/8	1/4x1/8	NA	12	10-1/2	12-1/2	10	22-1/2	16-1/2	14-1/16
13-1/2	1-3/16	1-3/16	NA	1/4x1/8	1/4x1/8	NA	13-1/4	11-1/2	13-3/4	11	24-3/4	18	15-3/8
15	1-3/16	1-3/16	NA	1/4x1/8	1/4x1/8	NA	14-5/8	12-3/4	15-1/4	12	27-1/4	19-5/8	17-5/16
16-1/2	1-3/16	1-7/16	NA	1/4x1/8	3/8x3/16	NA	16	14	16-3/4	13	29-3/4	21-5/8	18-15/16
18-1/4	1-7/16	1-11/16	NA	3/8x3/16	3/8x3/16	NA	17-13/16	15-7/16	18-1/2	14-1/4	32-3/4	23-3/4	20-13/16
20	1-7/16	1-11/16	NA	3/8x3/16	3/8x3/16	NA	19-7/16	17	20-3/8	15-1/2	35-7/8	25-11/16	22-5/8
22-1/4	1-7/16	1-11/16	2-3/16	3/8x3/16	3/8x3/16	1/2x1/4	21-5/8	18-7/8	22-9/16	17	39-9/16	28-1/8	25
24-1/2	1-11/16	1-15/16	2-3/16	3/8x3/16	1/2x1/4	1/2x1/4	23-13/16	20-3/4	24-13/16	18-1/2	43-5/16	30-5/8	27-3/8
27	1-15/16	2-3/16	2-7/16	1/2x1/4	1/2x1/4	5/8x5/16	26-1/4	22-7/8	27-1/4	20-1/4	47-1/2	33-13/16	30-1/2
30	1-15/16	2-3/16	2-7/16	1/2x1/4	1/2x1/4	5/8x5/16	29-3/16	25-5/16	30-1/4	22-1/4	52-1/2	37	33-11/16
33	1-15/16	2-3/16	2-7/16	1/2x1/4	1/2x1/4	5/8x5/16	32-1/16	27-5/8	33-3/16	24-1/2	57-11/16	40-3/8	36-7/8
36-1/2	2-3/16	2-3/16	2-7/16	1/2x1/4	1/2x1/4	5/8x5/16	35-7/16	30-11/16	36-11/16	27-1/2	64-3/16	40-5/8	40-9/16
40-1/4	2-3/16	2-7/16	2-15/16	1/2x1/4	5/8x5/16	3/4x3/8	38-7/8	34-5/32	40-7/8	30-1/4	71-1/8	44-1/8	44-31/32
44-1/2	2-7/16	2-11/16	3-3/16	5/8x5/16	5/8x5/16	3/4x3/8	43	37-23/32	45	33	78	48-7/8	49-15/32

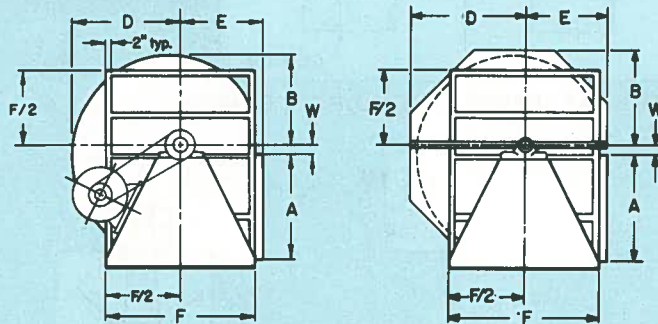
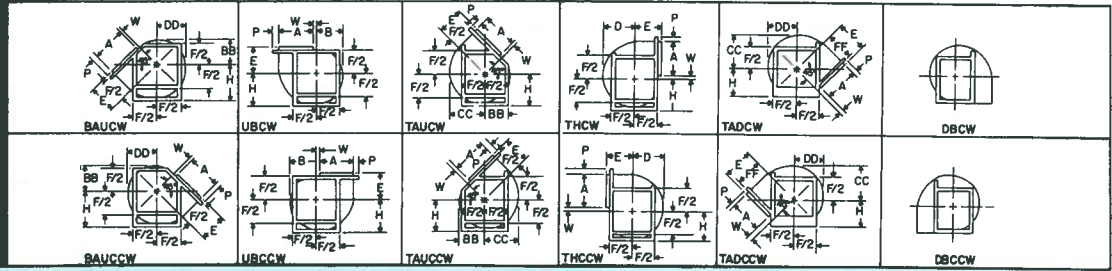
FAN SIZE	J	K		L		N	P	Q	U	W	X	Z*
		CL-I & II	CL-III	CL-I & II	CL-III							
8-3/4	5-7/16	12-11/16	NA	2-1/2	NA	7-9/16	1-1/8	4-1/2	5-1/16	11/16	18	(MAX. FR. SIZE)
10	5-15/16	13-13/16	NA	3-1/8	NA	8-5/8	1-1/8	5	5-11/16	3/4	20-5/16	24-1/8 - 184
12-1/4	7	22-5/8	NA	3-3/4	NA	10-11/16	1-1/8	6	7	1	24-9/16	25-7/16 - 184
13-1/2	7-9/16	23-1/8	NA	3-3/4	NA	11-3/4	1-1/8	6-9/16	7-11/16	1-1/16	26-7/8	29-9/16 - 256
15	8-3/16	25	NA	4-3/8	NA	13-1/16	1-1/2	7-7/16	8-9/16	1-1/4	30-1/16	30-7/8 - 256
16-1/2	8-7/8	25-15/16	NA	4-3/8	NA	14-3/8	1-1/2	8-1/16	9-3/8	1-7/16	32-15/16	32-13/16 - 256
18-1/4	10-1/8	29-3/16	NA	4-3/8	NA	15-7/8	1-1/2	8-13/16	10-3/8	1-9/16	36-1/4	34-7/16 - 256
20	10-7/8	30-9/16	NA	4-1/2	NA	17-3/8	1-1/2	9-9/16	11-3/4	1-11/16	38-5/8	37-1/16 - 288
22-1/4	11-7/8	33-9/16	34-3/8	4-1/2	4-1/2	19-3/8	1-1/2	10-9/16	13-1/4	1-7/8	43-7/8	38-7/8 - 288
24-1/2	12-7/8	34-9/16	35-3/8	4-1/2	4-1/2	21-5/16	1-1/2	11-9/16	14-3/4	2-1/16	48-1/8	41-1/4 - 288
27	14-1/2	38	38-15/16	4-1/2	4-1/2	23-1/2	2	12-7/8	16-1/2	2-1/4	53-3/8	43-5/8 - 288
30	15-3/4	39-15/16	40-1/4	5	4-1/2	26-1/8	2	14-3/16	18-1/2	2-9/16	59	46-3/4 - 288
33	17-1/16	43-1/4	44-1/16	5	5	28-3/4	2	15-1/2	20-3/4	2-13/16	64-1/2	49-15/16 - 288
36-1/2	18-9/16	44-3/4	45-9/16	5	5	31-3/4	2	17	23-1/4	3-3/16	71-1/4	53-1/8 - 288
40-1/4	20-1/4	53-1/4	53-9/16	7	7	35	2-1/2	18-7/8	24	3-1/2	79-1/8	56-13/16 - 288
44-1/2	22-3/32	55-1/16	55-7/8	7	7	38-11/16	2-1/2	20-23/32	26	3-7/8	87-3/16	61-3/16 - 288

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED

DIMENSIONS Arrangement 1 & 9 • Fixed Housing

Class I and II • SISW (D/10A)

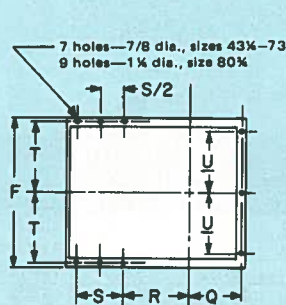
SIZE
40¹/₄
THROUGH
80³/₄



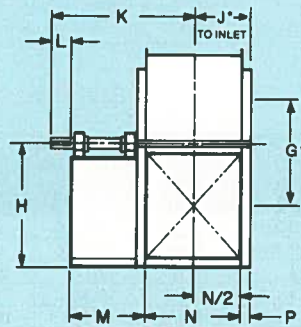
SIZES 40% - 54%
ARRG'T. 9 SHOWN

SIZES 60 - 80%
ARRG'T. 1 SHOWN

SIDE ELEVATION (drive side)
BOTTOM HORIZONTAL COUNTER CLOCKWISE



FOUNDATION (plan)



FRONT ELEVATION

POSITIONS OF DISCHARGE AND ROTATION AS VIEWED FROM DRIVE SIDE.

ARRANGEMENT 9 MEAN DRIVE CENTERS FOR FRAMES SHOWN

FAN SIZE	DISCH. POS.	CENTER DISTANCE							
		56, 143-145	182-184	213-215	254-256	284-286	324-326	364-365	404-405
40%	BH-BAU	30.5	30.9	31.3	31.8	32.1	32.8	33.3	
	UB	28.9	29.4	30.2	30.5	30.5	31.3	31.8	
	TAU	26.9	27.6	28.1	28.5	28.9	29.6	29.8	
	TH	26.4	26.8	27.2	28.0	28.3	28.8	29.3	
	TAD	24.9	25.4	25.7	26.1	26.6	27.3	27.8	
44%	BH-BAU	33.4	33.8	34.1	34.4	34.8	35.3	35.9	37.0
	UB	31.3	31.8	32.1	32.4	32.8	33.4	33.9	35.1
	TAU	29.7	30.1	30.4	30.8	31.2	31.8	32.3	33.5
	TH	28.5	28.9	29.2	29.7	30.0	30.6	31.1	32.4
	TAD	27.3	27.7	27.9	28.4	28.8	29.4	29.8	31.1
48	BH-BAU	36.9	37.3	37.6	38.1	38.4	38.9	39.4	40.6
	UB	35.0	35.4	35.8	36.2	36.5	37.1	37.6	38.8
	TAU	33.1	33.4	33.8	34.2	34.4	35.1	35.6	36.8
	TH	31.9	32.3	32.6	33.0	33.4	33.8	34.4	35.6
	TAD	30.4	30.8	31.1	31.4	31.9	32.4	33.0	34.0

1. MIN. & MAX. CENTERS = MEAN $\pm 1\frac{1}{4}$ ".
2. MAX. FRAME-SIZE 44% = 404.
3. SIZES 54% THROUGH 80% AVAILABLE IN ARRG'T. 1 ONLY.

*DIMENSIONS WITH ACCESSORY SLIP-INLET COLLAR

SIZE	40-1/4	44-1/2	49	54-1/4	60	66	73	80-3/4
J	20-1/4	22-1/8	24-1/16	26-3/8	29-7/16	32	35-1/16	38-7/16
G	44-1/8	48-7/8	53-5/8	59-3/8	65-7/8	71-7/8	79-1/2	88-1/4

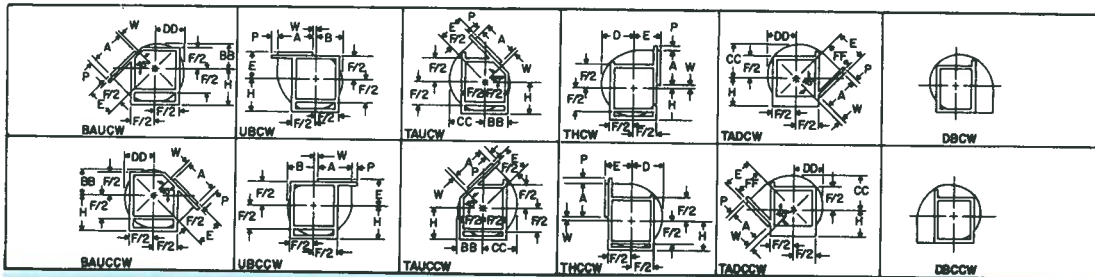
DIMENSIONS - INCHES

DIMENSIONS – INCHES																		
FAN SIZE	WHEEL DIA.	SHAFT AT BEARINGS		KEYWAY		A	B	D	E		F	H						K
		CL. I	CL. II	BH-BAU UB-TAU TH	TAD ONLY				BH	BAU		UB	TAU	TH	TAD	CL. I		
40%	43-7/16	2-3/16	2-7/16	1/2 x 1/4	5/8 x 5/16	39-1/4	33-3/8	40	30-1/4	38-1/2	55-1/4	45-9/16	44	41-15/16	37-1/2	35	31-1/2	52
44%	48	2-3/16	2-11/16	1/2 x 1/4	5/8 x 5/16	43-3/8	36-7/8	44-3/16	33	42	61	50-1/16	48-1/2	45-15/16	41-1/2	38-7/16	35	55-1/2
49	52-7/8	2-7/16	2-15/16	5/8 x 5/16	3/4 x 3/8	47-7/8	40-5/8	49-1/16	36-1/4	46-1/2	67-1/4	54-7/8	53-1/2	50-3/4	45-1/2	42-5/8	38	60
54%	58-1/2	2-7/16	3-7/16	5/8 x 5/16	7/8 x 7/16	53	44-15/16	53-7/8	40	51	74-1/4	60-3/8	59	55-3/8	50-1/2	46-1/2	42	64
60	64-3/4	2-15/16	3-15/16	3/4 x 3/8	1 x 1/2	58-1/2	52-1/4	62	44-1/4	56-7/8	82	67-7/16	66-7/8	62-1/2	57	52-3/4	48	70-1/2
66	71-3/16	2-15/16	3-15/16	3/4 x 3/8	1 x 1/2	64-3/8	57-3/16	67-15/16	48-1/4	62	90-1/4	73-13/16	73-3/8	68-1/2	62-3/8	57-3/4	52-1/2	76
73	78-3/4	3-3/16	3-11/16	3/4 x 3/8	7/8 x 7/16	71-1/8	62-15/16	74-13/16	53	68-1/8	99-3/4	81-3/16	80-3/4	75-1/2	68-1/2	63-1/2	57-3/4	80-1/2
80%	87-1/8	3-7/16	4-3/16	7/8 x 7/16	1 x 1/2	78-5/8	69-1/4	82-3/8	59-1/4	75-7/8	110-1/4	91-3/8	88-7/8	83-1/2	75-1/2	70	63-1/2	98

FAN SIZE	K		L															MIN. FAN SHEAVE DIA.	
	CL. II	CL. I	CL. II	CL. I	M	N	P	Q	R	S	T	U	W	BB	CC	DD	FF	CL. I	CL. II
40%	54	5	7	7	29-3/16	35-1/4	3	19-3/8	23-5/8	18-5/8	26-3/8	24-3/16	3-5/16	30-1/4	42-5/8	36-3/16	35-3/4	12.0	13.0
44%	57-1/2	5	7	7	30-3/4	38-15/16	3	21-1/4	25-1/2	20-3/16	29-1/4	26-5/8	3-11/16	33-1/2	47-1/8	40	39-7/16	13.6	13.5
49	63	5	8	8	32-3/4	42-7/8	3	23-3/16	27-7/16	22-3/16	32-3/8	30-1/8	4	36-7/8	51-15/16	44-1/8	43-9/16	16.0	15.0
54%	67	5	8	8	34-1/4	47-7/16	3	25-1/2	29-3/4	23-11/16	35-7/8	33-3/4	4-3/8	40-3/4	57-7/16	49-3/4	48-1/8	18.4	16.0
60	74-1/2	5	9	9	36-7/8	52-9/16	4	28-13/16	34-5/16	24-11/16	39-1/2	36-1/2	4-15/16	47-7/16	66-5/16	56-3/8	53-5/8	20.0	16.0
66	79	7	10	10	38-3/8	57-3/4	4	31-3/8	36-7/8	26-3/16	43-5/8	40-5/8	5-7/16	51-15/16	72-11/16	61-3/4	58-7/8	22.0	20.3
73	84	7	10	10	39-7/8	63-7/8	4	34-7/16	39-15/16	27-11/16	48-3/8	45-3/8	6-1/16	57-1/8	80-1/16	67-15/16	65	24.0	21.1
80%	100-1/2	8	10	10	53	70-5/8	6	38-13/16	47-5/16	34-3/4	52-5/8	48-5/8	6-3/4	62-13/16	88-3/16	74-13/16	71-3/4	27.0	24.9

Arrangement 1 & 9 • Fixed Housing DIMENSIONS

Class III • SISW (D/10A)

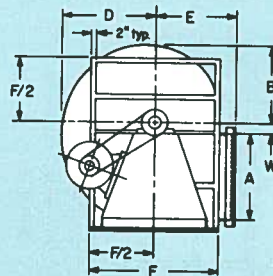


SIZE
22¼
THROUGH
66

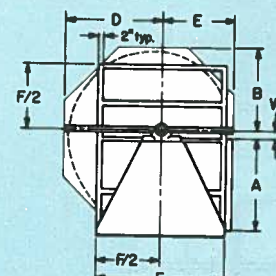
POSITIONS OF DISCHARGE AND ROTATION AS VIEWED FROM DRIVE SIDE.

ARRANGEMENT 1 MEAN DRIVE CENTERS FOR FRAMES SHOWN		CENTER DISTANCE						
FAN SIZE	DISCH. POS.	182-184	213-215	254-256	284-286	324-326	384-386	404 405
22½	ALL	18.8	19.3	20.0	20.5			
24½	ALL		21.1	21.8	22.2			
27	ALL		23.3	23.9	24.4	25.3		
30	ALL			24.3	24.7	25.5		
33	ALL			25.6	25.9	26.6	27.1	
36½	BH-BAU			27.8	28.5	29.1		
	UB			28.9	27.8	28.3		
	TAU			25.6	26.4	27.0		
	TH			24.5	25.3	25.9		
40½	TAD			23.8	24.4	24.9		
	BH-BAU			28.4	29.7	30.2	31.0	
	UB			27.9	28.5	29.0	29.8	
	TAU			26.4	27.1	27.7	28.4	
44½	TH			25.5	26.3	26.8	27.6	
	TAD			24.2	24.9	25.4	26.3	
	BH-BAU			32.3	32.9	33.4	34.1	
	UB			31.1	32.0	32.5	33.3	
48	TAU			29.5	30.2	30.6	31.4	
	TH			28.3	29.0	29.5	30.3	
	TAD			27.0	27.8	28.2	29.0	
	BH-BAU			35.1	35.7	36.1	36.8	36.8
54½	UB			34.0	34.8	35.0	35.8	35.8
	TAU			31.9	32.5	33.0	33.7	33.7
	TH			30.8	31.4	31.9	32.6	32.6
	TAD			29.1	29.7	30.1	30.9	30.9

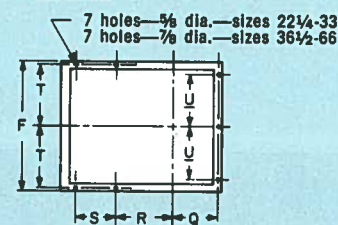
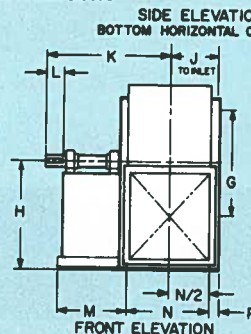
1. MIN. & MAX. CENTERS = MEAN ± 1/16".
2. SIZES 54½ - 66 AVAILABLE IN ARRANGEMENT 1 ONLY.



SIZES 22½ - 54½
ARR'G'T. 9 SHOWN



SIZES 60 AND 66
ARR'G'T. 1 SHOWN



FOUNDATION (plan)

DIMENSIONS - INCHES

FAN SIZE	WHEEL DIA.	SHAFT AT BEARINGS	KEYWAY	E						H							
				A	B	D	BH-BAU UB-TAU TH	TAD ONLY	F	G	BH	BAU	UB	TAU	TH	TAD	J
22%	24	2-11/16	5/8 x 5/16	21-7/8	18-1/2	22-3/16	19-1/4	25-5/8	33-1/4	28-1/8	26-5/8	26-5/8	26-5/8	26-5/8	26-5/8	26-5/8	11-13/16
24%	26-7/16	2-15/16	3/4 x 3/8	24	20-3/8	24-7/16	20-1/4	26-3/4	35-3/4	30-5/8	29	29	29	29	29	29	12-3/4
27	29-1/8	2-7/16	5/8 x 5/16	26-1/2	22-1/2	26-15/16	22-3/4	30-1/8	39-7/16	33-13/16	31-11/16	31-11/16	31-11/16	31-11/16	31-11/16	31-11/16	14-3/8
30	32-3/8	2-7/16	5/8 x 5/16	29-3/32	24-15/16	29-7/8	22-1/4	32-1/8	42-5/8	37	34-13/16	34-13/16	34-13/16	34-13/16	34-13/16	34-13/16	15-3/4
33	35-9/16	2-7/16	5/8 x 5/16	32	27-7/16	32-7/8	25-3/4	34	46	40-3/8	38	38	38	38	38	38	17-1/16
36%	39-3/8	2-11/16	5/8 x 5/16	35-5/8	30-1/4	36-1/4	28-1/4	36	50-1/4	—	42-5/8	40	37-15/16	34-1/2	31-9/16	29	—
40%	43-7/16	2-15/16	3/4 x 3/8	39-1/4	33-3/8	40	31	39-1/2	55-1/4	—	46-9/16	44	41-15/16	37-1/2	35	31-1/2	—
44%	48	3-3/16	3/4 x 3/8	43-3/8	36-7/8	44-3/16	33-3/4	43	61	—	51-1/16	48-1/2	45-15/16	41-1/2	38-7/16	35	—
49	52-7/8	3-7/16	7/8 x 7/16	47-7/8	40-5/8	49-1/16	37	47-1/4	67-1/4	—	55-7/8	53-1/2	50-3/4	45-1/2	42-5/8	38	—
54%	58-1/2	3-11/16	7/8 x 7/16	53	44-15/16	53-7/8	40-3/4	52-1/8	74-1/4	—	61-3/8	59	55-3/8	50-1/2	46-1/2	42	—
60	64-3/4	3-15/16	1 x 1/2	58-9/16	52-1/4	62	45	57-7/8	82	—	69-1/2	66-7/8	62-1/2	57	52-3/4	48	—
66	71-3/16	3-15/16	1 x 1/2	64-7/16	57-3/16	67-15/16	49	63	90-1/4	—	75-7/8	73-3/8	68-1/2	62-3/8	57-3/4	52-1/2	—

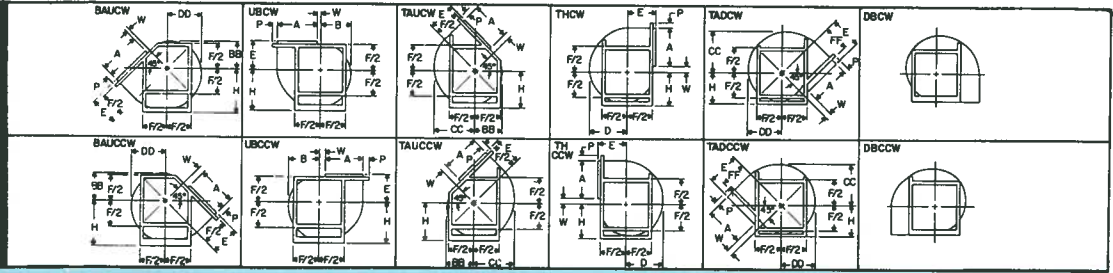
FAN SIZE	K	L	M	N	P	Q	R	S	T	U	W	BB	CC	DD	FF	MIN. FAN SHEAVE DIA.
22%	40-3/4	5	28	19-5/8	3	11-9/16	14-9/16	22	15-3/8	11-1/2	1-3/4	16-25/32	23-5/8	20-3/32	23	5.8
24%	43-3/4	6	29	21-9/16	3	12-9/16	15-1/2	23	16-5/8	12-1/2	2	18-15/32	26-1/32	22-3/32	24-3/8	6.4
27	47-1/2	7	30-5/8	23-3/4	3	13-5/8	16-5/8	24-5/8	18-1/2	15	2-3/16	20-3/8	30-11/16	24-3/8	27-3/32	7.0
30	50-3/8	8	31-3/16	26-1/2	3	15	18	25-3/16	20-1/16	16-1/2	2-23/32	22-5/8	31-27/32	27-1/16	29-3/16	7.6
33	52-1/2	8	31-15/16	29-1/8	3	16-5/16	19-5/16	25-15/16	21-3/4	18	3-1/64	24-27/32	35	29-3/4	31-1/4	8.4
36%	58-1/2	9	36-1/4	32-1/8	4	18-9/16	22-9/16	28-1/4	23-5/8	21-5/8	3	27-7/16	38-5/8	32-13/16	32-1/2	9.8
40%	59-1/4	9	35-9/16	35-3/8	4	20-3/16	24-3/16	27-9/16	26-1/8	24-3/16	3-5/16	30-1/4	42-5/8	36-3/16	35-3/4	10.8
44%	60-1/4	9	34-11/16	39-1/16	4	22-11/16	26	26-11/16	29	26-5/8	3-11/16	33-1/2	47-1/8	40	39-7/16	11.9
49	64-1/4	9	36-3/4	43	4	24	28	28-3/4	32-1/8	30-1/8	4	36-7/8	51-15/16	44-1/8	43-9/16	13.1
54%	66-3/4	9	36-7/8	47-9/16	4	26-5/16	30-1/4	28-7/8	35-5/8	33-3/4	4-3/8	40-3/4	57-7/16	49-3/4	48-1/8	14.5
60	74-1/2	9	42-7/8	52-9/16	6	29-25/32	39	27-5/8	38-1/2	36-1/2	4-15/16	47-7/16	66-5/16	56-3/8	53-5/8	16.5
66	81	10	44-3/8	57-3/4	6	32-3/8	42	28-3/4	42-5/8	40-5/8	5-7/16	51-15/16	72-11/16	61-3/4	58-7/8	18.2

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED

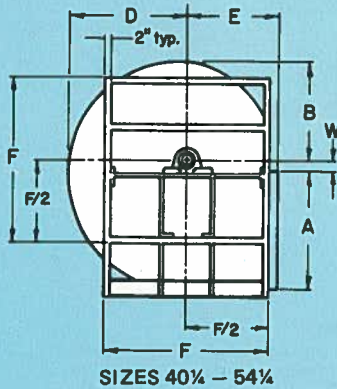
DIMENSIONS Arrangement 3 • Fixed Housing

CLASS I and II—SISW & DIDW (D/10A)

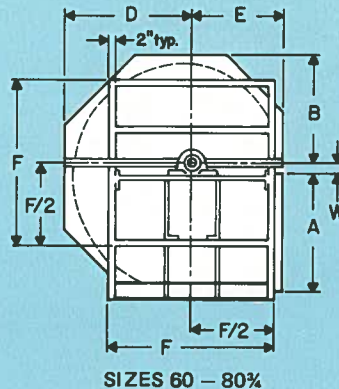
SIZE
40³/₄
THROUGH
80³/₄



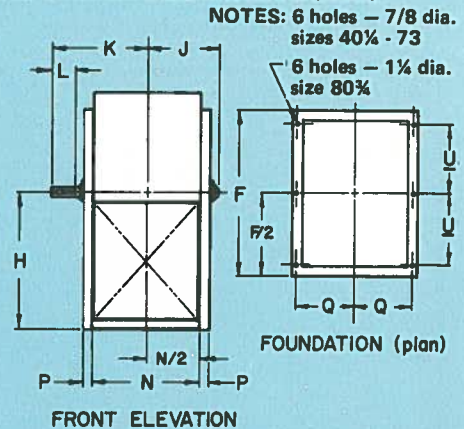
POSITIONS OF DISCHARGE AND ROTATION AS VIEWED FROM DRIVE SIDE.



SIZES 40% - 54%



SIZES 60 - 80%



FOUNDATION (plan)

SIDE ELEVATION (drive side)
BOTTOM HORIZONTAL COUNTER CLOCKWISE

DIMENSIONS - INCHES

FAN SIZE	WHEEL DIA.	SHAFT AT BEARINGS				KEYWAY				A		B	D	E		F	H	
		SISW		DIDW		SISW		DIDW						BH, BAU, UB, TAU, & TH	TAD ONLY		BH	BAU
		CL. I	CL. II	CL. I	CL. II	CL. I	CL. II	CL. I	CL. II	SISW	DIDW							
40%	43-7/16	1-11/16	1-15/16	2-15/16	2-7/16	3/8 x 3/16	1/2 x 1/4	3/4 x 3/8	5/8 x 5/16	39-1/4	37-7/8	33-3/8	40	30-1/4	38-1/2	55-1/4	45-9/16	44
44%	48	1-11/16	1-15/16	3-3/16	2-7/16	3/8 x 3/16	1/2 x 1/4	3/4 x 3/8	5/8 x 5/16	43-3/8	41-15/16	36-7/8	44-3/16	33	42	61	50-1/16	48-1/2
49	52-7/8	1-15/16	2-3/16	3-7/16	2-15/16	1/2 x 1/4	1/2 x 1/4	7/8 x 7/16	3/4 x 3/8	47-7/8	46-3/8	40-5/8	49-1/16	36-1/4	46-1/2	67-1/4	54-7/8	53-1/2
54%	58-1/2	1-15/16	2-7/16	2-7/16	2-15/16	1/2 x 1/4	5/8 x 5/16	5/8 x 5/16	3/4 x 3/8	53	51-1/4	44-15/16	53-7/8	40	51	74-1/4	60-3/8	59
60	64-3/4	2-3/16	2-11/16	2-15/16	3-7/16	1/2 x 1/4	5/8 x 5/16	3/4 x 3/8	7/8 x 7/16	58-1/2	56-5/8	52-1/4	62	44-1/4	56-7/8	82	67-7/16	66-7/8
66	71-3/16	2-7/16	2-11/16	2-15/16	3-15/16	5/8 x 5/16	5/8 x 5/16	3/4 x 3/8	1 x 1/2	64-3/8	62-3/8	57-3/16	67-15/16	48-1/4	62	90-1/4	73-13/16	73-3/8
73	78-3/4	2-11/16	3-3/16	2-15/16	3-15/16	5/8 x 5/16	3/4 x 3/8	3/4 x 3/8	1 x 1/2	71-1/8	69	62-15/16	74-13/16	53	68-1/8	99-3/4	81-3/16	80-3/4
80%	87-1/8	2-15/16	3-7/16	3-7/16	4-7/16	3/4 x 3/8	7/8 x 7/16	7/8 x 7/16	1 x 1/2	78-5/8	76-1/8	69-1/4	82-3/8	59-1/4	75-7/8	110-1/4	91-3/8	88-7/8

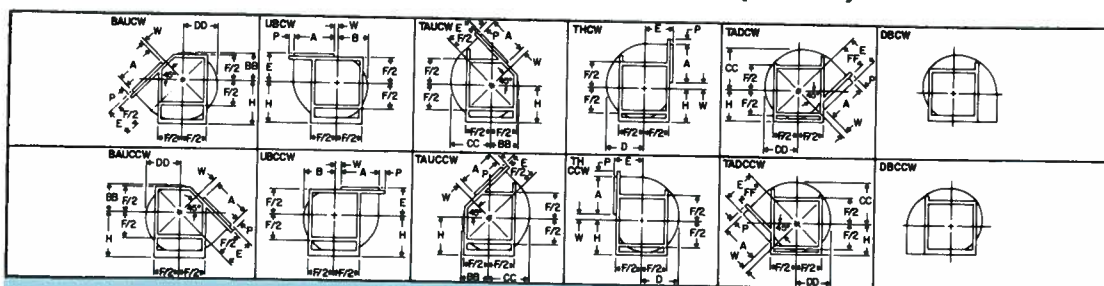
FAN SIZE	H				J				K				L				N	
	UB	TAU	TH	TAD	CL. I	CL. II	CL. I	CL. II	CL. I	CL. II	CL. I	CL. II	CL. I	CL. II	CL. I	CL. II	SISW	DIDW
40%	41-15/16	37-1/2	35	31-1/2	22	22	37	37	27-3/4	29-3/4	44	46-3/4	5	7	5	8	35-1/4	64-1/2
44%	45-15/16	41-1/2	38-7/16	35	23-7/8	23-7/8	41-3/4	40-1/4	29-5/8	31-3/4	48-1/2	51	5	7	5	9	38-15/16	71-1/16
49	50-3/4	45-1/2	42-5/8	38	26	26-1/8	44-1/2	44-5/8	32-1/2	36-1/4	53-1/2	55-3/4	5	8	7	10	42-7/8	78-7/16
54%	55-3/8	50-1/2	46-1/2	42	28-1/8	28-5/8	48-1/2	48-5/8	34-3/8	39	56-1/4	59-3/4	5	8	7	10	47-7/16	86-9/16
60	62-1/2	57	52-3/4	48	31	31-5/8	53-1/4	53-3/4	38-1/8	42-7/8	61-1/2	65-1/4	5	9	7	10	52-9/16	95-11/16
66	68-1/2	62-3/8	57-3/4	52-1/2	33-11/16	34-3/16	58-1/4	59-1/2	42-3/8	45-7/8	68	70-7/8	7	10	8	10	57-3/4	105-13/16
73	75-1/2	68-1/2	63-1/2	57-3/4	37-1/4	37-5/8	63-5/8	64-7/8	46	49-5/8	74-3/8	76-1/4	7	10	9	10	63-7/8	116-9/16
80%	83-1/2	75-1/2	70	63-1/2	40-5/8	40-3/8	70-3/8	71-3/8	50-3/8	52-3/4	82	82-7/8	8	10	10	10	70-5/8	128-13/16

FAN SIZE	P	Q		U	W		BB	CC	DD	FF	MIN. FAN SHEAVE DIA.			
											SISW		DIDW	
		SISW	DIDW		SISW	DIDW					CL. I	CL. II	CL. I	CL. II
40%	3	19-3/8	34	24-3/16	3-5/16	4-11/16	30-1/4	42-5/8	36-3/16	35-3/4	13.0	12.4	12.4	12.4
44½	3	21-1/4	37-1/4	26-5/8	3-11/16	5-1/8	33-1/2	47-1/8	40	39-7/16	12.4	13.5	13.6	13.5
49	3	23-3/16	40-31/32	30-1/8	4	5-1/2	36-7/8	51-15/16	44-1/8	43-9/16	16.0	15.0	15.0	14.0
54%	3	25-1/2	45-1/32	33-3/4	4-3/8	6-1/8	40-3/4	57-7/16	49-3/4	48-1/8	18.4	16.0	18.4	16.0
60	4	28-13/16	50-3/8	36-1/2	4-15/16	6-13/16	47-7/16	66-5/16	56-3/8	53-5/8	20.0	18.0	20.0	18.0
66	4	31-3/8	55-7/16	40-5/8	5-7/16	7-7/16	51-15/16	72-11/16	61-3/4	58-7/8	22.0	20.0	20.0	20.3
73	4	34-7/16	60-13/16	45-3/8	6-1/16	8-3/16	57-1/8	80-1/16	67-15/16	65	24.0	22.5	25.0	21.0
80%	6	38-13/16	67-15/16	48-5/8	6-3/4	9-1/4	62-13/16	88-3/16	74-13/16	71-3/4	27.0	24.9	27.0	24.9

DO NOT USE
FOR CONSTRUCTION
UNLESS
CERTIFIED

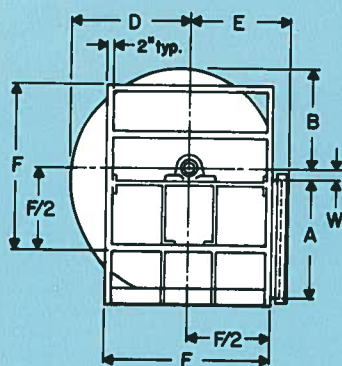
Arrangement 3 • Fixed Housing DIMENSIONS

Class III—DIDW (D/10A)

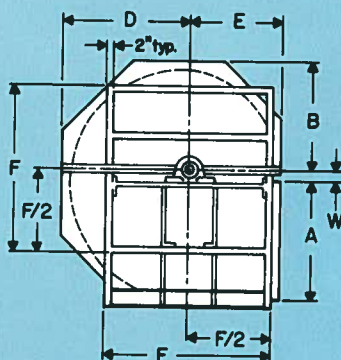


SIZE
30
THROUGH
60

POSITIONS OF DISCHARGE AND ROTATION AS VIEWED FROM DRIVE SIDE.

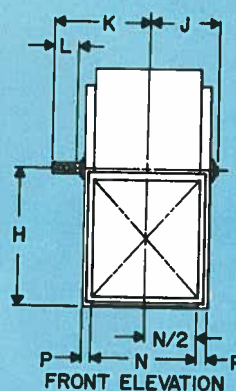


SIZES 22 1/2 - 54 1/2



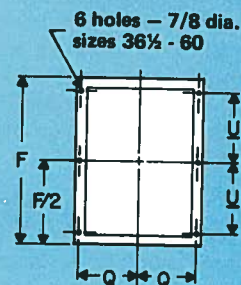
SIZES 60 AND 66

SIDE ELEVATION (drive side)
BOTTOM HORIZONTAL COUNTER CLOCKWISE



FRONT ELEVATION

NOTES: 6 holes - 5/8 dia.
sizes 30 & 33



FOUNDATION (plan)

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED

DIMENSIONS - INCHES

FAN SIZE	WHEEL DIA.	SHAFT AT BEARINGS	KEYWAY	A			E		F	H					
							BH-BAU UB-TAU & TH	TAD ONLY		BH	BAU	UB	TAU	TH	TAD
		DIDW	DIDW	DIDW	B	D	BH	BAU	UB	TAU	TH	TAD			
30	32-3/8	2-7/16	5/8 x 5/16	28-5/32	24-15/16	29-7/8	24-1/4	32-1/8	42-5/8	34-13/16	33-1/2	31-1/4	28-1/2	26-3/8	25-5/16
33	35-9/16	2-7/16	5/8 x 5/16	31	27-7/16	32-7/8	25-3/4	34	46	38	36-1/2	34-1/4	31	28-7/8	27
36½	39-3/8	2-15/16	3/4 x 3/8	34-1/4	30-1/4	36-1/4	28-1/4	36	50-1/4	42-5/8	40	37-15/16	34-1/2	31-9/16	29
40%	43-7/16	2-15/16	3/4 x 3/8	37-7/8	33-3/8	40	31	39-1/2	55-1/4	46-9/16	44	41-15/16	37-1/2	35	31-1/2
44½	48	3-7/16	7/8 x 7/16	41-15/16	36-7/8	44-3/16	33-3/4	43	61	51-1/16	48-1/2	45-15/16	41-1/2	38-7/16	35
49	52-7/8	3-7/16	7/8 x 7/16	46-3/8	40-5/8	49-1/16	37	47-1/4	67-1/4	55-7/8	53-1/2	50-3/4	45-1/2	42-5/8	48
54%	58-1/2	3-15/16	1 x 1/2	51-1/4	44-15/16	53-7/8	40-3/4	52-1/8	74-1/4	61-3/8	59	55-3/8	50-1/2	46-1/2	42
60	64-3/4	3-15/16	1 x 1/2	56-5/8	52-1/4	62	45	57-7/8	82	69-1/2	66-7/8	62-1/2	57	52-3/4	48

FAN SIZE	J	K	L	N	P	Q	U	W	8B	CC	DD	FF	MIN. FAN SHEAVE DIA.
	DIDW	DIDW	DIDW	DIDW		DIDW		DIDW					DIDW
30	28-3/4	36-7/8	7	48-1/8	3	25-13/16	16-1/2	3-21/32	22-5/8	31-27/32	27-1/16	29-3/16	8.5
33	31-3/8	39-1/4	7	53-1/16	3	28-5/16	18	4-1/64	24-27/32	35	29-3/4	31-1/4	9.0
36 1/2	34-5/8	42-5/8	7	58-5/8	4	31-13/16	21-5/8	4-3/8	27-7/16	38-5/8	32-13/16	32-1/2	10.0
40 1/4	37-5/8	45-5/8	7	64-5/8	4	34-13/16	24-3/16	4-11/16	30-1/4	42-5/8	36-3/16	35-3/4	12.0
44 1/2	41-3/4	49-3/4	7	71-3/16	4	38-1/8	26-5/8	5-1/8	33-1/2	47-1/8	40	39-7/16	13.5
49	45-7/16	56-3/8	10	78-9/16	4	41-13/16	30-1/8	5-1/2	36-7/8	51-15/16	44-1/8	43-9/16	12.9
54 1/2	49-15/16	61	10	86-11/16	4	45-7/8	33-3/4	6-1/8	40-3/4	57-7/16	49-3/4	48-1/8	14.5
60	54-13/32	64-5/32	10	95-11/16	6	51-11/32	36-1/2	6-13/16	47-7/16	66-5/16	56-3/8	53-5/8	16.0

HICAGO AIRFOIL CENTRIFUGAL FANS

Your Primary Source for Every Fan Requirement

For General Duty

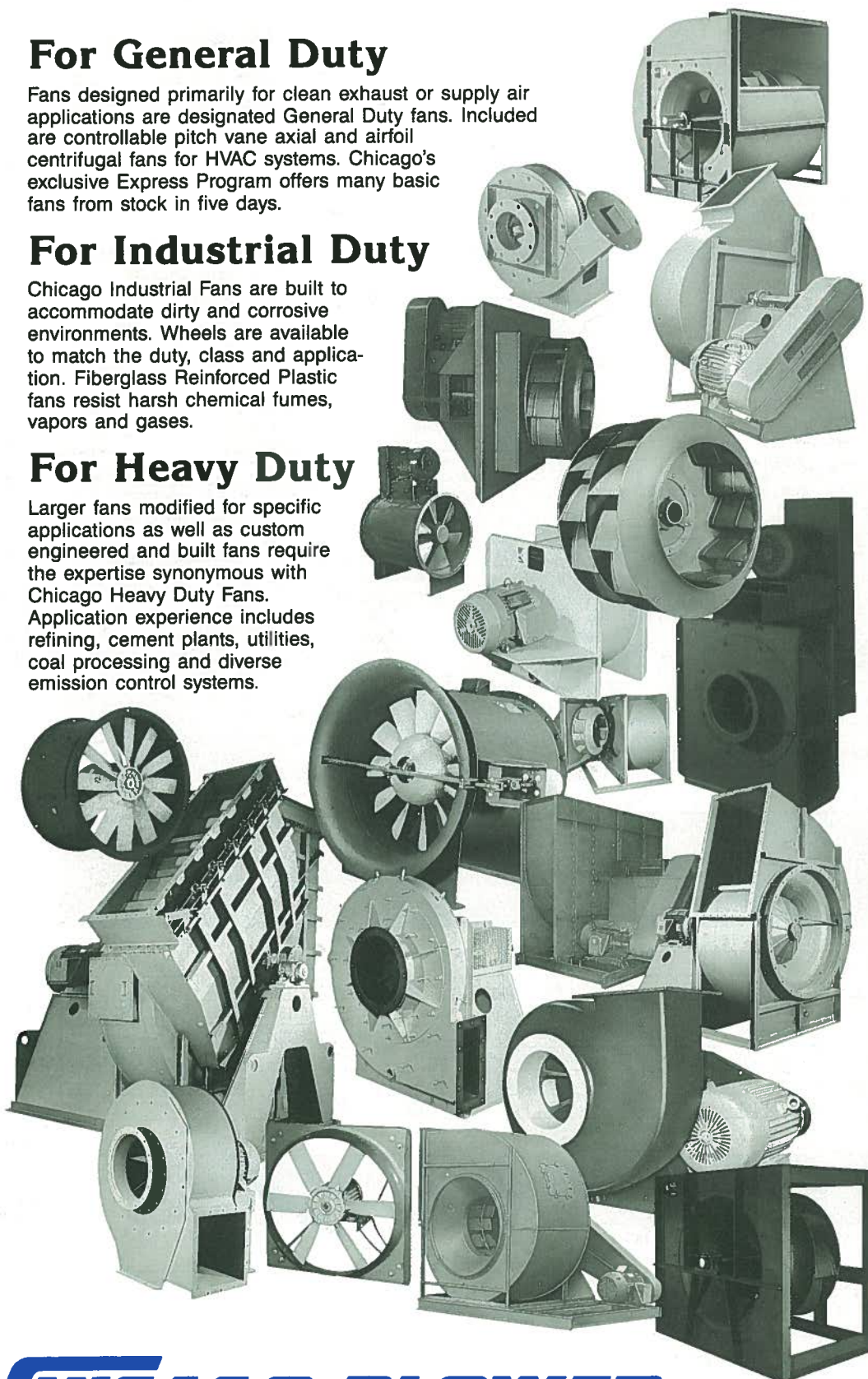
Fans designed primarily for clean exhaust or supply air applications are designated General Duty fans. Included are controllable pitch vane axial and airfoil centrifugal fans for HVAC systems. Chicago's exclusive Express Program offers many basic fans from stock in five days.

For Industrial Duty

Chicago Industrial Fans are built to accommodate dirty and corrosive environments. Wheels are available to match the duty, class and application. Fiberglass Reinforced Plastic fans resist harsh chemical fumes, vapors and gases.

For Heavy Duty

Larger fans modified for specific applications as well as custom engineered and built fans require the expertise synonymous with Chicago Heavy Duty Fans. Application experience includes refining, cement plants, utilities, coal processing and diverse emission control systems.



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