



SQB CENTRIFUGAL FANS



HIGH QUALITY HIGH EFFICIENCY



5QB"B" BLADED CENTRIFUGAL FANS

Exceptional Reliability in Dirty or Corrosive Industrial Environments

Chicago Blower's SQB is regarded as a high performance, trouble free fan proven in a myriad of industrial applications. With its backward inclined wheel and square housing design, the SQB is efficient, economical and versatile. It is also quickly available through Chicago's Stock Fan program. "Packaged" fans, those furnished with motor, V-belt drive, belt guard and other options, are factory aligned, run tested and shipped ready to install. By eliminating jobsite assembly, the packaged SQB fan can substantially reduce overall installation cost.

UNIVERSAL APPLICATIONS

The SQB Type "B" wheel has backward inclined blades designed to handle corrosive or dusty airstreams. Typical applications include oven circulators, dust collector exhaust fans, fume exhausters and emissions control systems. Since the blades are solid steel, the "B" wheel is ideal for custom applied corrosion resistant coatings. The SQB is also suited for high temperature gasses and air to 650°. For greater safety in explosive environments, spark resistant construction is offered. The versatile SQB is furnished in 14 sizes in Arrangements 1, 9 or 9H and in three classes of construction.

CHICAGO QUALITY

The experience gained as a leading supplier of all types of industrial and custom heavy-duty fans is reflected in the rugged construction of all Chicago built fans. It's called "Industrial Quality" and guarantees exceptional performance and reliability. If you are unsure of the suitability of a particular fan for a specific application, the Chicago air moving professionals will evaluate your needs and provide recommendations. Chicago Blower offices are located throughout North America and around the world.



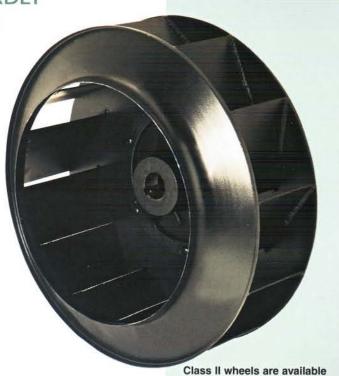






Rugged, Class III Wheels Class III wheels have reinforced blades plus heavy shafts and bearings to extend the rated duty to 15" static pressure. Sizes 20 to 44-1/2.

BACKWARDLY INCLINED WHEELS



in Sizes 16-1/2 to 44-1/2 for pressures through 9". Class IIS duty substitutes heavier shaft or bearings to raise pressure capacity to 10". Sizes 12-1/4 to 36-1/2.

CHICAGO TYPE "B" WHEEL

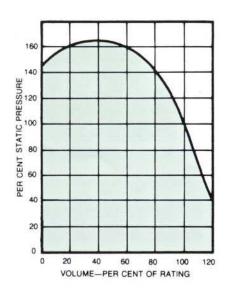
The TYPE "B" wheel consists of backwardly inclined solid steel blades continuously welded to a streamlined wheel cone and a heavy steel backplate. They can withstand temperatures to 650° using a shaft cooler. Type "B" wheels have true non-overloading horse power characteristics, mechanical efficiency over 80% and a steep stable pressure curve. All Chicago type "B" wheels exceed AMCA standards.

GREATER EFFICIENCY

Chicago SQB will perform reliably in many installations that are now using radial bladed fans. The SQB is more efficient than a radial blade fan, allowing the use of smaller, lower horsepower motors properly sized for the operating horsepower of the fan.

STEEP PRESSURE CHARACTERISTICS

Chicago's SQB fan with its steep pressure characteristics is ideal for applications with pressure variations. Even if actual system pressure should reach 30% higher than anticipated, delivered volume would be typically reduced by only 10%.



Designed for easy versatile installation Built for reliable trouble-free service

ADJUSTABLE DISCHARGE POSITIONS

Chicago's SQB fans operate equally well in any of the four discharge positions. The unique square housings are easily rotated without disassembly to simplify installation and relocation. The base has prepunched mounting holes for each discharge position.

RUGGED STEEL HOUSING

The heavy gauge housing features continuously welded air-tight seams. Edges are flanged for exceptional rigidity.

FLANGED OUTLET

A standard feature of the SQB fan is the flanged outlet to facilitate duct connection. Also available is the flanged outlet pre-punched to match the optional outlet damper.

REMOVABLE BEARING BRACKETS

To simplify bearing or shaft maintenance, the rigid steel bearing brackets are bolted to the support structure rather than welded.

PRECISION SHAFTS

Made from selected medium carbon steel, the shafts are turned, ground and polished to assure a tight bearing and hub fit. Shafts are sized to operate 20% or more below the first critical speed for each class of duty.

ADJUSTABLE MOTOR BASES

Heavy gauge bases on Arrangement 9 fans are prepunched for all popular motor frames. The compact motor bases are designed to save floor space by mounting on top or either side of the housing. Bases feature threaded belt tension adjustment and positive locking.

FOUR-WAY GUSSET

An example of Chicago's industrial quality is the four-way gusset that maintains structural housing stability and precise shaft alignment regardless of motor location or direction of shaft pull.





Hyperbolic Spun Steel Wheel Cone

Chicago's quality engineered wheel cone optimizes the smooth stable air flow across the entire operating range. Precision balancing assures quiet vibration-free operation and adds to the reliability of Chicago fans.



Performance and Convenience Options



Inlet Volume Control

Chicago's IVC provides precise air control and superior efficiency. Air volume can be controlled either manually, or automatically by electric or pneumatic actuator.

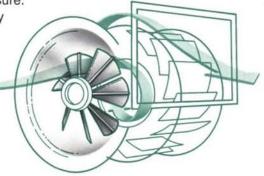
INLET VOLUME CONTROL

When the fan is used for varying or partial load applications, the Inlet Volume Control (IVC) provides precise air control and more efficient operation. Adjustable guide vanes pre-spin the incoming air in the same rotation as the wheel to produce the desired

volume of air at the exact pressure.

The vanes are mounted entirely within the inlet cone.

Chicago's IVC is available as a standard option on Sizes 12-1/4 through 44-1/2. Automatic control is achieved by adding an electric or pneumatic actuator. The IVC is suitable for manual operation to 650°F and automatic operation to 350°F.



INLETS

Open inlets, slip fit inlets and punched flanged inlets are available to meet installation requirements.

PUNCHED FLANGED OUTLET

Necessary for damper mounting, punched holes match outlet damper.

HOUSING DRAIN

A half coupling is welded to the lowest point of the housing. Drain plug is also available.



ACCESS DOOR

The flush mounted door features quick opening tension clamps and gasket. Bolted access door is also available.

PLUG TYPE ACCESS DOOR

The bolted door is raised off the scroll to provide clearance for insulation.

SHAFT and BEARING GUARD

The expanded metal guard encloses the shaft and bearings. For easier lubrication, extended grease fittings are recommended.

EXTENDED GREASE FITTINGS

For accessibility, the fittings are mounted on the bearing support gussets with lube lines run to the bearings.

BELT GUARD

Three sides are fully enclosed while the other side has an expanded metal guard for ventilation and visual inspection.

SHAFT SEAL

The standard seal reduces leakage through the shaft opening in the housing. Leak-resistant shaft seals are also available.

HIGH TEMPERATURE SHAFT COOLER

In applications where temperature will exceed 300°F, a shaft cooler must be used to dissipate the heat. Maximum temperature limit is 650°F.

INLET SCREEN

The welded steel wire screen mounts hin the inlet cone or outside the Inlet Volume Control, when furnished.

SPARK RESISTANT CONSTRUCTION

AMCA Type B and C spark resistant construction is available in Sizes 12-1/4 through 44-1/2.

UNITARY BASE

Fan and adjustable motor base is welded onto a unitary base of continuously welded structural steel channel. Can be provided with vibration isolators. (Refer to page 24 for dimensions.)

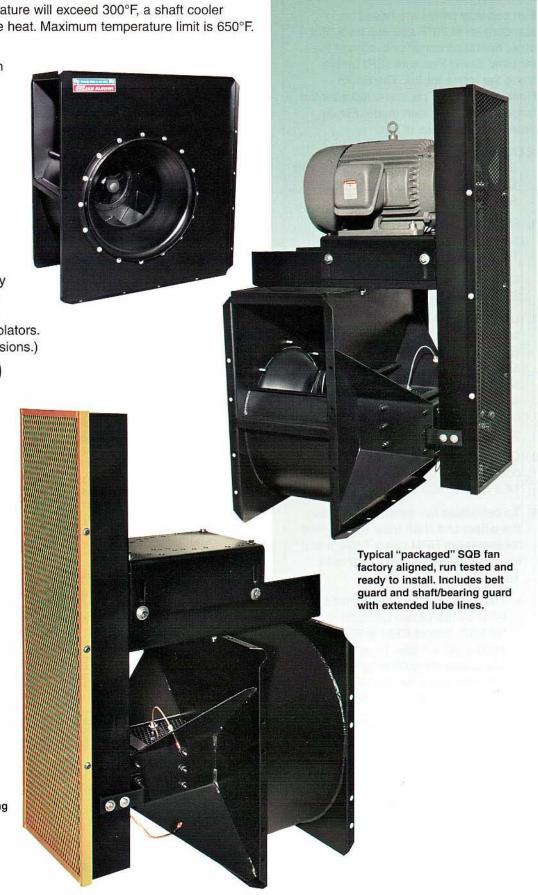
BASE RAILS (Type "T")

Channel rails are fitted with rubber-in-shear or spring isolators. Available only on Arrangements 9T and 9S.

OUTLET DAMPERS

Outlet dampers are often selected for their low initial cost and simple operation. However, they do require substantially more horsepower at reduced air volume than Inlet Volume Controls. Dampers have punched flanges on both ends to simplify fan and duct connections. Parallel acting blade design is standard with opposed acting blades available. To mount the damper, a matching punched flanged outlet is needed.

> This SQB fan is equipped with belt guard painted OSHA yellow, shaft/ bearing guard, cooling wheel and copper lube lines for high temperature application.





FAN SELECTION

Fan capacity tables are based on standard air at 70°F and sea level. For other operating conditions, correct the required Static Pressure (SP) before using the rating tables. The Brake Horsepower (BHP) is corrected after the fan selection has been made. Finally, determine the Class of fan.

EXAMPLE:

Select an SQB fan to handle 18.800 CFM at 3" SP at 500°F and at 2500 feet above sea level.

- 1. Refer to Table 1. At 2500 feet and 500°F, the correction factor is 1.98. To simplify the calculations, use 2.00. Corrected SP is 2.00 X 3" SP = 6.00" SP at 70°F and sea level.
- 2. Using the fan rating tables, one fan selection for 18,800 CFM at 6" SP is a Size 30. The fan will run at 1500 RPM and require 28.4 BHP at 70°F and sea level. (The actual RPM and BHP was calculated by interpolating between the 17,918 and 18,972 CFM given in the rating tables.)
- 3. Correct the BHP. Dividing 28.4 by the correction factor (2.00). 28.4 ÷ 2.00 = 14.2 BHP at 500°F at 2500' altitude.
- 4. To determine fan construction Class. the wheel and shaft must be checked for maximum RPM using Table II and for temperature deration factors in Table III.
 - a. Table III. Divide wheel operating RPM by the Wheel Deration factor for 500°. Wheel RPM at 70°F is $1500 \div .82 = 1829$. Then divide the wheel operating RPM by the Shaft Deration factor for 500°. Shaft RPM at 70° F is $1500 \div .97 = 1546$.
 - b. Check Table II for maximum RPMs for a Size 30 fan. While the required wheel RPM of 1829 is within safe limits for a Class I fan, the required shaft RPM of 1546 is not. The Class II fan is needed because of high duty temperature.

For Sound Levels and Bearing Life Data, see Page 23.

TABLE I - Temperature and Altitude Correction

AIR	AL.	TITUDE	(feet) w	ith BAR	OMETR	IC PRES	SURE (HG)
TEMP	0′	500°	1000°	1500°	2000°	2500°	3000°	3500
(F°)	29.92	29.38	28.86	28.33	27.82	27.31	26.82	26.32
-15	.79	.81	.82	.84	.85	.87	.88	.90
0	.87	.88	.90	.92	.93	.95	.97	.99
70	1.00	1.02	1.04	1.06	1.08	1.10	1.12	1.14
100	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20
150	1.15	1.17	1.19	1.22	1.24	1.26	1.28	1.31
200	1.25	1.27	1.29	1.32	1.34	1.36	1.39	1.42
250	1.34	1.36	1.39	1.41	1.44	1.47	1.49	1.52
300	1.43	1.46	1.49	1.51	1.54	1.57	1.60	1.63
350	1.53	1.56	1.58	1.61	1.64	1.67	1.70	1.74
400	1.62	1.65	1.68	1.71	1.75	1.78	1.81	1.84
500	1.81	1.84	1.88	1.91	1.95	1.98	2.02	2.06
600	2.00	2.04	2.07	2.11	2.15	2.19	2.23	2.27
650	2.09	2.13	2.17	2.21	2.25	2.29	2.34	2.38

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

TABLE II - Maximum RPM at 70° F

Note: For temperature deration only, not for air performance.

	CLA	SS II	CLA	SS IIS	CLA	SS III
FAN SIZE	Shaft	Wheel	Shaft	Wheel	Shaft	Wheel
12-1/4	N.A.	N.A.	4036	4060	N.A.	N.A.
13-1/2	N.A.	N.A.	3752	3752	N.A.	N.A.
15	N.A.	N.A.	3452	3730	N.A.	N.A.
16-1/2	2925	3200	3141	3200	N.A.	N.A.
18-1/4	2645	2850	2847	2850	N.A.	N.A.
20	2546	2860	2739	2860	3040	3260
22-1/4	2112	2430	2374	2430	2668	2760
24-1/2	1944	2112	2103	2112	2423	2423
27	1833	2030	1956	2030	2198	2320
30	1595	1788	1788	1788	2038	2220
33	1440	1577	1560	1577	1853	1939
36-1/2	1242	1376	1332	1376	1612	1690
40-1/4	1126	1211	N.A.	N.A.	1461	1461
44-1/2	1019	1127	N.A.	N.A.	1321	1431

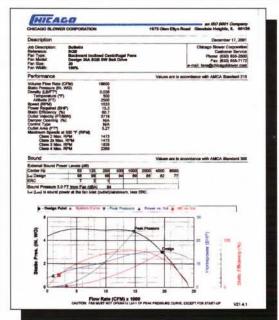
TABLE III -**Speed Deration**

Dera	tion Fa	ctors
TEMP (F°)	Steel Wheel	Steel
70	1.00	1.00
200	.94	1.00
300	.90	.99
400	.86	.98
500	.82	.97
600	.79	.96
650	.78	.95

Refer to Chicago Blower's fan.net for performance. fan curves and sound data.

For software and assistance, contact your local Chicago Blower sales engineer.









Outlet Area: .88 sq. ft.

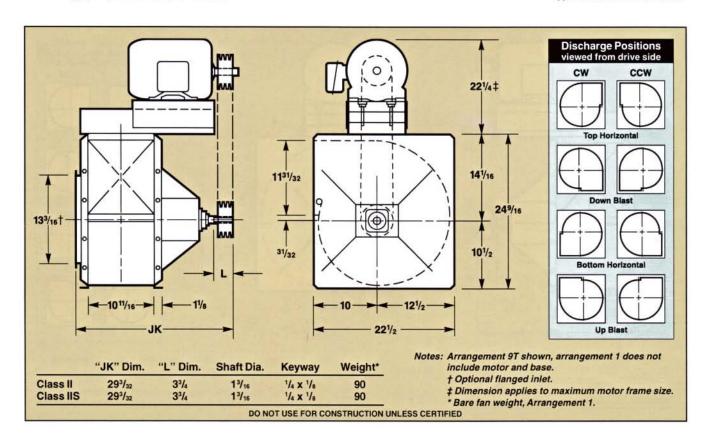
Maximum BHP = .104 (rpm ÷ 1000)³

Tip Speed (fpm) = 3.46 x rpm



	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
CFM	FPM	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	BHP
528 616 704 792 880	600 700 800 900 1000	688 747 811 877 948	.03 .04 .05 .07	862 896 945 1003 1063	.06 .07 .09 .10	1048 1075 1116 1168	.11 .12 .14 .16	1208 1233 1271	.17 .18 .21	1483	.31										
968 1056 1144 1232 1320	1100 1200 1300 1400 1500	1021 1096 1173 1250 1328	.11 .13 .16 .19 .23	1126 1191 1259 1330 1403	.15 .17 .20 .24 .28	1227 1287 1349 1413 1479	.19 .22 .25 .29 .33	1319 1375 1434 1494 1557	.23 .27 .31 .35 .39	1509 1546 1590 1644 1702	.34 .37 .41 .46 .51	1703 1723 1753 1792 1836	.46 .49 .53 .58 .63	1917 1942 1976	.67 .71 .76	2095 2118	.87 .92	2261	1.09		
1408 1496 1584 1672 1760	1600 1700 1800 1900 2000	1408 1487 1567 1647 1728	.27 .32 .37 .42 .49	1476 1552 1629 1706 1784	.32 .37 .43 .49 .55	1547 1619 1691 1764 1838	.38 .43 .49 .55	1621 1687 1753 1824 1896	.44 .49 .55 .62 .69	1761 1821 1883 1947 2012	.57 .63 .69 .76	1889 1947 2005 2065 2126	.69 .76 .84 .91 1.00	2018 2065 2118 2176 2235	.83 .90 .98 1.06 1.16	2149 2188 2231 2282 2337	.98 1.05 1.12 1.21 1.31	2283 2312 2348 2391 2437	1.14 1.21 1.29 1.38 1.47	2416 2438 2466 2500 2542	1.33 1.39 1.46 1.55 1.65
1936 2112 2288 2464 2640	2200 2400 2600 2800 3000	1890 2052 2216 2379 2543	.63 .81 1.01 1.25 1.52	1941 2100 2260 2421 2582	.71 .89 1.10 1.34 1.62	1991 2146 2302 2461 2620	.78 .97 1.19 1.44 1.72	2041 2192 2345 2500 2657	.85 1.05 1.27 1.53 1.82	2144 2286 2431 2578 2731	1.01 1.21 1.45 1.71 2.02	2252 2383 2517 2661 2806	1.18 1.39 1.63 1.91 2.22	2355 2479 2609 2741 2881	1.35 1.58 1.83 2.11 2.44	2453 2573 2697 2827 2958	1.53 1.77 2.03 2.33 2.66	2547 2664 2784 2908 3037	1.70 1.96 2.24 2.55 2.89	2638 2750 2868 2989 3113	1.87 2.15 2.44 2.77 3.12
	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	9"	SP	10"	SP
CFM	FPM	RPM	BHP	RPM	ВНР	RPM	ВНР														
1496 1584 1672 1760 1936	1700 1800 1900 2000 2200	2563 2585 2612 2646 2730	1.59 1.66 1.74 1.83 2.06	2703 2725 2752 2827	1.86 1.94 2.03 2.26	2838 2860 2922	2.16 2.25 2.47	2967 3018	2.47 2.69	3073 3116	2.71 2.92	3212	3.16	3310	3.42	3405	3.68				
2112 2288 2464 2640 2816	2400 2600 2800 3000 3200	2834 2949 3068 3189 3314	2.33 2.65 2.99 3.36 3.77	2918 3027 3143 3263 3384	2.53 2.85 3.22 3.60 4.02	3005 3105 3217 3334 3454	2.73 3.06 3.43 3.84 4.27	3092 3181 3288 3404 3522	2.95 3.27 3.65 4.08 4.53	3179 3263 3361 3472 3588	3.18 3.50 3.87 4.31 4.79	3268 3343 3431 3538 3653	3.42 3.73 4.10 4.54 5.03	3357 3423 3508 3606 3716	3.67 3.98 4.35 4.78 5.28	3446 3506 3583 3672 3779	3.93 4.23 4.60 5.03 5.53	3624 3669 3733 3813 3904	4.48 4.77 5.13 5.56 6.05	3833 3883 3951 4036	5.35 5.70 6.12 6.61
2992 3168 3344 3520 3696	3400 3600 3800 4000 4200	3443 3574 3707 3847 3991	4.21 4.69 5.22 5.81 6.45	3510 3640 3771 3904	4.47 4.97 5.51 6.10	3567 3703 3833 3965	4.74 5.25 5.81 6.40	3643 3765 3894 4024	5.01 5.53 6.10 6.71	3708 3829 3953	5.28 5.82 6.40	3771 3891 4012	5.55 6.10 6.70	3832 3951	5.83 6.39	3893 4010	6.09 6.68	4011	6.62		

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Outlet Area: 1.07 sq. ft.

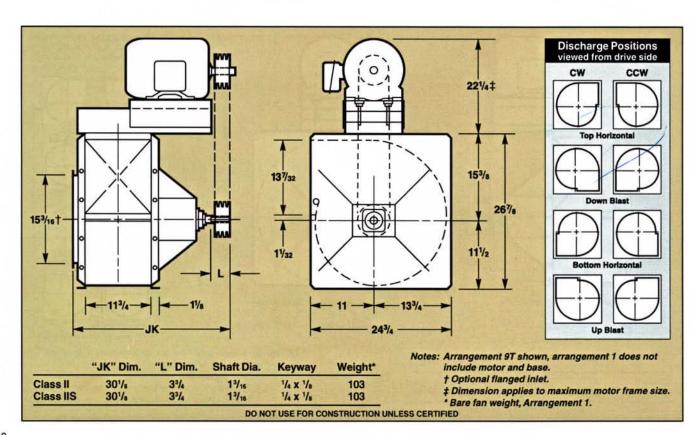
Maximum BHP = .168 (rpm ÷ 1000)³

Tip Speed (fpm) = 3.81 x rpm

13 1/2

10	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
CFM	FPM	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	ВНР
642 749 856 963 1070	600 700 800 900 1000	625 679 737 797 862	.04 .05 .07 .08 .11	782 814 858 911 966	.07 .09 .11 .13	951 976 1013 1061	.13 .15 .17 .20	1097 1119 1154	.20 .22 .25	1347	.38										
1177 1284 1391 1498 1605	1100 1200 1300 1400 1500	928 996 1066 1136 1208	.13 .16 .19 .23 .28	1023 1083 1144 1209 1275	.18 .21 .25 .29 .34	1114 1169 1225 1284 1344	.23 .27 .31 .35 .40	1198 1249 1303 1358 1414	.29 .33 .37 .42 .48	1370 1404 1445 1494 1546	.41 .45 .50 .55 .62	1546 1565 1592 1627 1668	.56 .60 .64 .70 .76	1740 1763 1794	.81 .87 .93	1902 1923	1.06 1.12	2052	.1.32		
1712 1819 1926 2033 2140	1600 1700 1800 1900 2000	1280 1352 1425 1498 1571	.33 .38 .45 .52 .59	1342 1411 1481 1551 1621	.39 .45 .52 .59 .68	1406 1471 1537 1603 1671	.46 .52 .59 .67 .76	1473 1533 1593 1658 1723	.54 .60 .67 .75 .84	1600 1655 1711 1769 1828	.69 .76 .84 .93 1.02	1716 1768 1822 1876 1931	.84 93 1.02 1.11 1.21	1833 1876 1924 1977 2030	1.01 1.09 1.19 1.29 1.41	1952 1987 2026 2073 2123	1.19 1.27 1.37 1.48 1.59	2073 2099 2132 2171 2214	1.39 1.47 1.57 1.67 1.79	2193 2213 2239 2270 2309	1.61 1.69 1.78 1.88 2.00
2354 2568 2782 2996 3210	2200 2400 2600 2800 3000	1718 1866 2014 2163 2312	.77 .98 1.23 1.52 1.86	1764 1909 2054 2201 2348	.86 1.08 1.34 1.64 1.98	1810 1951 2093 2237 2382	.95 1.18 1.44 1.75 2.10	1856 1992 2132 2273 2415	1.04 1.27 1.55 1.86 2.22	1949 2078 2210 2344 2482	1.23 1.48 1.76 2.09 2.46	2046 2165 2288 2418 2550	1.44 1.69 1.99 2.33 2.71	2139 2253 2371 2491 2618	1.65 1.92 2.23 2.57 2.97	2229 2338 2451 2569 2688	1.86 2.15 2.47 2.83 3.24	2314 2420 2530 2642 2760	2.07 2.38 2.72 3.10 3.52	2397 2499 2606 2716 2829	2.28 2.61 2.98 3.37 3.80
	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	9"	SP	10"	SP
CFM	FPM	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	ВНР
1819 1926 2033 2140 2354	1700 1800 1900 2000 2200	2327 2347 2372 2403 2480	1.93 2.01 2.11 2.23 2.50	2454 2474 2499 2567	2.26 2.36 2.47 2.75	2576 2597 2653	2.62 2.73 3.00	2693 2741	3.01 3.26	2789 2829	3.29 3.55	2916	3.84	3005	4.15	3091	4.47				
2568 2782 2996 3210 3424	2400 2600 2800 3000 3200	2575 2679 2787 2897 3011	2.80 3.23 3.64 4.09 4.58	2650 2750 2856 2964 3075	3.07 3.47 3.91 4.38 4.89	2729 2820 2922 3029 3138	3.33 3.72 4.18 4.67 5.20	2809 2889 2987 3092 3200	3.59 3.98 4.44 4.96 5.51	2887 2963 3053 3154 3260	3.87 4.25 4.71 5.24 5.82	2968 3037 3117 3214 3319	4.16 4.54 4.99 5.53 6.12	3048 3108 3186 3276 3376	4.48 4.63 5.29 5.82 6.42	3129 3183 3254 3335 3433	4.77 5.15 5.60 6.12 6.73	3290 3332 3390 3463 3546	5.44 5.80 6.24 6.76 7.36	3480 3526 3588 3665	6.50 6.92 7.44 8.04
3638 3852 4066 4280 4494	3400 3600 3800 4000 4200	3129 3248 3369 3497 3627	5.12 5.72 6.36 7.07 7.85	3189 3307 3427 3547 3675	5.45 6.05 6.71 7.43 8.22	3249 3365 3483 3603 3723	5.77 6.39 7.07 7.80 8.59	3310 3421 3538 3658	6.10 6.74 7.43 8.17	3369 3479 3592 3709	6.43 7.08 7.79 8.55	3426 3535 3646	6.76 7.43 8.15	3482 3590 3700	7.09 7.78 8.52	3537 3644 3752	7.41 8.13 8.89	3644 3748	8.05 8.81	3751	8.72

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Outlet Area: 1.32 sq. ft.

Maximum BHP = .286 (rpm ÷ 1000)³

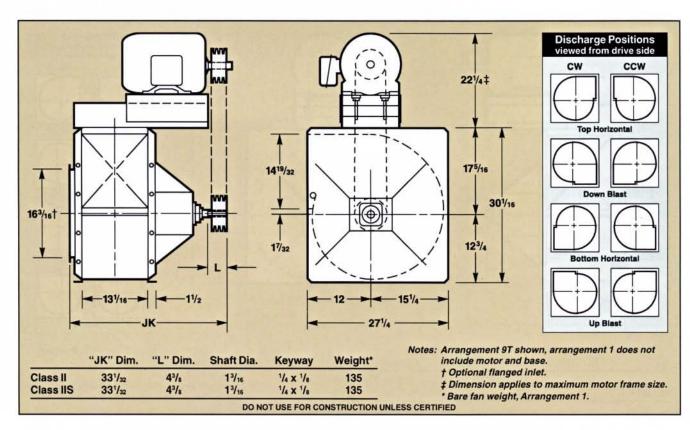
Tip Speed (fpm) = 4.24 x rpm

SIZE

15

	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
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	ВНР
792 924 1056 1188 1320	600 700 800 900 1000	562 610 682 716 774	.05 .06 .08 .10	704 732 772 819 868	.09 .11 .13 .16 .19	855 878 911 954	.16 .18 .21 .25	987 1007 1038	.25 .27 .31	1211	.46										
1452 1584 1716 1848 1980	1100 1200 1300 1400 1500	834 895 9658 1021 1085	.16 20 .24 .29 .34	920 973 1028 1086 1146	.22 .26 .31 .36 .42	1002 1051 1101 1154 1208	.29 .33 .38 .44 .50	1077 1123 1171 1220 1271	.35 .40 .46 .52 .59	1232 1263 1299 1343 1390	.50 .55 .61 .68 .76	1390 1407 1431 1463 1499	.69 .74 .79 .86 .94	1565 1586 1613	1.00 1.07 1.15	1711 1730	1.30 1.38	1846	1.63		
2112 2244 2376 2508 2640	1600 1700 1800 1900 2000	1150 1215 1280 1345 1411	.40 .47 .55 .64 .73	1206 1268 1330 1393 1457	.48 .56 .64 .73 .83	1264 1322 1381 1441 1501	.57 .65 .73 .83 .93	1324 1378 1432 1490 1548	.66 .74 .83 .93 1.04	1438 1488 1538 1590 1643	.85 .94 1.04 1.14 1.26	1543 1590 1638 1687 1736	1.04 1.14 1.25 1.37 1.49	1648 1686 1730 1777 1825	1.24 1.34 1.46 1.59 1.73	1755 1787 1822 1864 1908	1.47 1.57 1.68 1.82 1.97	1864 1888 1917 1952 1990	1.72 1.82 1.93 2.06 2.21	1973 1991 2013 2042 2076	1.99 2.09 2.20 2.32 2.47
2904 3168 3432 3696 3960	2200 2400 2600 2800 3000	1543 1676 1810 1943 2077	.95 1.21 1.52 1.87 2.28	1585 1715 1846 1977 2109	1.06 1.33 1.65 2.01 2.43	1626 1753 1880 2010 2140	1.17 1.45 1.78 2.15 2.58	1667 1790 1915 2042 2170	1.28 1.57 1.91 2.29 2.73	1751 1867 1986 2106 2230	1.52 1.82 2.17 2.57 3.03	1839 1946 2056 2173 2291	1.77 2.09 2.45 2.87 3.34	1923 2025 2131 2239 2353	2.03 2.37 2.74 3.17 3.66	2003 2102 2203 2309 2416	2.29 2.65 3.05 3.49 3.99	2080 2176 2274 2375 2481	2.55 2.94 3.36 3.82 4.34	2155 2246 2342 2441 2542	2.81 3.22 3.67 4.15 4.69
	ov		" SP	-	SP		"SP	6"	SP	6-1/2	" SP	7"	SP	7-1/2	"SP	8"	SP	9"	SP	10"	SP
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2244 2376 2508 2640 2904	1700 1800 1900 2000 2200	2093 2111 2133 2161 2230	2.38 2.49 2.61 2.75 3.09	2208 2225 2248 2309	2.79 2.91 3.05 3.29	2317 2336 2386	3.24 3.37 3.70	2423 2465	3.71 4.03	2509 2545	4.07 4.38	2623	4.74	2703	5.13	2781	5.52				
3168 3432 3696 3960 4224	2400 2600 2800 3000 3200	2315 2408 2505 2604 2706	3.50 3.98 4.49 5.04 5.65	2383 2472 2567 2665 2764	3.79 4.28 4.83 5.40 6.03	2454 2535 2627 2723 2821	4.10 4.59 5.15 5.76 6.41	2525 2598 2685 2780 2877	4.43 4.90 5.47 6.11 6.79	2596 2664 2745 2835 2930	4.77 5.25 5.81 6.46 7.18	2669 2730 2802 2890 2983	5.13 5.60 6.15 6.81 7.55	2741 2795 2864 2945 3035	5.50 5.96 6.52 7.18 7.92	2814 2863 2926 2999 3086	5.89 6.35 6.91 7.54 8.30	2960 2997 3048 3114 3188	6.72 7.16 7.70 8.34 9.07	3130 3171 3227 3296	8.02 8.54 9.17 9.92
4488 4752 5016 5280 5544	3400 3600 3800 4000 4200	2812 2919 3027 3142 3259	6.32 7.04 7.83 8.71 9.67	2867 2973 3080 3188 3303	6.71 7.46 8.27 9.15 10.12	2921 3024 3131 3238 3346	7.11 7.88 8.71 9.61 10.58	2975 3075 3180 3286 3394	7.52 8.30 9.15 10.07 11.06	3028 3127 3228 3334	7.92 8.73 9.60 10.54	3080 3178 3277 3380	8.33 9.16 10.05 11.00	3130 3227 3326 3425	8.74 9.59 10.50 11.48	3179 3275 3373	9.13 10.02 10.95	3276 3369	9.92 10.86	3372	10.75
5808	4400	3378	10.73	3409	11.12	3450	11.59											1			

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Class II Class IIS
RPM 2925 3141

Outlet Area: 1.59 sq. ft.

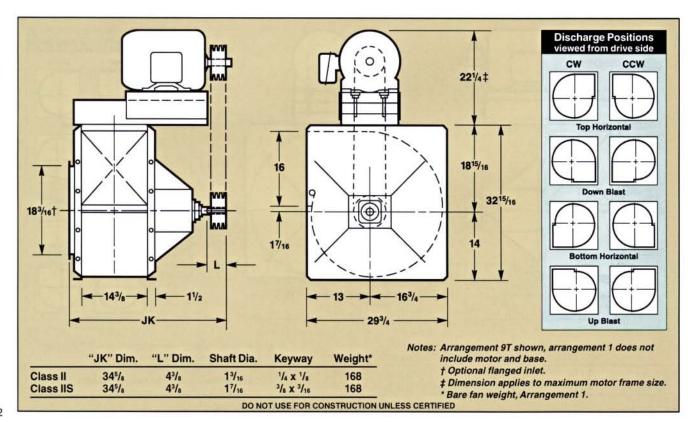
Maximum BHP = .461 (rpm ÷ 1000)³

Tip Speed (fpm) = 4.66 x rpm



FPM	OV FPM RPM BHF					SP		SP	1-1/2	2" SP	2"	SP	2-1/2	" SP	3"	or a	3-1/2	"SP	1 1000	SP
	HPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP
600 700 800 900 1000	509 553 600 649 701	.06 .08 .10 .12 .16	639 664 700 742 787	.11 .13 .16 .19	777 797 827 865	.20 .22 .25 .30	896 914 942	.30 .33 .37	1100	.56										
1100 1200 1300 1400 1500	755 810 867 924 982	.19 .23 .29 .34 .41	833 881 931 984 1037	.27 .31 .37 .43	908 952 998 1046 1094	.34 .40 .46 .52	977 1018 1062 1106 1152	.42 .48 .55 .62 .70	1119 1146 1178 1218 1260	.61 .67 .74 .82 .92	1278 1299 1328 1360	.89 .96 1.04 1.13	1422 1440 1465	1.21 1.29 1.38	1554 1571	1.57 1.66	1677	1.97		
1600 1700 1800 1900 2000	1040 1099 1158 1217 1277	.48 .57 .66 .76	1091 1147 1204 1261 1318	.58 .67 .77 .88 1.00	1144 1197 1250 1304 1359	.68 .77 .88 .99	1200 1248 1297 1349 1402	.79 .89 .99 1.11 1.24	1304 1348 1393 1441 1489	1.02 1.13 1.25 1.37 1.51	1399 1441 1484 1529 1573	1.25 1.37 1.51 1.64 1.79	1495 1529 1611 1654 1743	1.49 1.62 1.76 1.92 2.08	1593 1621 1653 1690 1730	1.77 1.89 2.03 2.19 2.36	1693 1714 1740 1771 1805	2.07 2.19 2.32 2.48 2.65	1792 1808 1828 1853 1884	2.40 2.52 2.65 2.80 2.98
2200 2400 2600 2800 3000	1396 1516 1637 1758 1879	1.14 1.45 1.81 2.24 2.73	1434 1552 1670 1789 1908	1.27 1.59 1.97 2.41 2.91	1472 1586 1702 1818 1936	1.40 1.74 2.13 2.58 3.09	1509 1620 1734 1848 1963	1.53 1.88 2.28 2.74 3.27	1586 1691 1798 1906 2019	1.82 2.18 2.60 3.08 3.63	1666 1763 1862 1968 2075	2.13 2.50 2.94 3.43 4.00	1835 1931 2028 2102 2131	2.44 2.84 3.29 3.80 4.38	1816 1905 1996 2092 2189	2.76 3.18 3.66 4.19 4.79	1886 1972 2061 2152 2247	3.06 3.53 4.03 4.59 5.20	1954 2036 2123 2212 2304	3.38 3.87 4.41 4.99 5.63
OV	-	-						-		_		-	-			-	_			-
1700 1800 1900 2000 2200	1901 1917 1936 1962 2023	2.87 3.00 3.14 3.32 3.72	2005 2021 2040 2095	3.37 3.51 3.68 4.08	2105 2121 2166	3.91 4.07 4.46	2201 2237	4.48 4.85	2279 2311	4.91 5.28	2382	5.72	2455	6.19	КРМ	BHP	KPM	ВНР	HPM	ВНР
2400 2600 2800 3000 3200	2183 2271 2274 2360 2452	4.21 4.78 5.39 6.05 6.78	2161 2241 2327 2415 2505	4.56 5.14 5.80 6.49 7.24	2226 2299 2382 2468 2557	4.94 5.51 6.18 6.92 7.70	2292 2356 2435 2520 2607	5.33 5.90 6.58 7.35 8.16	2357 2417 2489 2570 2657	5.75 6.32 6.99 7.76 8.62	2423 2478 2541 2620 2705	6.18 6.74 7.40 8.19 9.07	2489 2537 2599 2671 2752	6.63 7.19 7.85 8.63 9.52	2556 2599 2655 2719 2799	7.11 7.65 8.31 9.07 9.97	2688 2721 2767 2826 2892	8.11 8.63 9.28 10.04 10.91	2843 2880 2929 2991	9.68 10.30 11.05 11.94
3400 3600 3800 4000 4200	2548 2644 2742 2845 2951	7.58 8.45 9.40 10.45 11.59	2597 2693 2790 2888 2991	8.06 8.95 9.92 10.98 12.13	2647 2740 2836 2933 3031	8.54 9.46 10.45 11.53 12.69	2696 2787 2881 2977 3074	9.03 9.97 10.99 12.09 13.27	2745 2834 2925 3020 3117	9.52 10.48 11.52 12.65 13.86	2791 2880 2970 3062	10.01 11.00 12.07 13.21	2837 2925 3014 3104	10.50 11.52 12.61 13.78	2882 2969 3057	10.97 12.05 13.16	2971 3055 3141	11.93 13.05 14.26	3058 3138	12.92 14.07
	800 900 11000 1200 1300 1500 1600 1700 2000 2200 2200 2400 2600 2800 3000 0V FPM 1700 1900 2000 2000 2200 2400 2400 2400 2400 2	800 600 900 649 1000 701 1100 755 1200 810 1300 867 1400 982 1500 982 1600 1040 1700 1099 1158 1900 1217 2000 1516 2400 1516 2400 1516 2400 1877 8PM 1700 1901 1700 1901 1700 1901 1700 1902 2003 2400 271 2800 2271 2800 2274 2800 2274 2800 2274 2800 2274 2800 2274 2800 2274 2800 2274 2800 2274 2800 2274 2800 2274 2800 2274 2800 2274 2800 2274 2800 2264 3400 2548 3600 2644 3800 2644 4000 2845 4200 28951	800 600 .10 900 649 .12 1000 701 .16 1100 755 .19 1200 810 .23 1300 867 .29 1400 924 .34 1500 982 .41 1600 1040 .48 1700 1099 .57 1800 1158 .66 1900 1217 .76 2000 1277 .87 2200 1396 1.14 2400 1516 1.45 2600 1637 1.81 2800 1758 2.24 3000 1879 2.73 0V 4-1/2" SP FPM RPM BHP 1700 1901 2.87 1800 1917 3.00 1900 1936 3.14 2000 1962 3.32 2200 2023 3.72 2400 2183 4.21 2600 2274 5.39 2800 2274 5.39 3000 2360 6.05 3200 2452 6.78 3400 2548 7.58 3600 2644 8.45 3800 2742 9.40 4000 2845 10.45	800 600 .10 700 900 649 .12 742 1000 701 .16 787 1100 755 .19 833 1200 810 .23 881 1300 867 .29 931 1400 924 .34 984 1500 982 .41 1037 1600 1040 .48 1091 1700 1099 .57 1147 1800 1217 .76 1261 2000 1217 .76 1261 2000 1277 .87 1318 2200 1396 1.14 1434 2400 1516 1.45 1552 2600 1637 1.81 1670 2800 1758 2.24 1789 3000 1879 2.73 1908 170 1901 2.87 190 190 1	800 600 .10 .700 .16 900 649 .12 .742 .19 1000 701 .16 787 .22 1100 755 .19 833 .27 1200 810 .23 .881 .31 1300 .867 .29 .931 .37 1400 .924 .34 .984 .43 1500 .982 .41 1037 .50 1600 1040 .48 1091 .58 1700 1099 .57 1147 .67 1800 1158 .66 1204 .77 1900 1217 .76 1261 .88 2000 1277 .87 1318 1.00 2200 1396 1.14 1434 1.27 2400 1516 1.45 1552 1.59 2600 1637 1.81 1670 1.97	800 600 .10 700 .16 797 900 649 .12 742 .19 827 1000 701 .16 787 .22 865 1100 755 .19 833 .27 908 1200 810 .23 881 .31 952 1300 867 .29 931 .37 998 1400 924 .34 984 .43 1046 1500 982 .41 1037 .50 1094 1600 1040 .48 1091 .58 1144 1700 1099 .57 1147 .67 1197 1800 1158 .66 1204 .77 1250 1900 1277 .76 1261 .88 1304 2000 1396 1.14 1434 1.27 1472 2400 1516 1.45 1552 1.59 <	800 600 .10 700 .16 797 .22 900 649 .12 742 .19 827 .25 1000 701 .16 787 .22 .865 .30 1100 755 .19 833 .27 .908 .34 1200 810 .23 .881 .31 .952 .40 1300 .867 .29 .931 .37 .998 .46 1400 .924 .34 .984 .43 .104 .52 1500 .982 .41 .1037 .50 .1094 .60 1600 .1040 .48 .1091 .58 .1144 .68 1700 .1099 .57 .1147 .67 .1197 .77 .1800 .1518 .60 .204 .77 .1250 .88 .1900 .1277 .87 .1318 .1.00 .1359 1.11	800 600 .10 700 .16 797 .22 896 900 649 .12 742 .19 827 .25 914 1000 701 .16 787 .22 865 .30 942 1100 755 .19 833 .27 .908 .34 .977 1200 810 .23 .881 .31 .952 .40 .1018 1300 .867 .29 .931 .37 .998 .46 .1062 1400 .924 .34 .984 .43 .1046 .52 .1106 1500 .982 .41 .1037 .50 .1094 .60 .1152 1600 .1040 .48 .1091 .58 .1144 .68 .1200 1700 .1059 .57 .147 .67 .1197 .77 .1248 1800 .1358 .66 .204 .77 <	800 600 .10 700 .16 797 .22 896 .30 900 649 .12 742 .19 827 .25 914 .33 1100 755 .19 833 .27 908 .34 .977 .42 1200 810 .23 .881 .31 .952 .40 .1018 .48 1300 .867 .29 .931 .37 .998 .46 .1062 .55 1400 .924 .34 .984 .43 .1046 .52 .1106 .62 1500 .982 .41 .1037 .50 .1094 .60 .1152 .70 1600 .1040 .48 .1091 .58 .1144 .68 .1200 .79 1700 .1099 .57 .147 .67 .1197 .77 .1248 .89 1900 .1217 .76 .1261 .88	800 600 1.0 700 1.6 797 2.2 896 3.0 900 649 1.2 742 1.9 827 25 914 3.3 7 1100 701 1.6 787 2.2 865 3.0 942 3.7 1100 1100 755 1.9 833 2.7 908 3.4 977 .42 1119 1200 810 2.3 881 3.1 952 .40 1018 .48 1146 1300 867 2.9 931 .37 998 .46 1062 .55 1178 1400 924 .34 984 .43 1046 .52 1106 .62 1218 1500 982 .41 1037 .50 1094 .60 1152 .70 1260 1600 1040 .48 1091 .58 1144 .68 1200 .79 1304 1700 1099 .57 1147 .67 1197 .77 1248 .89 1348 1800 1158 .66 1204 .77 1250 .88 1297 .99 1393 1900 1217 .76 1261 .88 1304 .99 1349 1.11 1441 2000 1277 .87 1318 1.00 1359 1.11 1402 1.24 1489 1200 1516 1.45 1552 1.59 1586 1.74 1620 1.88 1691 1560 1637 1.81 1670 1.97 1702 2.13 1734 2.28 1798 2800 1758 2.24 1789 2.41 1818 2.58 1848 2.74 1906 2800 1879 2.73 1908 2.91 1936 3.09 1963 3.27 2019 1900 1917 3.00 2005 3.37 1900 1936 3.14 2021 3.51 2105 3.91 2000 1962 3.32 2040 3.68 2121 4.07 2201 4.48 2279 2200 2023 3.72 2095 4.08 2166 4.46 2237 4.85 2311 2400 2183 4.21 2161 4.56 2226 4.94 2292 5.33 2357 2600 2271 4.78 2241 5.14 2299 5.51 2356 5.90 2417 2800 2274 5.39 2327 5.80 2382 6.18 2435 6.58 2489 3000 2452 6.78 2241 5.14 2299 5.51 2356 5.90 2417 2800 2264 3.48 2269 2382 6.18 2435 6.58 2489 3000 2452 6.78 2250 7.24 2557 7.70 2607 8.16 2657 3000 2452 6.78 2505 7.24 2557 7.70 2607 8.16 2657 3000 2452 6.78 2505 7.24 2557 7.70 2607 8.16 2657 3000 2452 6.78 2505 7.24 2557 7.70 2607 8.16 2657 3000 2452 6.78 2505 7.24 2557 7.70 2607 8.16 2657 3000 2452 6.78 25	800 600 .10 700 .16 797 .22 896 .30 900 649 .12 742 .19 827 .25 914 .33 1000 701 .16 787 .22 865 .30 942 .37 1100 .56 1100 755 .19 833 .27 908 .34 .977 .42 .1119 .61 1200 810 .23 .881 .31 .952 .40 .1018 .48 .1146 .67 1300 .867 .29 .931 .37 .998 .46 .1062 .55 .1178 .74 1400 .924 .34 .984 .43 .1046 .52 .1166 .62 .1218 .82 1500 .982 .41 .1037 .50 .1094 .60 .152 .70 .1260 .92 1600 .1040 .48 .1	800 600 .10 .700 .16 .797 .22 .896 .30 .	800 900 600 649 1.10 1.2 700 742 1.9 1.9 827 827 828 2.5 2.5 914 914 33 3.0 37 1100 1100 56 1100 1000 701 16 787 722 22 865 30 30 942 37 37 1100 .56 1100 1200 810 807 23 29 31 37 37 998 981 .46 40 1018 1062 .55 51 1178 .74 41 299 96 1278 999 .86 46 1062 .55 1178 .74 41 299 .96 96 1400 924 .34 984 .43 43 1046 .52 1106 .62 1218 .82 82 1328 1.04 1299 .96 96 1500 982 .41 1037 .50 1094 .60 1152 .70 70 1260 92 1304 .02 1360 1.13 1360 1.13 1360 .13 1414 .68 1204 .77 1250 88 1297 .99 1393 1325 1.43 141 1.37 .13 141 1.37 .13 141 141 141 .13 141 141 .13 141 141	800 600 .10 700 .16 797 .22 896 .30 942 .37 1100 .56 1000 701 .16 787 .22 885 .30 942 .37 1100 .56 1100 .755 .19 833 .27 908 .34 977 .42 1119 .61 1278 .89 1200 810 .23 881 .31 952 .40 1018 .48 1146 .67 1278 .89 1300 867 .29 .931 .37 .98 .46 1062 .55 .1178 .74 .229 .96 .1422 1400 .924 .34 .984 .43 1046 .52 .1106 .62 .1218 .82 .1328 .1.04 .1440 1500 .924 .34 .984 .48 .120 .72 .1366 .12218 .89 .1338	800 600 1.10 700 1.6 797 22 896 30 94 33 100 .56	880 600 110 700 .16 797 22 896 .30 PME .33 .33 .33 .30	800 600 1.10 700 1.6 797 2.2 866 3.0 942 3.7 1100 .56	800 649 1.10 700 1.16 787 22 886 30 942 3.37 1100 .56	800 600 10 700 16 797 22 896 30 942 37 1100 .56	800 600 10 700 16 797 22 886 30 942 37 1100 56 1100 701 16 787 22 865 30 942 37 1100 56 1100 701 16 787 22 865 30 942 37 1100 56 1100 701 16 787 22 865 30 942 37 1100 56 1100 701 16 787 72 19 833 27 996 34 977 42 1119 67 1278 89 1300 867 29 931 37 998 46 1062 55 1178 74 1299 96 1422 121 1100 1300

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Class II Class IIS
RPM 2645 2847

Outlet Area: 1.95 sq. ft.

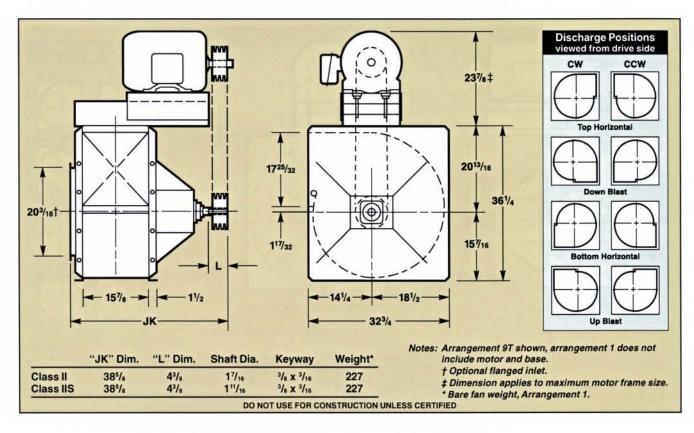
Maximum BHP = .761 (rpm ÷ 1000)³

Tip Speed (fpm) = 5.15 x rpm

18 1/4

	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
CFM	FPM	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	ВНР
1170 1365 1560 1755 1950	600 700 800 900 1000	461 501 544 588 636	.07 .10 .12 .15	578 601 634 673 713	.14 .16 .19 .23 .28	703 721 749 784	.24 .27 .31 .36	811 828 853	.37 .41 .46	996	.69										
2145 2340 2535 2730 2925	1100 1200 1300 1400 1500	685 735 787 839 891	.24 .29 .35 .42 .50	756 799 845 893 941	.33 .38 .45 .53	823 863 905 948 993	.42 .49 .56 .64 .74	885 923 962 1003 1044	.52 .59 .68 .77 .86	1013 1038 1067 1103 1142	.74 .82 .90 1.01 1.13	1157 1177 1203 1232	1.09 1.17 1.28 1.39	1287 1304 1326	1.48 1.58 1.69	1407 1422	1.92 2.03	1518	2.41		
3120 3315 3510 3705 3900	1600 1700 1800 1900 2000	944 998 1051 1105 1159	.60 .70 .81 .94 1.08	990 1041 1093 1144 1196	.71 .82 .94 1.08 1.23	1038 1086 1135 1184 1233	.84 .95 1.08 1.22 1.37	1088 1132 1176 1224 1272	.97 1.09 1.22 1.37 1.53	1182 1222 1263 1306 1350	1.25 1.39 1.53 1.69 1.86	1268 1306 1346 1386 1426	1.53 1.68 1.85 2.02 2.21	1354 1386 1422 1460 1500	1.83 1.98 2.16 2.35 2.56	1443 1469 1497 1532 1568	2.17 2.32 2.49 2.69 2.90	1532 1552 1576 1605 1636	2.54 2.68 2.85 3.05 3.26	1622 1636 1655 1678 1706	2.94 3.08 3.25 3.43 3.65
4290 4680 5070 5460 5850	2200 2400 2600 2800 3000	1268 1377 1486 1596 1706	1.40 1.79 2.24 2.76 3.37	1302 1409 1516 1624 1732	1.56 1.96 2.43 2.97 3.59	1336 1440 1545 1651 1758	1.73 2.14 2.62 3.18 3.81	1370 1470 1573 1677 1782	1.89 2.32 2.81 3.38 4.03	1439 1534 1631 1730 1832	2.24 2.69 3.20 3.79 4.47	1511 1599 1689 1785 1882	2.61 3.08 3.61 4.23 4.92	1580 1664 1751 1839 1933	3.00 3.49 4.05 4.68 5.39	1646 1727 1810 1897 1985	3.39 3.91 4.50 5.16 5.89	1709 1788 1868 1951 2038	3.77 4.34 4.95 5.64 6.40	1771 1846 1925 2006 2089	4.15 4.75 5.41 6.13 6.92
CFM	OV FPM	4-1/2 RPM	"SP BHP	5" RPM	SP	5-1/2 RPM	" SP BHP	6" RPM	SP	6-1/2 RPM	" SP	7" RPM	SP	7-1/2 RPM	"SP BHP	8" RPM	SP	9" RPM	SP	10" RPM	SP
3315 3510 3705 3900 4290 4680 5070 5460 5850 6240 6630 7020 7410	1700 1800 1900 2000 2200 2400 2600 2800 3000 3200 3400 3600 3800	1721 1735 1753 1776 1833 1902 1979 2059 2140 2223 2310 2398 2487	3.51 3.67 3.85 4.06 4.56 5.17 5.87 6.62 7.44 8.34 9.32 10.39 11.56	1815 1829 1848 1897 1958 2031 2109 2189 2271 2355 2442 2530	4.13 4.31 4.51 5.00 5.60 6.31 7.12 7.97 8.90 9.91 11.01 12.21	1905 1920 1961 2017 2084 2159 2238 2318 2400 2485 2572	4.79 4.98 5.46 6.06 6.77 7.60 8.51 9.46 10.50 11.63 12.86	1992 2026 2076 2135 2207 2284 2364 2445 2527 2613	5.48 5.95 6.54 7.24 8.08 9.03 10.03 11.10 12.26 13.51	2063 2092 2134 2190 2256 2330 2408 2488 2569 2652	6.01 6.47 7.05 7.75 8.58 9.54 10.60 11.70 12.88 14.17	2156 2194 2244 2303 2375 2452 2530 2611 2693	7.00 7.58 8.28 9.08 10.06 11.14 12.30 13.52 14.83	2222 2253 2298 2354 2420 2494 2572 2652 2733	7.58 8.13 8.81 9.64 10.59 11.69 12.90 14.16 15.50	2314 2353 2405 2464 2536 2613 2691 2772	8.71 9.38 10.20 11.13 12.25 13.48 14.80 16.17	2433 2463 2506 2560 2620 2692 2769 2847	9.93 10.58 11.38 12.32 13.39 14.65 16.04 17.52	2574 2607 2652 2709 2772 2844	11.86 12.63 13.55 14.65 15.87 17.28
7800 8190 8580	4000 4200 4400	2581 2678 2772	12.86 14.27 15.81	2619 2713 2798	13.50 14.94 16.40	2660 2749 2831	14.18 15.61 17.08	2700 2788	14.86 16.33	2739 2826	15.55 17.04	2777	16.24	2815	16.94						

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Class II Class IIS Class III

RPM 2546 2739 3016

Outlet Area: 2.34 sq. ft.

Maximum BHP = 1.20 (rpm ÷ 1000)³

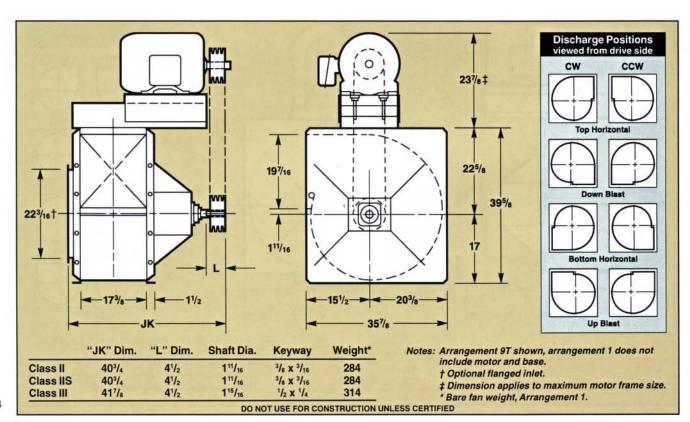
Tip Speed (fpm) = 5.65 x rpm





	OV	1/2"	SP	1"	SP	1-1/2	" SP	2"	SP	2-1/2	" SP	3"	SP	3-1/2	2" SP	4"	SP	4-1/2	" SP	5"	SP
CFM	FPM	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	BHP												
1872 2106 2340 2574 2808	800 900 1000 1100 1200	578 613 650 688 728	.23 .28 .33 .39 .46	740 755 777 807 841	.44 .49 .55 .62 .71	908 924 946	.82 .89 .98	1055	1.31												
3042 3276 3510 3744 3978	1300 1400 1500 1600 1700	770 813 857 902 949	.54 .63 .74 .85	877 914 952 991 1031	.81 .92 1.04 1.17 1.31	973 1006 1041 1077 1114	1,09 1,21 1,35 1,51 1,67	1073 1096 1123 1156 1191	1.41 1.53 1.67 1.84 2.02	1173 1189 1209 1234 1263	1.78 1.89 2.03 2.19 2.38	1283 1296 1315 1338	2.31 2.44 2.60 2.78	1384 1397 1415	2.89 3.04 3.22	1479 1492	3.53 3.70	1569	4.22		
4212 4446 4680 5148 5616	1800 1900 2000 2200 2400	995 1043 1090 1186 1283	1.13 1.29 1.47 1.88 2.36	1072 1115 1158 1248 1340	1.47 1.64 1.83 2.26 2.77	1152 1190 1229 1311 1397	1.84 2.02 2.22 2.68 3.21	1227 1263 1300 1376 1456	2.22 2.43 2.65 3.13 3.69	1296 1331 1367 1440 1516	2.59 2.82 3.07 3.60 4.18	1365 1396 1430 1501 1574	2.98 3.22 3.48 4.06 4.70	1437 1462 1491 1558 1630	3.42 3.65 3.91 4.52 5.21	1509 1530 1554 1614 1683	3.89 4.12 4.37 4.97 5.70	1582 1599 1620 1670 1734	4.40 4.62 4.88 5.46 6.19	1655 1668 1685 1729 1785	4.95 5.17 5.41 5.99 6.71
6084 6552 7020 7488 7956	2600 2800 3000 3200 3400	1381 1479 1578 1677 1777	2.91 3.56 4.30 5.14 6.09	1433 1528 1624 1720 1818	3.37 4.05 4.83 5.71 6.69	1485 1576 1669 1763 1858	3.83 4.54 5.35 6.26 7.29	1539 1625 1714 1805 1897	4.33 5.06 5.89 6.83 7.88	1594 1676 1761 1848 1937	4.85 5.61 6.46 7.41 8.49	1649 1727 1808 1892 1978	5.39 6.17 7.05 8.03 9.12	1703 1778 1856 1936 2019	5.95 6.76 7.66 8.67 9.79	1755 1828 1904 1981 2061	6.50 7.36 8.29 9.32 10.46	1804 1876 1950 2026 2104	7.04 7.96 8.93 9.99 11.16	1852 1923 1996 2070 2146	7.57 8.54 9.57 10.67 11.87
8424	3600	1876	7.15	1915	7.79	1953	8.42	1991	9.05	2028	9.68	2066	10.34	2105	11.02	2144	11.72	2184	12.44	2224	13.18
OV			SP	7"	SP	8"	SP	9"	SP	10"	SP	11'	SP	12	' SP	13"	SP	14"	SP	15	SP
CFM	FPM	RPM	BHP	RPM	BHP																
5148 5616 6084 6552 7020	2200 2400 2600 2800 3000	1847 1891 1946 2012 2082	7.14 7.84 8.68 9.69 10.83	1967 2000 2045 2099 2165	8.41 9.08 9.91 10.89 12.06	2109 2145 2191 2246	10.44 11.25 12.22 13.35	2219 2246 2284 2332	11.91 12.69 13.64 14.75	2347 2377 2419	14.23 15.15 16.26	2447 2471 2505	15.87 16.76 17.84	2565 2593	18.47 19.52	2681	21.29	2768	23.15		
7488 7956 8424 8892 9360	3200 3400 3600 3800 4000	2155 2228 2303 2380 2458	12.04 13.32 14.69 16.18 17.80	2235 2307 2380 2454 2530	13.37 14.77 16.23 17.79 19.47	2312 2382 2453 2526 2600	14.68 16.17 17.76 19.42 21.17	2388 2454 2524 2596 2668	16.06 17.57 19.24 21.02 22.88	2468 2526 2592 2662 2734	17.53 19.02 20.72 22.58 24.57	2549 2600 2660 2727 2797	19.12 20.56 22.24 24.14 26.21	2630 2676 2729 2791 2859	20.77 22.22 23.85 25.74 27.85	2712 2753 2801 2857 2920	22.51 23.94 25.57 27.42 29.52	2794 2830 2873 2923 2981	24.33 25.74 27.36 29.18 31.25	2876 2906 2946 2992	26.24 27.61 29.22 31.04
9828 10296 10764 11232	4200 4400 4600 4800	2539 2622 2707 2793	19.55 21.45 23.50 25.71	2608 2687 2769 2852	21.27 23.22 25.32 27.58	2676 2753 2831 2912	23.04 25.04 27.19 29.50	2742 2817 2894 2972	24.83 26.90 29.11 31.47	2807 2890 2955	26.63 28.78 31.05	2869 2942 3016	28.39 30.66 33.02	2930 3002	30.12 32.51	2989	31.84				

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Class IIS

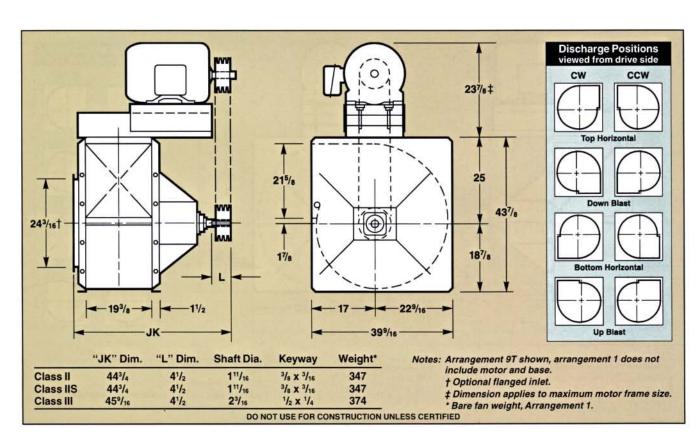
Class III

Outlet Area: 2.90 sq. ft. Maximum BHP = 1.94 (rpm ÷ 1000)³ Tip Speed (fpm) = 6.28 x rpm



	OV	1/2*	SP	11	SP	1-1/2	* SP	2"	SP	2-1/2	* SP	3.	SP	3-1/2	· SP	4.	SP	4-1/2	' SP	5.	SP
CFM	FPM	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	BHP
2900 3190 3480 3770 4060	1000 1100 1200 1300 1400	563 594 627 662 699	.34 .41 .48 .56	681 705 732 761 791	.59 .67 .76 .85	807 828 852 878	.96 1.06 1.17 1.30	938 960	1.51 1.66	1038	2.03										
4350 4640 4930 5220 5510	1500 1600 1700 1800 1900	737 776 815 855 896	.76 .88 1.01 1.16 1.32	822 855 888 923 959	1.08 1.21 1.36 1.52 1.70	906 935 965 996 1027	1.43 1.58 1.74 1.91 2.10	984 1009 1037 1065 1095	1.81 1.97 2.15 2.33 2.54	1059 1081 1105 1131 1159	2.20 2.38 2.57 2.78 3.00	1130 1151 1172 1196 1220	2.60 2.80 3.01 3.23 3.47	1237 1258 1281	3.46 3.70 3.96	1319 1340	4.18 4.45	1397	4.96		
5800 6380 6960 7540 8120	2000 2200 2400 2600 2800	937 1019 1102 1185 1269	1.50 1.91 2.38 2.94 3.57	996 1073 1152 1232 1313	1.89 2.34 2.86 3.46 4.14	1060 1129 1201 1277 1355	2.31 2.78 3.33 3.96 4.69	1125 1188 1254 1325 1398	2.76 3.25 3.83 4.49 5.24	1187 1247 1309 1374 1443	3.23 3.75 4.35 5.04 5.81	1247 1303 1363 1425 1490	3.72 4.28 4.90 5.61 6.41	1305 1358 1415 1475 1537	4.23 4.81 5.47 6.21 7.03	1362 1411 1465 1522 1583	4.74 5.36 6.05 6.82 7.68	1418 1463 1514 1569 1627	5.26 5.92 6.65 7.45 8.33	1472 1515 1562 1615 1671	5.80 6.49 7.25 8.09 9.00
8700 9280 9860 10440 11020	3000 3200 3400 3600 3800	1353 1438 1523 1608 1693	4.30 5.13 6.06 7.11 8.27	1395 1477 1560 1644 1727	4.92 5.79 6.77 7.86 9.06	1435 1515 1596 1678 1760	5.51 6.43 7.45 8.59 9.84	1474 1552 1631 1711 1792	6.09 7.05 8.12 9.30 10.59	1515 1589 1666 1744 1823	6.69 7.68 8.78 10.00 11.34	1557 1628 1701 1777 1854	7.31 8.33 9.45 10.70 12.07	1601 1668 1738 1811 1885	7.96 8.99 10.15 11.42 12.82	1645 1709 1776 1846 1918	8.63 9.69 10.86 12.16 13.58	1688 1750 1815 1882 1951	9.31 10.40 11.60 12.92 14.37	1730 1791 1853 1918 1985	10.01 11.13 12.35 13.69 15.17
	OV	6*	SP	7'	SP	8.	SP	9*	SP	10"	SP	11"	SP	12*	SP	131	SP	14"	SP	151	SP
CFM	FPM	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6380 6960 7540 8120 8700	2200 2400 2600 2800 3000	1614 1657 1704 1756 1811	7.66 8.49 9.40 10.38 11.45	1748 1791 1839 1890	9.76 10.74 11.80 12.94	1876 1920 1967	12.11 13.24 14.45	1958 1999 2043	13.50 14.71 16.00	2076 2117	16.21 17.57	2190	19.16	2260	20.77						
9280 9860 10440 11020 11600	3200 3400 3600 3800 4000	1869 1929 1991 2054 2120	12.62 13.90 15.30 16.82 18.48	1945 2002 2062 2123 2186	14.17 15.51 16.96 18.54 20.25	2019 2073 2130 2190 2251	15.76 17.16 18.68 20.31 22.08	2091 2143 2197 2254 2313	17.38 18.85 20.43 22.12 23.94	2162 2211 2263 2318 2375	19.02 20.56 22.21 23.97 25.86	2233 2278 2327 2380 2435	20.69 22.31 24.03 25.85 27.80	2301 2345 2391 2441 2494	22.38 24.07 25.86 27.76 29.78	2368 2410 2454 2502 2552	24.09 25.86 27.72 29.70 31.78	2474 2516 2562 2610	27.66 29.60 31.65 33.81	2536 2577 2621 2668	29.48 31.50 33.63 35.86
12180 12760 13340 13920	4200 4400 4600 4800	2188 2257 2329 2403	20.29 22.24 24.36 26.63	2250 2316 2385 2455	22.10 24.10 26.27 28.59	2313 2376 2442 2509	23.98 26.03 28.24 30.61	2374 2436 2499 2564	25.91 28.01 30.27 32.69	2434 2494 2556 2618	27.87 30.04 32.35 34.82	2492 2551 2611	29.88 32.10 34.47	2549 2607 2666	31.92 34.20 36.63	2606 2661	33.99 36.34	2662	36.09		

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Class IIS

Class III

Outlet Area: 3.52 sq. ft.

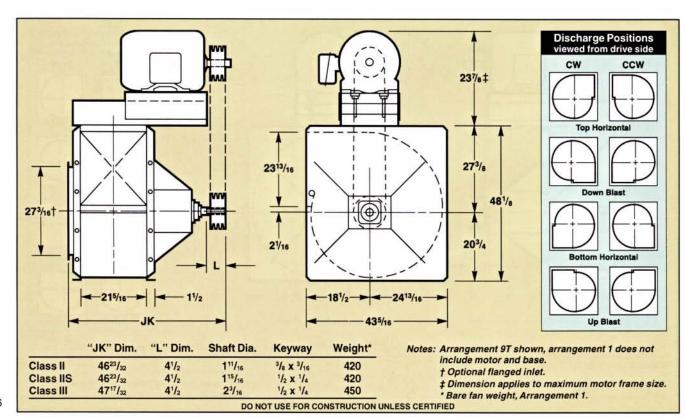
Maximum BHP = 3.14 (rpm ÷ 1000)³

Tip Speed (fpm) = 6.92 x rpm



	OV	1/2	SP	1"	SP	1-1/2	* SP	2*	SP	2-1/2	' SP	3.	SP	3-1/2	' SP	4.	SP	4-1/2	e SP	5"	SP
CFM	FPM	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР
3520 3872 4224 4576 4928	1000 1100 1200 1300 1400	511 540 570 602 635	.42 .49 .58 .68	619 641 665 692 719	.72 .81 .92 1.04 1.17	733 753 774 798	1.16 1.29 1.43 1.58	852 872	1.84 2.01	943	2.46										
5280 5632 5984 6336 6688	1500 1600 1700 1800 1900	670 705 741 778 814	.93 1.07 1.23 1.41 1.61	747 777 807 839 872	1.31 1.47 1.65 1.85 2.06	823 849 877 905 933	1.74 1.92 2.11 2.32 2.55	894 917 942 968 995	2.19 2.39 2.60 2.83 3.08	962 982 1004 1028 1053	2.67 2.89 3.12 3.37 3.64	1027 1045 1065 1086 1109	3.15 3.40 3.65 3.92 4.21	1124 1143 1164	4.20 4.49 4.80	1198 1217	5.07 5.40	1269	6.02		
7040 7744 8448 9152 9856	2000 2200 2400 2600 2800	851 926 1001 1077 1153	1.83 2.32 2.90 3.57 4.35	905 975 1047 1120 1193	2.30 2.84 3.47 4.20 5.04	963 1026 1092 1161 1232	2.81 3.38 4.05 4.82 5.70	1022 1080 1140 1204 1270	3.35 3.95 4.65 5.45 6.36	1079 1133 1190 1249 1311	3.92 4.56 5.29 6.12 7.06	1133 1184 1238 1295 1354	4.52 5.19 5.95 6.82 7.79	1186 1234 1285 1340 1396	5.13 5.84 6.64 7.54 8.54	1237 1282 1331 1383 1438	5.75 6.51 7.35 8.28 9.32	1288 1329 1375 1426 1479	6.39 7.19 8.07 9.04 10.12	1337 1376 1419 1467 1518	7.04 7.88 8.81 9.82 10.93
10560 11264 11968 12672 13376	3000 3200 3400 3600 3800	1230 1307 1384 1462 1539	5.23 6.24 7.37 8.64 10.05	1268 1343 1418 1494 1570	5.98 7.04 8.23 9.55 11.01	1304 1377 1451 1525 1600	6.70 7.81 9.06 10.44 11.96	1340 1410 1482 1555 1629	7.40 8.57 9.86 11.30 12.88	1377 1444 1514 1585 1657	8.13 9.33 10.67 12.15 13.78	1415 1479 1546 1615 1685	8.89 10.11 11.48 13.00 14.67	1455 1516 1580 1646 1714	9.67 10.93 12.33 13.87 15.58	1495 1553 1614 1677 1743	10.48 11.77 13.19 14.77 16.50	1534 1590 1649 1710 1773	11.31 12.63 14.08 15.69 17.45	1572 1627 1684 1743 1804	12.16 13.51 15.00 16.63 18.42
	OV	6*	SP	7.	SP	8.	SP	9.	SP	10*	SP	11'	SP	12"	SP	13'	SP	14"	SP	15"	SP
CFM	FPM	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР
7744 8448 9152 9856 10560	2200 2400 2600 2800 3000	1466 1505 1548 1595 1646	9.29 10.31 11.41 12.60 13.91	1588 1627 1670 1717	11.85 13.04 14.32 15.71	1704 1744 1787	14.70 16.07 17.55	1779 1816 1856	16.39 17.86 19.42	1886 1924	19.67 21.33	1989	23.26	2053	25.22						
11264 11968 12672 13376 14080	3200 3400 3600 3800 4000	1698 1753 1809 1867 1926	15.33 16.89 18.58 20.43 22.45	1767 1819 1874 1929 1986	17.21 18.83 20.60 22.52 24.60	1834 1884 1936 1990 2045	19.13 20.84 22.68 24.66 26.81	1900 1947 1996 2048 2102	21.10 22.88 24.80 26.86 29.08	1965 2009 2056 2106 2158	23.09 24.97 26.97 29.11 31.40	2028 2070 2114 2162 2212	25.12 27.08 29.17 31.39 33.76	2090 2130 2172 2218 2266	27.16 29.22 31.40 33.70 36.16	2151 2189 2230 2273 2319	29.24 31.39 33.65 36.05 38.58	2247 2286 2327 2371	33.58 35.94 38.42 41.05	2304 2341 2381 2423	35.79 38.24 40.82 43.53
14784 15488 16192 16896	4200 4400 4600 4800	1988 2052 2117 2184	24.64 27.02 29.59 32.36	2045 2105 2167 2231	26.85 29.28 31.91 34.74	2101 2159 2219 2280	29.12 31.62 34.30 37.19	2157 2213 2271 2330	31.46 34.02 36.76 39.71	2211 2266 2322 2379	33.85 36.48 39.29 42.29	2264 2318 2373	36.28 38.98 41.86	2316 2368 2422	38.76 41.53 44.48	2367 2418	41.27 44.12	2418	43.82		

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Class IIS

Class III

Outlet Area: 4.27 sq. ft.

Maximum BHP = 5.10 (rpm ÷ 1000)³

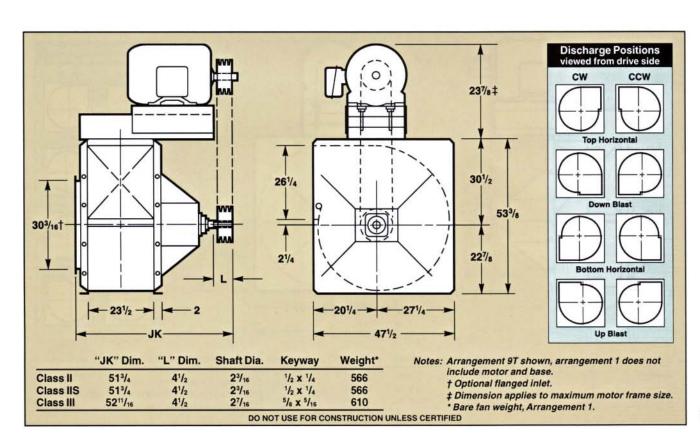
Tip Speed (fpm) = 7.62 x rpm

SIZE

27

	OV	1/2	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	5"	SP
CFM	FPM	RPM	ВНР																		
4270 4697 5124 5551 5978	1000 1100 1200 1300 1400	464 490 517 546 576	.51 .60 .70 .83	561 581 604 627 652	.87 .99 1.11 1.26 1.41	665 683 702 723	1.41 1.56 1.73 1.91	773 791	2.23 2.44	855	2.98										
6405 6832 7259 7686 8113	1500 1600 1700 1800 1900	607 639 672 705 738	1.12 1.30 1.49 1.71 1.95	678 704 732 761 790	1.59 1.78 2.00 2.24 2.50	746 770 795 820 846	2.11 2.32 2.56 2.82 3.10	811 832 854 878 902	2.66 2.90 3.16 3.44 3.74	872 891 911 932 955	3.23 3.50 3.78 4.09 4.41	931 948 966 985 1006	3.82 4.12 4.43 4.76 5.11	1019 1037 1056	5.09 5.45 5.83	1087 1104	6.15 6.56	1151	7.30		
8540 9394 10248 11102 11956	2000 2200 2400 2600 2800	772 839 908 976 1046	2.21 2.81 3.51 4.32 5.26	821 884 949 1015 1082	2.79 3.44 4.21 5.09 6.10	873 930 990 1052 1117	3.40 4.09 4.90 5.84 6.90	927 979 1034 1092 1152	4.06 4.79 5.63 6.61 7.71	978 1028 1079 1133 1189	4.76 5.53 6.41 7.41 8.56	1028 1074 1123 1174 1227	5.48 6.29 7.22 8.26 9.44	1075 1119 1166 1215 1266	6.22 7.09 8.05 9.14 10.36	1122 1163 1207 1255 1304	6.98 7.89 8.91 10.04 11.30	1168 1206 1248 1293 1341	7.75 8.72 9.79 10.97 12.27	1213 1248 1287 1331 1377	8.54 9.56 10.68 11.91 13.26
12810 13664 14518 15372 16226	3000 3200 3400 3600 3800	1115 1185 1255 1325 1395	6.34 7.56 8.93 10.46 12.17	1149 1217 1286 1354 1423	7.24 8.53 9.96 11.57 13.34	1182 1248 1315 1383 1450	8.11 9.47 10.97 12.64 14.48	1215 1279 1344 1410 1476	8.97 10.38 11.95 13.69 15.60	1248 1309 1373 1437 1502	9.85 11.30 12.92 14.72 16.69	1283 1341 1402 1464 1528	10.77 12.26 13.92 15.75 17.78	1319 1375 1432 1492 1554	11.72 13.24 14.94 16.81 18.87	1355 1408 1464 1521 1580	12.70 14.26 15.99 17.90 20.00	1391 1442 1495 1551 1608	13.71 15.31 17.07 19.02 21.15	1425 1476 1527 1581 1636	14.74 16.38 18.18 20.16 22.33
	OV	6*	SP	7.	SP	8"	SP	9,	SP	10'	SP	11'	SP	12"	SP	13*	SP	14*	SP	151	SP
CFM	FPM	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	BHP
9394 10248 11102 11956 12810	2200 2400 2600 2800 3000	1330 1365 1404 1447 1492	11.27 12.50 13.84 15.29 16.86	1441 1476 1515 1557	14.37 15.81 17.37 19.05	1546 1582 1621	17.83 19.50 21.28	1613 1647 1684	19.88 21.66 23.56	1710 1745	23.86 25.87	1805	28.22	1863	30.59						
13664 14518 15372 16226 17080	3200 3400 3600 3800 4000	1540 1590 1641 1693 1747	18.59 20.47 22.53 24.77 27.21	1603 1650 1699 1750 1801	20.87 22.84 24.98 27.30 29.82	1663 1708 1756 1804 1855	23.20 25.27 27.50 29.90 32.50	1723 1766 1811 1858 1906	25.58 27.75 30.08 32.57 35.26	1782 1822 1865 1910 1957	28.01 30.28 32.70 35.30 38.07	1840 1877 1918 1961 2006	30.46 32.84 35.37 38.07 40.94	1896 1932 1971 2011 2055	32.95 35.44 38.08 40.87 43.85	1951 1986 2022 2062 2103	35.47 38.07 40.82 43.72 46.79	2038 2074 2111 2151	40.73 43.59 46.60 49.78	2090 2124 2160 2198	43.41 46.39 49.51 52.80
17934 18788 19642 20496	4200 4400 4600 4800	1803 1860 1919 1980	29.87 32.75 35.86 39.21	1854 1909 1965 2023	32.54 35.49 38.67 42.10	1906 1958 2012 2067	35.31 38.33 41.58 45.07	1956 2007 2059 2113	38.14 41.24 44.57 48.13	2005 2055 2106 2158	41.04 44.22 47.63 51.27	2053 2102 2152	44.00 47.26 50.75	2101 2148 2197	47.00 50.36 53.93	2147 2193	50.05 53.50	2193	53.14		

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Class IIS Class III

2038

1788

Outlet Area: 5.27 sq. ft.

Maximum BHP = 8.41 (rpm ÷ 1000)³

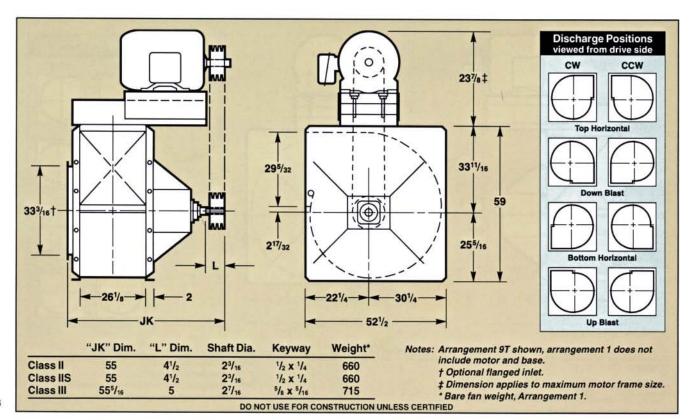
Tip Speed (fpm) = 8.48 x rpm

SIZE



100	OV	1/2*	SP	1"	SP	1-1/2	* SP	2"	SP	2-1/2	e SP	3"	SP	3-1/2	" SP	4.	SP	41/2	SP	5"	SP
CFM	FPM	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP .	RPM	ВНР	RPM	ВНР
5270 5797 6324 6851 7378	1000 1100 1200 1300 1400	425 451 478 505 533	.65 .77 .91 1.07 1.24	512 529 550 573 598	1.07 1.21 1.38 1.58 1.80	623 639 659	1.92 2.12 2.36	708 722	2.78 3.00												
7905 8432 8959 9486 10013	1500 1600 1700 1800 1900	563 592 622 653 683	1.44 1.66 1.90 2.17 2.46	623 649 676 704 732	2.04 2.30 2.58 2.89 3.22	681 704 729 754 780	2.63 2.93 3.25 3.61 3.98	738 757 779 802 826	3.26 3.57 3.92 4.31 4.73	798 812 829 849 870	4.00 4.30 4.64 5.04 5.48	868 882 898 916	5.13 5.45 5.84 6.28	934 947 962	6.36 6.73 7.15	1009	8.11				
10540 11594 12648 13702 14756	2000 2200 2400 2600 2800	714 777 840 904 968	2.79 3.53 4.41 5.43 6.60	760 819 879 939 1001	3.59 4.40 5.35 6.45 7.70	806 861 917 975 1034	4.39 5.28 6.31 7.48 8.81	851 902 955 1010 1067	5.18 6.16 7.27 8.52 9.93	893 942 993 1045 1100	5.96 7.03 8.23 9.57 11.05	936 981 1029 1080 1132	6.77 7.89 9.17 10.60 12.17	979 1019 1065 1114 1165	7.63 8.77 10.11 11.62 13.29	1024 1059 1100 1147 1196	8.58 9.70 11.06 12.64 14.38	1068 1099 1136 1179 1227	9.60 10.69 12.06 13.66 15.48	1139 1172 1212 1257	11.76 13.10 14.72 16.58
15810 16864 17918 18972 20026	3000 3200 3400 3600 3800	1032 1097 1162 1227 1292	7.95 9.48 11.20 13.13 15.27	1064 1126 1190 1253 1317	9.12 10.72 12.52 14.52 16.74	1094 1155 1217 1279 1342	10.30 11.98 13.85 15.93 18.22	1125 1184 1244 1305 1366	11.50 13.25 15.20 17.35 19.71	1156 1213 1271 1331 1391	12.70 14.53 16.55 18.78 21.22	1186 1242 1298 1356 1415	13.91 15.81 17.91 20.22 22.73	1217 1270 1325 1382 1439	15.11 17.10 19.28 21.66 24.25	1247 1299 1352 1407 1463	16.30 18.38 20.64 23.11 25.78	1276 1327 1379 1433 1488	17.48 19.65 22.00 24.55 27.31	1305 1355 1406 1458 1512	18.65 20.92 23.36 25.99 28.83
	ov	6*	SP	7'	SP	8,	SP	9.	SP	10*	SP	11*	SP	12"	SP	13*	SP	14*	SP	15*	SP
CFM	FPM	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	ВНР								
12648 13702 14756 15810 16864	2400 2600 2800 3000 3200	1246 1279 1318 1361 1408	15.39 16.97 18.85 21.01 23.41	1320 1347 1380 1418 1461	17.97 19.46 21.30 23.47 25.94	1416 1444 1476 1515	22.22 23.98 26.10 28.58	1507 1536 1569	26.90 28.94 31.38	1595 1625	32.01 34.37	1681	37.58	1736	41.01						
17918 18972 20026 21080 22134	3400 3600 3800 4000 4200	1457 1508 1559 1612 1666	26.02 28.85 31.87 35.10 38.56	1508 1556 1606 1657 1709	28.68 31.67 34.87 38.28 41.92	1557 1603 1652 1701 1752	31.38 34.48 37.84 41.43 45.26	1608 1650 1696 1744 1794	34.19 37.34 40.81 44.55 48.55	1659 1698 1741 1787 1835	37.15 40.31 43.83 47.69 51.83	1711 1746 1786 1829 1875	40.29 43.42 46.95 50.87 55.12	1764 1795 1831 1872 1915	43.62 46.69 50.21 54.14 58.45	1816 1845 1878 1915 1956	47.17 50.15 53.61 57.53 61.87	1868 1894 1925 1959 1997	50.91 53.80 57.19 61.06 65.38	1944 1972 2003 2038	57.65 60.94 64.75 69.05
23188 24242 25296	4400 4600 4800	1721 1777 1834	42.27 46.24 50.48	1763 1817 1872	45.80 49.94 54.33	1804 1857 1910	49.31 53.62 58.19	1844 1896 1948	52.80 57.28 62.03	1884 1935 1986	56.24 60.92 65.85	1923 1972 2023	59.68 64.51 69.64	1962 2010	63.12 68.11	2000	66.61				

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Class IIS

Class III

Outlet Area: 6.38 sq. ft.

Maximum BHP = 13.5 (rpm ÷ 1000)³

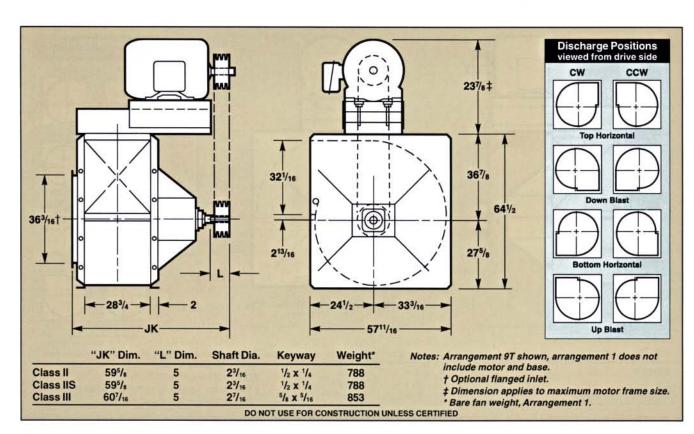
Tip Speed (fpm) = 9.31 x rpm

SIZE

33

	OV	1/2*	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	5*	SP
CFM	FPM	RPM	BHP	RPM	BHP	RPM	ВНР														
6380 7018 7656 8294 8932	1000 1100 1200 1300 1400	387 410 434 459 485	.78 .93 1.10 1.29 1.50	465 481 500 521 544	1.30 1.47 1.67 1.91 2.18	567 581 599	2.33 2.57 2.85	644 656	3.36 3.63												
9570 10208 10846 11484 12122	1500 1600 1700 1800 1900	512 538 566 593 621	1.74 2.01 2.30 2.63 2.99	567 591 615 640 665	2.47 2.78 3.13 3.50 3.90	619 640 663 686 709	3.18 3.54 3.94 4.37 4.82	671 689 708 729 751	3.95 4.33 4.75 5.22 5.73	725 739 754 772 791	4.84 5.20 5.62 6.10 6.64	789 802 816 833	6.21 6.60 7.07 7.60	849 861 875	7.70 8.14 8.65	918	9.82				
12760 14036 15312 16588 17864	2000 2200 2400 2600 2800	650 706 764 822 880	3.38 4.28 5.34 6.57 8.00	691 745 799 854 911	4.34 5.33 6.48 7.81 9,32	733 783 834 887 941	5.31 6.40 7.64 9.06 10.67	774 820 869 919 970	6.27 7.47 8.81 10.32 12.02	812 857 903 951 1000	7.22 8.51 9.97 11.58 13.39	851 892 936 982 1030	8.19 9.56 11.11 12.84 14.74	890 927 968 1013 1059	9.24 10.62 12.24 14.07 16.09	931 962 1001 1043 1087	10.38 11.74 13.40 15.30 17.42	971 999 1033 1072 1115	11.63 12.95 14.60 16.54 18.74	1036 1066 1102 1143	14.24 15.86 17.82 20.07
19140 20416 21692 22968 24244	3000 3200 3400 3600 3800	939 998 1057 1116 1175	9.63 11.48 13.57 15.91 18.50	967 1024 1082 1140 1198	11.05 12.99 15.16 17.59 20.28	995 1051 1107 1164 1221	12.48 14.51 16.78 19.29 22.07	1023 1077 1132 1187 1243	13.93 16.05 18.41 21.01 23.88	1051 1103 1156 1210 1265	15.38 17.60 20.05 22.74 25.70	1079 1129 1181 1233 1287	16.84 19.15 21.70 24.48 27.54	1106 1155 1205 1257 1309	18.30 20.71 23.35 26.23 29.38	1134 1181 1230 1280 1331	19.74 22.26 25.00 27.98 31.22	1160 1207 1254 1303 1353	21.17 23.80 26.65 29.73 33.07	1186 1232 1278 1326 1375	22.58 25.33 28.29 31.47 34.92
	OV	6.	SP	7*	SP	8*	SP	9,	SP	10"	SP	11'	SP	12"	SP	13*	SP	14"	SP	15*	SP
CFM	FPM	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР
15312 16588 17864 19140 20416	2400 2600 2800 3000 3200	1133 1163 1198 1238 1281	18.64 20.55 22.82 25.44 28.35	1200 1225 1255 1289 1329	21.76 23.56 25.79 28.42 31.41	1287 1313 1342 1377	26.90 29.03 31.60 34.61	1370 1396 1427	32.56 35.04 37.99	1450 1477	38.75 41.61	1528	45.50	1578	49.65						
21692 22968 24244 25520 26796	3400 3600 3800 4000 4200	1325 1371 1418 1466 1515	31.52 34.93 38.59 42.51 46.70	1371 1415 1461 1507 1555	34.74 38.35 42.23 46.36 50.77	1416 1458 1502 1547 1593	38.00 41.75 45.82 50.17 54.81	1462 1501 1543 1586 1631	41.39 45.22 49.42 53.95 58.79	1508 1544 1583 1625 1668	44.98 48.81 53.08 57.75 62.77	1556 1588 1624 1663 1705	48.78 52.57 56.85 61.60 66.75	1604 1632 1665 1702 1742	52.81 56.53 60.79 65.55 70.78	1651 1677 1707 1741 1778	57.10 60.72 64.91 69.65 74.92	1698 1722 1750 1781 1816	61.63 65.13 69.24 73.93 79.17	1767 1793 1821 1853	69.79 73.78 78.39 83.61
28072 29348 30624	4400 4600 4800	1565 1616 1668	51.20 56.00 61.14	1603 1652 1702	55.47 60.48 65.80	1640 1688 1737	59.72 64.94 70.48	1677 1724 1772	63.94 69.37 75.12	1713 1759 1806	68.10 73.77 79.75	1749 1793 1839	72.27 78.12 84.33	1784 1827	76.44 82.48	1819	80.66				

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Class IIS

Class III

Outlet Area: 7.80 sq. ft.

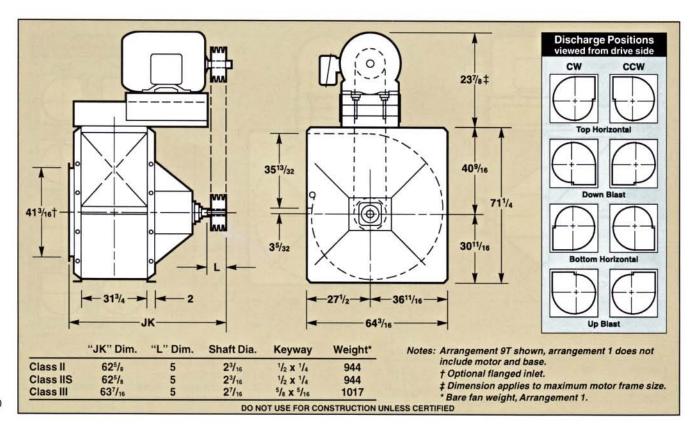
Maximum BHP = 24.2 (rpm ÷ 1000)³

Tip Speed (fpm) = 10.3 x rpm



	OV	1/2*	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	5*	SP
CFM	FPM	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
7800	1000	336	.9	412	1.6																
8580	1100	356	1.1	424	1.8	492	2.6					l				l					1
9360	1200	376	1.3	438	2.0	503	2.8	560	3.8	l		l									
10140	1300	396	1.5	455	2.2	514	3.1	571	4.1			l				1					
10920	1400	416	1.7	473	2.5	526	3.4	582	4.4	633	5.5										
11700	1500	438	2.0	492	2.9	541	3.8	593	4.8	644	5.9	690	7.0								
12480	1600	460	2.3	512	3.2	558	4.2	605	5.2	654	6.3	700	7.5	743	8.8						
13260	1700	483	2.6	532	3.6	577	4.6	620	5.6	666	6.8	711	8.1	753	9.3	793	10.6				1
14040	1800	506	3.0	552	4.1	596	5.1	636	6.1	678	7.3	722	8.6	764	9.9	804	11.3	840	12.7		
14820	1900	530	3.4	572	4.5	615	5.6	654	6.7	693	7.9	734	9.2	775	10.5	814	12.0	851	13.4	886	14.9
15600	2000	554	3.8	593	5.0	635	6.2	673	7.3	709	8.5	747	9.8	786	11.2	825	12.7	862	14.2	897	15.7
17160	2200	602	4.8	636	6.1	675	7.4	712	8.7	745	10.0	778	11.3	813	12.7	848	14.2	884	15.7	918	17.4
18720	2400	652	6.0	682	7.4	716	8.8	752	10.3	784	11.6	815	13.0	845	14.4	876	15.9	908	17.5	941	19.2
20280	2600	702	7.4	728	8.9	759	10.4	792	12.0	824	13.5	853	15.0	881	16.5	909	18.0	938	19.6	967	21.3
21840	2800	753	9.1	776	10.6	803	12.2	833	13.9	864	15.6	893	17.2	920	18.8	946	20.4	972	22.0	998	23.7
23400	3000	803	10.9	825	12.5	849	14.2	876	16.0	904	17.8	933	19.6	959	21.3	985	23.0	1009	24.7	1033	26.5
24960	3200	854	13.0	874	14.7	896	16.5	920	18.3	946	20.3	973	22.2	999	24.1	1024	26.0	1048	27.8	1071	29.6
26520	3400	905	15.4	924	17.2	944	19.0	965	21.0	989	23.0	1014	25.0	1039	27.1	1064	29.1	1088	31.1	1110	33.0
28080	3600	956	18.1	974	19.9	992	21.9	1012	23.9	1033	26.0	1056	28.1	1080	30.3	1104	32.5	1127	34.6	1150	36.7
29640	3800	1007	21.0	1024	23.0	1041	25.0	1059	27.1	1079	29.3	1100	31.5	1122	33.8	1145	36.1	1167	38.4	1189	40.7
	OV	6.	SP	7.	SP	8*	SP	9.	SP	10"	SP	11*	SP	12"	SP	13*	SP	14"	SP	15*	SP
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	BHP
17160	2200	984	20.7	1043	24.1																
18720	2400	1005	22.7	1065	26.4	1121	30.0														
20280	2600	1027	24.9	1086	28.7	1142	32.7	1195	36.6												
21840	2800	1053	27.3	1109	31.3	1164	35.4	1216	39.6	1266	43.9	1312	48.2								
23400	3000	1082	30.1	1134	34.1	1186	38.3	1237	42.7	1287	47.2	1334	51.8	1379	56.3	1422	61.0				
24960	3200	1116	33.3	1163	37.3	1211	41.5	1260	46.0	1308	50.7	1356	55.5	1401	60.3	1444	65.2	1485	70.1		
26520	3400	1153	36.9	1196	40.9	1240	45.1	1285	49.7	1331	54.4	1377	59.4	1422	64.4	1465	69.5	1507	74.7	1547	79.8
28080	3600	1192	40.8	1232	44.9	1272	49.2	1314	53.7	1357	58.5	1401	63.5	1444	68.7	1487	74.1	1528	79.4	1568	84.8
29640	3800	1231	45.0	1270	49.4	1308	53.7	1346	58.2	1386	63.0	1426	68.1	1468	73.4	1509	78.8	1550	84.4	1590	90.0
31200	4000	1271	49.6	1309	54.1	1345	58.7	1382	63.3	1418	68.1	1456	73.1	1494	78.4	1533	83.9	1573	89.6	1612	95.4
32760	4200	1310	54.4	1348	59.2	1384	64.0	1419	68.8	1453	73.6	1488	78.7	1524	83.9	1560	89.4	1598	95.2	-44	1000
34320	4400	1350	59.4	1388	64.7	1424	69.7	1458	74.7	1491	79.7	1524	84.8	1557	90.0	1591	95.5	-			1
35880	4600	1391	64.8	1428	70.4	1463	75.7	1497	81.0	1529	86.2	1561	91.4	1592	96.8	The second second		19.15		-	1
37440	4800	1432	70.5	1468	76.4	1503	82.1	1536	87.6	1568	93.1	1599	98.5	and the same of	10000					1	

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Class II Class III
RPM 1126 1461

Outlet Area: 9.48 sq. ft.

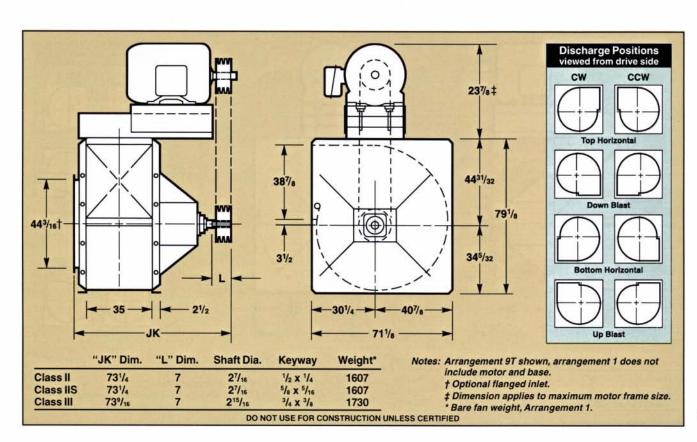
Maximum BHP = 39.5 (rpm ÷ 1000)³

Tip Speed (fpm) = 11.37 x rpm



	OV	1/2*	SP	1.	SP	1-1/2	· SP	2"	SP	2-1/2	" SP	3.	SP	3-1/2	" SP	4.	SP	4-1/2	e SP	5*	SP
CFM	FPM	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
9480 10428 11376 12324 13272	1000 1100 1200 1300 1400	305 323 341 359 378	1.1 1.3 1.6 1.8 2.1	374 385 397 412 429	1.9 2.2 2.4 2.7 3.1	446 456 466 477	3.1 3.5 3.8 4.2	508 518 528	4.6 5.0 5.4	574	6.7										
14220 15168 16116 17064 18012	1500 1600 1700 1800 1900	397 417 437 459 480	2.4 2.8 3.2 3.6 4.1	446 464 482 500 519	3.5 3.9 4.4 4.9 5.5	491 506 523 540 558	4.6 5.1 5.6 6.2 6.8	538 549 562 577 593	5.8 6.3 6.9 7.5 8.2	583 593 604 615 628	7.2 7.7 8.3 8.9 9.6	625 635 645 655 665	8.6 9.2 9.8 10.4 11.1	673 683 693 703	10.6 11.3 12.1 12.8	719 729 738	12.9 13.7 14.5	762 772	15.4 16.3	804	18.1
18960 20856 22752 24648 26544	2000 2200 2400 2600 2800	502 546 591 636 682	4.7 5.9 7.3 9.0 11.0	538 577 618 660 704	6.1 7.4 9.0 10.8 12.8	576 612 649 688 728	7.5 9.0 10.7 12.6 14.8	610 645 681 718 755	8.9 10.6 12.5 14.5 16.8	643 676 711 747 783	10.3 12.1 14.1 16.4 18.9	677 706 738 773 809	11.9 13.7 15.8 18.2 20.9	713 737 766 799 834	13.6 15.4 17.5 20.0 22.8	748 769 794 824 858	15.4 17.2 19.3 21.9 24.8	782 801 823 850 881	17.2 19.1 21.3 23.8 26.7	813 833 853 877 905	19.0 21.1 23.3 25.9 28.8
28440 30336 32232 34128 36024	3000 3200 3400 3600 3800	728 774 820 867 913	13.3 15.8 18.7 21.9 25.5	748 792 837 882 928	15.2 17.9 20.9 24.2 27.9	769 812 855 899 944	17.2 20.0 23.1 26.5 30.4	794 834 875 917 960	19.4 22.3 25.4 29.0 32.9	820 857 897 937 978	21.6 24.6 27.9 31.5 35.5	845 882 919 958 997	23.8 27.0 30.4 34.2 38.3	870 906 942 979 1017	25.9 29.3 32.9 36.8 41.1	893 929 965 1001 1038	28.0 31.6 35.4 39.5 43.9	915 950 986 1022 1058	30.1 33.8 37.8 42.1 46.7	937 971 1006 1042 1078	32.2 36.0 40.1 44.6 49.4
	OV	6*	SP	7'	SP	8*	SP	9.	SP	10*	SP	11:	SP	12"	SP	13*	SP	14"	SP	15*	SP
CFM	FPM	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР												
20856 22752 24648 26544 28440	2200 2400 2600 2800 3000	892 911 931 954 981	25.1 27.6 30.3 33.2 36.6	946 966 985 1005 1028	29.3 32.0 34.9 38.0 41.4	1016 1036 1055 1075	36.5 39.7 43.0 46.6	1083 1103 1122	44.5 48.1 51.9	1148 1167	53.3 57.4	1190 1210	58.5 62.9	1250	68.5	1289	74.1				
30336 32232 34128 36024 37920	3200 3400 3600 3800 4000	1012 1045 1080 1116 1152	40.5 44.8 49.6 54.7 60.2	1054 1084 1117 1151 1186	45.3 49.7 54.6 60.0 65.8	1098 1124 1153 1186 1220	50.5 54.8 59.8 65.3 71.3	1142 1165 1191 1221 1253	56.0 60.4 65.3 70.8 76.9	1186 1207 1230 1256 1286	61.6 66.2 71.1 76.6 82.7	1229 1249 1270 1293 1320	67.4 72.2 77.2 82.7 88.8	1270 1289 1309 1331 1355	73.3 78.3 83.6 89.2 95.2	1309 1329 1348 1368 1390	79.2 84.5 90.0 95.8 101.9	1347 1366 1386 1405 1426	85.2 90.8 96.5 102.5 108.9	1403 1422 1441 1461	97.0 103.1 109.4 115.9
39816 41712 43608 45504	4200 4400 4600 4800	1188 1224 1261 1298	66.1 72.2 78.7 85.7	1222 1258 1295 1331	72.0 78.6 85.5 92.8	1255 1291 1327 1363	77.8 84.7 92.0 99.7	1286 1321 1357 1393	83.6 90.7 98.4 106.5	1318 1351 1386 1422	89.5 96.8 104.7 113.1	1349 1381 1415 1449	95.6 103.0 111.1 119.7	1382 1411 1443	102.0 109.4 117.6	1415 1442	108.7 116.1	1449	115.6		

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.







Class II 1019 RPM

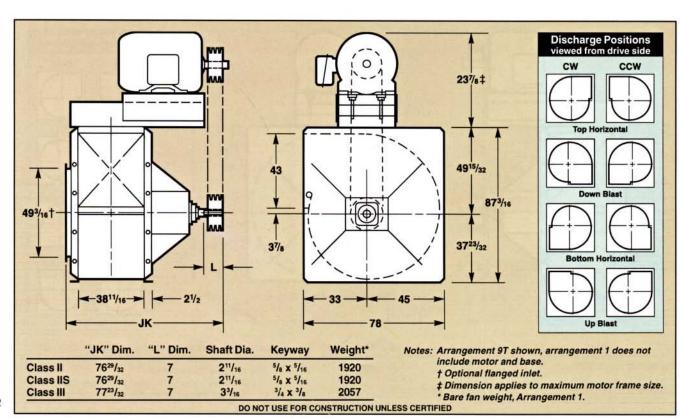
Class III 1321

Outlet Area: 11.58 sq. ft.

Maximum BHP =65.1(rpm ÷ 1000)3 Tip Speed (fpm) =12.57 x rpm

	OV	1/2*	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	5"	SP
CFM	FPM	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP
11580 12738 13896 15054 16212	1000 1100 1200 1300 1400	276 292 308 324 341	1.4 1.6 1.9 2.2 2.6	338 348 359 373 388	2.3 2.6 3.0 3.3 3.8	403 412 421 432	3.8 4.2 4.6 5.1	459 468 477	5.6 6.1 6.6	519	8.1										
17370 18528 19686 20844 22002	1500 1600 1700 1800 1900	359 377 395 415 434	3.0 3.4 3.9 4.4 5.0	404 420 436 452 469	4.3 4.8 5.4 6.0 6.7	444 458 473 488 504	5.6 6.2 6.8 7.6 8.4	486 496 508 522 536	7.1 7.7 8.4 9.1 10.0	528 536 546 556 568	8.8 9.4 10.1 10.9 11.7	565 574 583 592 602	10.5 11.2 12.0 12.8 13.6	609 618 627 635	13.0 13.9 14.7 15.7	650 659 668	15.8 16.8 17.8	689 698	18.8 19.9	727	22.1
23160 25476 27792 30108 32424	2000 2200 2400 2600 2800	454 494 534 575 617	5.7 7.2 9.0 11.0 13.4	486 522 559 597 636	7.4 9.0 10.9 13.1 15.7	521 553 587 622 658	9.2 11.0 13.1 15.4 18.1	551 583 616 649 683	10.9 12.9 15.2 17.7 20.6	581 611 643 675 708	12.6 14.8 17.3 20.0 23.1	613 638 668 699 732	14.5 16.7 19.3 22.2 25.5	645 666 693 722 754	16.6 18.8 21.4 24.4 27.9	676 695 718 745 775	18.8 21.0 23.6 26.7 30.2	707 725 745 769 797	21.0 23.4 26.0 29.1 32.6	736 753 772 793 818	23.3 25.8 28.5 31.6 35.1
34740 37056 39372 41688 44004	3000 3200 3400 3600 3800	658 700 742 783 825	16.2 19.3 22.8 26.8 31.2	676 716 757 798 839	18.5 21.8 25.5 29.5 34.1	696 734 773 813 853	21.0 24.4 28.2 32.4 37.1	718 754 791 829 868	23.7 27.2 31.1 35.4 40.2	741 775 811 847 884	26.4 30.0 34.1 38.5 43.4	764 797 831 866 902	29.1 32.9 37.1 41.7 46.7	786 819 852 885 920	31.7 35.8 40.2 44.9 50.1	807 840 872 905 938	34.2 38.5 43.2 48.2 53.6	827 859 891 924 957	36.7 41.2 46.1 51.4 57.0	847 878 910 942 975	39.3 43.9 49.0 54.5 60.3
	ov	6.	SP	7*	SP	8.	SP	9,	SP	10*	SP	11*	SP	12"	SP	13"	SP	14"	SP	15*	SP
CFM	FPM	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР	RPM	ВНР	RPM	BHP	RPM	ВНР
25476 27792 30108 32424 34740	2200 2400 2600 2800 3000	807 824 842 863 887	30.7 33.8 37.0 40.6 44.7	856 873 891 909 930	35.7 39.1 42.7 46.5 50.6	919 937 954 972	44.6 48.5 52.6 56.9	980 997 1015	54.4 58.8 63.4	1038 1055	65.1 70.1	1076 1094	71.5 76.8	1131	83.6	1166	90,5				
37056 39372 41688 44004 46320	3200 3400 3600 3800 4000	915 945 977 1009 1041	49.4 54.7 60.5 66.8 73.5	953 980 1010 1041 1073	55.3 60.6 66.6 73.2 80.3	993 1016 1043 1072 1103	61.6 67.0 73.0 79.7 87.0	1033 1054 1077 1104 1133	68.4 73.7 79.7 86.4 93.9	1073 1092 1113 1136 1163	75.3 80.8 86.8 93.5 101.0	1112 1129 1148 1170 1193	82.4 88.2 94.3 101.0 108.5	1149 1166 1184 1203 1225	89.5 95.7 102.1 108.9 116.3	1184 1202 1219 1237 1257	96.8 103.2 109.9 117.0 124.5	1218 1236 1253 1271 1289	104.0 110.9 117.9 125.3 133.0	1268 1286 1304 1321	118.6 126.0 133.6 141.6
48636 50952 53268 55584	4200 4400 4600 4800	1074 1107 1140 1174	80.7 88.2 96.1 104.6	1105 1138 1170 1203	87.9 95.9 104.4 113.3	1135 1167 1199 1232	95.0 103.4 112.3 121.8	1163 1195 1227 1259	102.0 110.8 120.1 130.0	1192 1222 1253 1285	109.3 118.2 127.9 138.1	1220 1249 1279 1311	116.7 125.8 135.6 146.2	1249 1276 1305	124.5 133.6 143.6	1279 1304	132.7 141.8	1310	141.3		

Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHP) do not include drive losses.



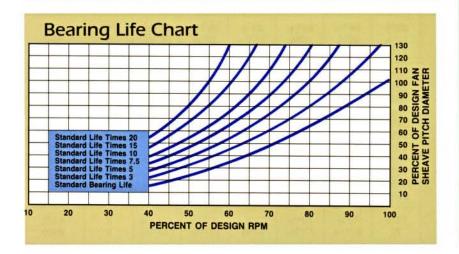
Sound Level Table

FAN						FAN S	PEED	- RPN					
FAN	700	800	900	1000	1200	1400	1600	1800	2000	2400	2800	3200	3600
12-1/4	30	34	37	39	44	48	52	55	58	63	67	71	74
13-1/2	33	37	40	43	47	52	55	58	61	66	70	74	77
15	36	40	43	46	51	54	58	62	65	70	74	78	81
16-1/2	39	43	46	49	54	58	62	65	68	73	77	81	-
18-1/4	43	46	49	52	57	61	65	68	71	76	80	84	-
20	46	49	52	55	60	64	68	71	74	79	83	87	11-4
22-1/4	49	52	56	58	63	67	71	74	77	82	86	-	
24-1/2	52	55	59	61	66	70	74	77	80	85	89	_	_
27	55	58	62	64	69	73	77	80	83	88	-	-	-
30	58	62	65	68	73	77	80	84	87	92	-	_	-
33	61	65	68	71	76	80	83	87	90		-	=	-
36-1/2	64	68	71	74	79	83	87	90	-	-	-	-	-
40-1/4	67	71	74	77	82	86	90		-	-	=		-
44-1/2	70	74	77	80	85	89	93	D	-	_	-	-	_

Design Speeds/Pitch Diameters

FAN	CL	ASS II	CLA	ASS IIS	CL	ASS III
SIZE	RPM	Pitch Dia.*	RPM	Pitch Dia.*	RPM	Pitch Dia.
12-1/4	N.A.	N.A.	4036	3.8	N.A.	N.A.
13-1/2	N.A.	N.A.	3752	4.1	N.A.	N.A.
15	N.A.	N.A.	3425	4.5	N.A.	N.A.
16-1/2	2925	5.3	3141	4.9	N.A.	N.A.
18-1/4	2645	5.8	2847	5.4	N.A.	N.A.
20	2546	6.0	2739	5.6	3040	4.7
22-1/4	2112	7.2	2374	6.5	2668	5.2
24-1/2	1944	7.9	2103	7.3	2423	5.7
27	1833	8.3	1956	7.8	2198	6.3
30	1595	9.6	1788	8.6	2038	7.1
33	1440	10.9	1560	9.8	1853	7.8
36-1/2	1242	12.8	1332	11.5	1612	9.0
40-1/4	1126	9.9	N.A.	N.A.	1461	9.9
44-1/2	1019	11.0	N.A.	N.A.	1321	11.0

^{*} Fan Sheave Pitch Diameter



SOUND LEVELS

Table lists estimated sound levels (dBA) for each size at various speeds within the fan's normal operating range. To determine dBA for a selected fan, locate the intersection of the fan size and the closest RPM.

NOTES:

- Sound levels are based on tests conducted in accordance with AMCA Standard 300, Set-Up No.1.
- Sound level computations are based on a distance of 10' from the fan's open inlet in a free field environment.
- Specific octave band sound power levels and sound pressure levels available on request.
- 4. Sound levels of installed fans can vary greatly from laboratory tests. The dBA ratings are only to be used as estimates. Any comparisons and any detailed calculations should be based upon sound power levels, which are independent of the installation.
- AMCA Certified Ratings Seal applies to air performance only.

BEARING LIFE

Bearing life may be substantially increased or decreased by variations in the operating speed or changes in the V-belt drive. The table at left lists the design speeds (RPM) and fan sheave pitch diameters. The graph below plots the increase or decrease in bearing life when the RPM or fan sheave pitch diameter is changed from the values in the table. Minimum average bearing life is 75,000 hours.

EXAMPLE:

Determine the increased bearing life of a Size 22-1/4 Class II fan operating at 1480 RPM. Assume the fan sheave pitch diameter used on this fan is 7.9 inches.

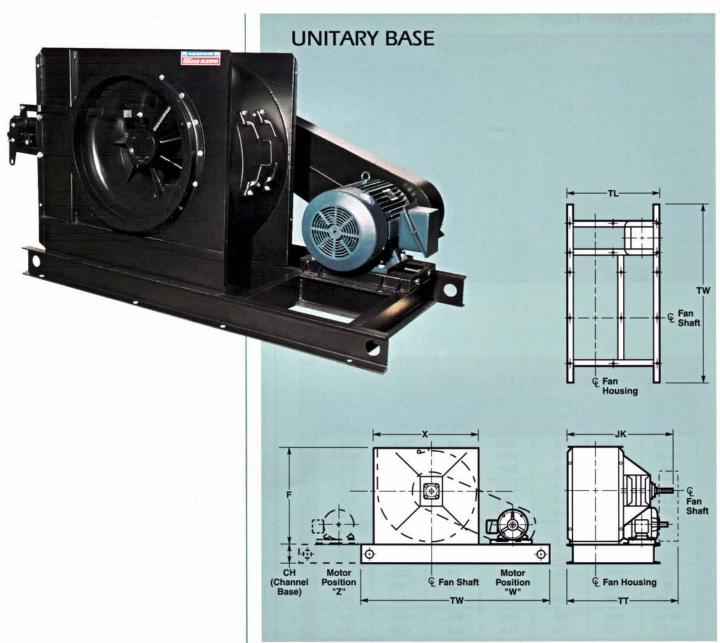
 Calculate operating RPM as a percent of the design RPM.

1480 RPM ÷ 2112 RPM = .701 x 100 = 70.1%. (Use 70%)

Calculate actual fan sheave pitch diameter as a percent of the design fan sheave pitch diameter in the table.

 Locate the intersection of 70% of design RPM and 110% of design fan sheave pitch diameter in the graph. The increased bearing life is 10 times the design minimum bearing life or 750,000 hours minimum average life.





NOTES:

Dimensions shown (in inches) are for clockwise rotation, upblast discharge fans with maximum motor frame in position"W".

Dimensions for counterclockwise rotation, other discharge positions or other motor frames will vary. Dimensions are not for construction unless certified.

Approximate weights include fan, base, motor, V-belt drive, and belt guard.

For belt center data, see your CBC sales engineer.

SIZE	F	X	JK	TL	π	TW	СН	Weight-lbs
121/4	221/2	249/16	293/32	241/2	3519/32	573/16	6	410
131/2	243/4	26 ⁷ /8	30 ¹ /8	251/16	371/8	5813/16	6	450
15	271/4	301/16	331/32	273/16	401/32	6411/16	6	585
161/2	293/4	3215/16	34 ⁵ /8	287/16	415/8	671/2	6	620
181/4	323/4	361/4	38 ⁵ /8	323/16	45 ⁵ /8	7011/16	6	730
20	35 ⁷ /8	395/8	41 ⁷ /8	3415/16	48 ⁷ /8	8011/16	6	1275
221/4	399/16	437/8	459/16	39	529/16	843/8	6	1360
241/2	435/16	481/8	4717/32	4015/16	5417/32	90	6	1525
27	471/2	533/8	5211/16	459/16	603/16	99	6	1970
30	521/2	59	55 ⁵ /16	483/16	6213/16	1049/16	6	2210
33	5711/16	641/2	607/16	5213/16	6715/16	1161/2	6	2740
361/2	643/16	711/4	637/16	551/2	713/16	12915/16	6	3280
401/4	711/a	79¹/a	739/16	6211/16	815/16	1351/16	8	4175
441/2	78	873/16	7723/32	663/4	8523/32	14415/16	8	4900

BELT CENTERS Chicago Blower Fans - Arrangement 9T and 9S, SISW

Fan	Motor	Disc	harge Pos	sition/Rota	ition
Size	Frame	Group A	Group B	Group C	Group D
8¾	48 56, 143-145 182-184	207/8 213/8 223/8	181/8 185/8 195/8	199/16 201/16 211/16	N/A
10	48 56, 143-145 182-184	22 ³ / ₁₆ 22 ⁹ / ₁₆ 23 ⁹ / ₁₆	19% 19% 20%	20 ¹³ / ₁₆ 21 ⁵ / ₁₆ 22 ⁵ / ₁₆	N/A
121/4	48 56, 143-145 182-184 213-215 254-256	N/A 25½6 26½6 26¾6 27¾6	N/A 21½ 22½ 23¼ 24¼	N/A 23½ 24½ 25¼ 26¼	241/4 241/4 241/4 N/A N/A
13½	56, 143-145 182-184 213-215 254-256	261/8 271/8 281/8 291/8	22½ 23½ 24¼ 25¼	24¾ 25¾ 26½ 27½	N/A
15	56, 143-145 182-184 213-215 254-256	285/16 295/16 301/16 311/16	23¾ 24¾ 25½ 26½	26¼ 27¼ 28 29	N/A
16½	56, 143-145 182-184 213-215 254-256	29 ¹⁵ / ₁₆ 30 ¹⁵ / ₁₆ 31 ¹¹ / ₁₆ 32 ¹¹ / ₁₆	25 26 26¾ 27¾	27¾ 28¾ 29½ 30½	25½ 26½ 26¾ 27¾
18¼	56, 143-145 182-184 213-215 254-256	31 ¹³ / ₁₆ 32 ¹³ / ₁₆ 33 ⁹ / ₁₆ 34 ⁹ / ₁₆	267/16 277/16 283/16 293/16	29½ 30½ 31¾ 32¼	26 ¹³ / ₁₆ 27 ¹³ / ₁₆ 28 ⁹ / ₁₆ 29 ⁹ / ₁₆
20	56, 143-145 182-184 213-215 254-256 284-286	33% 34% 35% 36% 37%	28 29 29¾ 30¾ 31½	31% 32% 33% 34% 35	287/16 2813/16 299/16 301/2 311/2

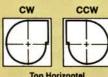
Belt centers include allowances for belt mounting and tensioning. Motor Frames can be either "U" or "T" frame.

Fan Size	Motor Frame	Disc	harge Pos	sition/Rota	tion
Size	Frame	Group A	Group B	Group C	Group D
	56, 143-145	36	297/8	339/16	295/16
	182-184	37	307/8	349/16	305/16
221/4	213-215	373/4	31%	355/16	311/16
	254-256	383/4	325/8	365/16	321/16
	284-286	391/2	33%	371/16	33¾16
	56, 143-145	383/8	31¾	3513/16	3013/16
	182-184	39%	323/4	3613/16	313/4
241/2	213-215	401/8	331/2	37%16	327/16
	254-256	411/8	341/2	389/16	337/16
	284-286	417/8	351/4	395/16	34%
	56, 143-145	411/2	331/8	381/4	321/2
	182-184	421/2	347/8	391/4	337/16
27	213-215	431/4	35%	40	343/16
	254-256	441/4	365/8	41	353/16
	284-286	45	37%	413/4	38
	56, 143-145	4411/16	365/16	423/4	347/16
	182-184	4511/16	375/16	433/4	357/16
30	213-215	467/16	381/16	441/2	363/16
	254-256	477/16	391/16	451/2	371/8
	284-286	483/16	3913/16	461/4	401/16
	182-184	487/8	395/8	453/16	37%16
10000	213-215	49%	403/8	4515/16	385/16
33	254-256	50%	413/8	4615/16	395/16
	284-286	51%	421/8	4711/16	429/16
	182-184	529/16	4211/16	4811/16	409/16
	213-215	535/16	437/16	497/16	415/16
361/2	254-256	545/16	447/16	507/16	425/16
	284-286	551/16	453/16	513/16	45¾
	182-184	57	461/8	521/8	431/4
401/	213-215	573/4	467/8	53%	44
401/4	254-256	58¾	471/8	54%	453/16
	284-286	591/2	48%	55%	4811/16
	182-184	611/2	49¾	57	4515/16
	213-215	621/4	501/2	573/4	4611/16
441/2	254-256	631/4	511/2	58¾	47%
	284-286	64	521/2	591/2	515/8

Discharg	ge
Position.	/Rotation

	Group A		Group B		Group C	Group D
TH	CW, CCW -TOP	ВН	CW, CCW -TOP	DB	CW, CCW -TOP	UB CW, CCW -TOP
DB	CCW - SL	DB	CCW - SR	TH	CCW - SR	OFFSET MOTOR BASE
DB	CW - SR	DB	CW - SL	TH	CW - SL	
UB	CCW - SR	UB	CCW - SL	BH	CCW - SL	
UB	CW - SL	UB	CW - SR	UB	CW - SR	

Positions of Discharge and Rotation (viewed from drive side)















Bottom Horizontal

[&]quot;T" Base (56-256) is available on sizes 12 1/4 - 44 1/2 SISW.

[&]quot;T" Base (284-286) is available on sizes 20 - 44 1/2 SISW.

Refer to factory for Arrangement 9H.



Engineering Specifications Centrifugal SOB Fans

a. GENERAL:

Provide a high performance, low maintenance, centrifugal fan with backward inclined wheel and hyperbolic wheel cone. Fan shall be licensed to bear the AMCA Certified Ratings Seal for Air Performance based on tests and procedures in accordance with AMCA standard 211. Fans must be manufactured and assembled in the U.S.A. Acceptable vendors: Chicago Blower Corporation

b. PERFORMANCE:

Performance shall include steep pressure and non-overloading horsepower characteristics. Mechanical efficiency shall be no less than 80%. Wheel inlet cone to be designed to ensure smooth, stable air flow across the entire operating range. System static pressure changes of 30% shall result in no more than 10% CFM reduction.

c. HOUSING:

Fan housing shall be rectangular and of welded, heavy gauge construction with four common discharge positions. Scroll is to be continuously welded air-tight, with flanged housing sides and outlet for added stiffness. Bearing brackets are to be bolted to allow bearing service without removing wheel.

d. ROTOR:

Wheel shall have cast iron hub (steel hubs on sizes 40-1/4 and 44-1/2) lock-bolted to a heavy backplate. Blades must be single sheet, high strength, low alloy, ASTM A242 Corten steel, continuously welded to the backplate and hyperbolic wheel cone. Wheels to be statically and dynamically balanced to G 6.3 standards in accordance with ISO 1940 and ANSI S2.19 specifications. Shaft shall be turned, ground and polished 1045 hot rolled steel straightened to a maximum T.I.R. of .002 inches and mounted using 4-bolt flange bearings. Shaft critical speed shall not be less than 1.2 times class maximum RPM.

e. MOUNTING:

Housing flanged to be integral to foundation. Housing and adjustable motor base to be welded to unitary base (accessory). (Arrangement 9T and 9S fans to have motor mounted on adjustable motor base.)

f. FACTORY MOUNTED MOTORS AND DRIVES (Accessory)

Motors and drives to be factory mounted. Unit to be tested at running speed for vibration and balance. Filtered vibration readings, taken at bearings, not to exceed .15 inches per second.

g. INLET VOLUME CONTROL (Accessory)

Inlet volume control (IVC) device shall be totally enclosed within the inlet cone. IVC device shall be 7-bladed, and pre-spin the incoming air to control volume pressure.

h. ACCESSORIES (Choose from the following accessories)

Slip-fit Inlet

Flanged Inlet - Punched Holes

Flanged Outlet - Punched Holes

Companion Flange - Punched or Unpunched - Inlet, Outlet or Both

Type "C" AMCA Spark Resistant Construction

1-1/2" NPT Housing Drain

Shaft Seal

Quick Clamp or Flush Bolted Access Door

Inlet Screen

Shaft Cooling Wheel with OSHA Guard (Required from 300° - 650°)

Adjustable Motor Base compatible with sizes: 56 - 184T, 213T - 256T, 284T - 286T

Shaft and Bearing Guard with Extended Grease Tube Fittings

Totally Inclosed Belt Guards with Ventilation Panels

Constant or Adjustable Speed V-Belt Drives, minimum 1.2 S.F.

Outlet Damper - Parallel or Opposed Blades. Manual Operation with Locking Quadrant



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SQA FANS

The airfoil bladed fan is the most efficient wheel type and is recommended primarily for clean air applications. Like all Chicago Square Fans, the SQA has flanged edges on all four sides for added strength and for mounting in any of the four discharge positions. Stock sizes range from 8-3/4 to 44-1/2 with volumes to 55,600 CFM and pressures to 16" wg. Ask for Bulletin SQA.

SQAD and SQBD FANS

Chicago's square fans are available in a compact direct connected design, primarily use in packaged supply, combustion air and exhaust applications. Choice of 12 sizes

and motor speeds covers a wide range of performance. The fans feature all welded construction with rugged steel plate motor base. Ask for Bulletin SQD.

SQI FANS

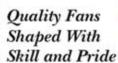
Using industrial duty radial blades that resist material build-up, the SQI fan is especially recommended for sticky, heavy or abrasive applications. With welded heavy steel plate housing, steel wheels and oversized bearings, the SQI is a hard working industrial fan designed for pressures to 18" wg. Inlet diameter sizes from 5" to 17". Options include finishes to meet customer specifications. Ask for Bulletin SQI.



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