

CAST
ALUMINUM
PRESSURE
BLOWER



The same marque that has identified higher quality, extremely durable industrial fans for over 50 years is now cast into a new series of aluminum pressure blowers.



Chicago Blower's new series of cast aluminum pressure blowers fills the diverse needs of high pressure applications from combustion air to fume and dust control to food processing.

Chicago castings blend aluminum with high-strength alloys to create strong, corrosion-free housings and wheels ideal for adverse industrial environments. Aluminum also stands up to sub-zero ambients without material deterioration. Since aluminum is nonmagnetic and non-toxic, Chicago's pressure blowers are recommended for both electronic and food related applications. The non-sparking properties qualify Chicago's pressure blowers for AMCA Type B spark resistant rating.

"Industrial Quality" has long described Chicago's rugged construction and guarantees exceptional performance and reliability.

Our fan's most important feature is the reliability we are able to add to your product. If you are unsure of a fan selection for a specific application, your Chicago representative will help provide recommendations. Chicago Blower offices are located throughout North America and around the world.



with five wheels of differing widths and diameters.

Each of the eight pressure blower housings can be fitted with multiple wheel/inlet configurations to match the volume required for the application. Depending on any one size there is up to 24 combinations available.

Blower size 1000 is available

With all these possible selections, the user gains the efficiency and maintenance-free advantages of direct drive with the performance versatility of belt drive. Even if performance needs should change in the future, an alternate

wheel can be easily fitted to meet the new requirement. No wasted motion. The housing and motor will usually remain unchanged.

Chicago's Design 38 cast aluminum pressure blowers are offered in eight sizes from 8" to 18-1/2" in combination with 64 unique wheels, all stocked for quick assembly. They produce flows to 5000 CFM and static pressures to 20" wg. and have been performance verified in an AMCA certified lab.

Chicago's Wheel
Designs Meet
Your Precise
Performance
Requirement with
Direct Drive
Reliability

Sixbladed radial wheel

Eightbladed radial wheel Backward curved wheel





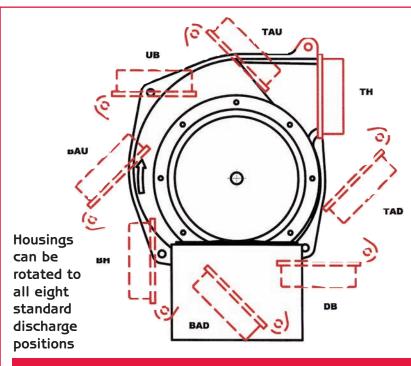


WHEELS

Chicago offers two basic types of cast aluminum wheels. Radial blades are the most commonly used and provide the best overall performance. They consist of either six or eight blades depending on wheel diameter. Backward curved blades have inherently different performance characteristics, are somewhat quieter, but are not self-cleaning.

Wheels with tip speeds to 13,000 fpm are cast of 319 aluminum while higher speed wheels are 356 aluminum and heat treated. All wheels utilize an integral straight bore hub and are statically and dynamically balanced.

Quality
Features
from the
Quality
Company



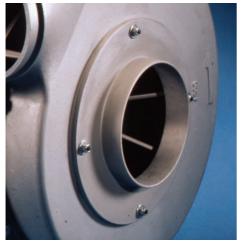
HOUSINGS

Chicago's Design 38 pressure blowers have housings cast of 319 aluminum. Their unique split housing design with both inlet and drive side cover plates provide more installation and application versatility.

With bolted cover plates, the

blower's flow is *reversable* for either clockwise or counterclockwise rotation. In addition, the housings are *rotatable* to eight standard discharge positions. Bolted construction facilitates field changeover and also simplifies periodic cleanout.







INLETS/OUTLETS

The basic slip fit inlet is standard on Chicago's pressure blowers and is cast into the inlet coverplate.

Diameters are available from 4" to 10" for convenient fit of ductwork. The variety of inlet sizes helps fine tune performance for direct drive blowers.

The outlet is cast into each housing half in 4" to 8" diameters for a slip fit duct connection.



SHAFT SEAL

A virgin teflon sheet is bolted to the drive side of the housing. The seal is designed to reduce airstream leakage and contamination through the blower shaft opening in the housing.



RUGGED MOTOR BASE

A heavy gauge steel pedestal holds the motor firmly in place. The flanged and welded construction provides exceptional rigidly.

Motors from recognized manufacturers are factory mounted and tested at running speed for vibration and balance.

BLOWER ARRANGEMENTS



DIRECT DRIVE

- Arrangement 4, with c-face flange and/or foot mounted motor.
- Arrangement 4V, vertical mount with c-face flange mounted motor. Includes flanged inlet.

BELT DRIVE

- Arrangement 1 includes heavy steel bearing pedestal.
- Arrangement 9 as above except includes motor slide base. Motor and drives are factory mounted.

OPTIONAL ACCESSORIES

FLANGED INLETS/OUTLETS

Cast aluminum flanges mount to either inlet or outlet. Inlet flange holes are on centerline. Outlet flange holes straddle centerline.

HOUSING DRAIN

To facilitate cleanout, a 1/2" drain with plug is located in the lowest point of the housing.

VIBRATION ISOLATORS

Rubber-In-Shear (RIS) isolators with steel mounting plate molded in are available for vibration sensitive installations. They provide 1/4" static deflection.

SLIDE GATE DAMPERS

Dampers allow manual adjust of air volume to suit the application. Housings are cast aluminum with a galvanized steel gate and screwlock to hold gate firmly in place. Dampers are available for inlet or outlet in either full cutoff style mounted on the housing, or half cutoff style that mounts to ductwork.

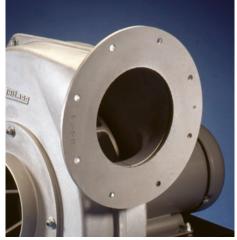


INLET/OUTLET SCREENS

Spiral welded steel screen with zinc, clear chromate finish mounts over the standard slip fit inlet or outlet. Screens are strongly recommended for installations with unducted inlets or outlets.

INLET FILTER

Efficient inlet filters are available as either a disposable paper type or as a cleanable, reusable wire mesh. The cannister has a flanged base for mounting to a flanged inlet.







Half cut-off slide gate damper on a Series 1400 blower with bottom angular up discharge. Ductwork not shown.



PRESSURE BLOWER SELECTION

Blower 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 blower selection has been made.

EXAMPLE:

Select a pressure blower to handle 1000 CFM at 2.75" SP, 100°F and at 1000 feet above sea level.

Refer to the Temperature/Altitude table. At 1000 feet and 100°F, the correction factor is 1.10.

Corrected SP is 1.10×2.75 " SP = 3.025" SP at 70°F and sea level. To simplify, use 3.00" SP.

FOR DIRECT DRIVE

Using the Direct Drive Performance tables, enter the tables at the required Static Pressure, 3.00" SP. Reading down the column, find the CFM rating(s) that meet the required 1000 CFM. Several blowers meet this requirement, one of which is a Model 1400 with a 12-1/4" x 2-7/8" wheel and 6" inlet. The blower will run at 3450 RPM and require 2.46 BHP at 70°F and sea level.

Correct the BHP. Divide 2.46 by the correction factor (1.10). $2.46 \div 1.10 = 2.24$ BHP at 100°F and 1000' altitude.

FOR BELT DRIVE

Using the Belt Drive Performance tables, one selection for 1000 CFM at 3" SP would also be a Model 1400. The blower will run at 2470 RPM and require 1.45 BHP at 70°F and sea level. (Actual RPM and BHP was calculated by interpolating between the 1050 and 900 CFM in the tables.)

Correct the BHP. Divide 1.45 by the correction factor (1.10). $1.45 \div 1.10 = 1.32$ BHP at 100° F and 1000° altitude.

NOTE:

When several ratings meet the requirements, usually the lowest brake horsepower requirement will provide the most efficient and quietest selection.

Identical performances can be

Temperature and Altitude Correction

AIR		ALTIT	UDE (feet)	with BAR	OMETRIC	PRESSUE	RE (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

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

Refer to Chicago Blower's Selection program, fan.net, for performance, fan curves and sound data. Contact your local Chicago Blower sales engineer for software and assistance.





3450 RPM

			1	1 1	" SP	2	" SP	1 3	" SP	1 4	" SP	1 6	"SP	8	" SP
)	Model	Wheel	Inlet	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
	800	8 x 2 1/4	4	269	0.43	238	0.39	157	0.34						
	800	8 x 2 3/4	4	276	0.57	246	0.53	170	0.45			l		1	
	900	8 x 2 3/4	5	353	0.41	294	0.32	237	0.28	144	0.21				
	900	8 1/2 x 2 3/4	5	392	0.49	344	0.45	293	0.40	225	0.33			l	
_	900	9 x 2 7/8	5	436	0.59	393	0.55	342	0.48	290	0.43	1		l	
ø	900	9 3/4 x 2 7/8	5	491	0.73	452	0.69	413	0.64	369	0.57	219	0.38	l	
	900	10 5/8 x 2 7/8	5	557	0.99	521	0.93	487	0.87	454	0.81	366	0.66	<u> </u>	
9	1000	9 x 2 7/8	6	594	0.95	528	0.85	440	0.73	343	0.50				
w	1000	9 3/4 x 2 7/8	6	685	1.18	625	1.10	558	1.00	469	0.90	205	0.58		
	1000	10 5/8 x 2 7/8	6	787	1.43	730	1.36	665	1.27	601	1.20	456	0.98		
	1000	11 x 2 3/4	6	811	1.57	753	1.47	690	1.39	625	1.32	489	1.16		
3	1000	11 1/2 x 2 7/8	6	857	1.94	798	1.85	741	1.72	681	1.63	551	1.40	368	1.03
8	1200	10 5/8 x 2 7/8	7	964	1.82	892	1.72	815	1.61	726	1.47	473	1.10		
35	1200	11 x 2 3/4	7	1063	2.14	1008	2.03	929	1.90	772	1.71	529	1.26	200	ا ۱۵۰ ا
20	1200	11 1/2 x 2 7/8	7	1131	2.57	1075	2.39	1005	2.22	896	2.05	639	1.67	392 552	1.24
28	1200	12 x 2 7/8	7	1198	2.89	1152	2.73	1100	2.54	1029 1061	2.38	759	2.01		
	1200	12 1/4 x 2 7/8	7 7	1226 1342	3.00 3.71	1180 1289	2.83 3.50	1128 1242	2.64	1202	2.49 3.15	821 1125	2.10 2.82	613 870	1.73 2.50
20	1200	13 x 3 1/4	6	1087	2.70	1050	2.59	1006	2.46	933	2.36	702	2.00	527	1.65
80	1400 1400	12 1/4 x 2 7/8 14 x 3 1/4 BC	6	1155	3.17	1114	3.10	1069	3.02	1018	2.95	892	2.75	755	2.44
93	1400	13 x 3 1/4	6	1203	3.20	1173	3.08	1139	2.94	1085	2.77	878	2.45	737	2.14
	1400	14 x 3 1/4	6	1329	4.19	1298	4.06	1264	3.91	1223	3.76	1078	3.46	932	3.09
10	1400	14 x 3 1/4 BC	7	1346	3.61	1304	3.53	1257	3.43	1194	3.33	1008	3.06	843	2.76
1	1400	12 1/4 x 2 7/8	7	1387	3.26	1318	3.05	1241	2.83	1144	2.58	816	2.09	580	1.65
	1400	12 1/4 x 2 7/8	8	1439	3.37	1356	3.18	1264	2.98	1148	2.75	807	2.21	480	1.68
	1400	14 x 3 1/4 BC	8	1446	3.74	1388	3.58	1338	3.44	1291	3.30	1178	2.97	877	2.61
	1400	13 x 3 1/4	7	1525	4.00	1452	3.76	1385	3.54	1324	3.32	1188	2.87	862	2.37
20	1400	13 x 3 1/4	8	1639	4.29	1557	4.05	1462	3.77	1368	3.48	1205	3.07	833	2.53
16	1400	14 x 3 1/4	7	1727	5.20	1678	4.99	1626	4.77	1568	4.53	1414	4.01	1259	3.49
	1400	14 x 3 1/4	8	1820	5.36	1752	5.15	1679	4.92	1596	4.67	1437	4.12	1277	3.53
20	1500	14 x 3 1/4 BC	6	1333	3.46	1287	3.39	1233	3.30	1155	3.23	971	3.01	788	2.69
80	1500	14 x 3 1/4	6	1477	4.46	1436	4.28	1392	4.09	1343	3.90	1202	3.70	994	3.39
93	1500	15 1/2 x 5 BC	6	1582	5.15	1552	5.14	1517	5.11	1482	5.03	1413	4.76	1333	4.41
	1500	16 1/2 x 4 3/8 BC	6	1708	6.37	1685	6.30	1660	6.22	1635	6.14	1577	5.95	1492	5.71
20	1500	16 1/2 x 5 BC	6	1713	6.28	1705	6.21	1697	6.14	1689	6.06	1646	5.89 6.05	1552 1504	5.71
88	1500	15 1/2 x 5	6	1753	6.66	1721 1769	6.54 4.39	1688 1671	6.43 4.18	1655 1569	6.31 3.97	1584 1388	3.53	989	5.62 3.02
в	1500	14 x 3 1/4 BC	8	1857	4.59 8.35	1878	8.21	1856	8.07	1832	7.92	1779	7.59	1711	7.21
	1500	16 1/2 x 4 3/8	6 6	1901 1902	8.60	1877	8.44	1852	8.28	1827	8.11	1773	7.77	1712	7.21
20	1500 1500	16 1/2 x 5 14 x 3 1/4 BC	10	2101	5.20	1992	4.95	1874	4.66	1742	4.33	1462	3.75	1083	3.13
80	1500	14 x 3 1/4	8	2155	6.18	2066	6.02	1984	5.87	1908	5.58	1746	4.92	1483	4.01
20	1500	15 1/2 x 5 BC	8	2355	7.77	2326	7.49	2270	7.26	2201	7.03	2042	6.58	1874	6.12
5	1500	16 1/2 x 4 3/8 BC	8	2514	8.94	2459	8.76	2403	8.59	2345	8.40	2220	7.99	2076	7.52
83	1500	14 x 3 1/4	10	2532	7.22	2416	6.84	2294	6.48	2170	6.19	1943	5.46	1679	4.38
23	1500	16 1/2 x 5 BC	8	2609	9.05	2577	8.84	2536	8.57	2457	8.47	2269	8.03	2085	7.67
20	1500	15 1/2 x 5	8	2612	10.10	2558	9.80	2501	9.50	2442	9.18	2304	8.57	2142	7.91
8	1500	16 1/2 x 4 3/8	8	2795	11.67	2742	11.45	2687	11.22	2631	10.98	2510	10.48	2376	9.92
50	1500	15 1/2 x 5 BC	10	2804	9.51	2732	9.05	2623	8.63	2498	8.24	2257	7.57	2081	7.03
9	1500	16 1/2 x 5	8	2831	11.92	2774	11.69	2717	11.45	2658	11.20	2535	10.68	2399	10.07
61	1500	16 1/2 x 4 3/8 BC	10	2940	10.23	2873	10.06	2802	9.89	2727	9.70	2547	9.22	2332	8.62
83	1500	16 1/2 x 5 BC	10	3009	10.95	2941	10.45	2858	10.12	2763	9.74	2575	9.23	2414	8.81
100	1500	15 1/2 x 5	10	3167	12.13	3086	11.68	3001	11.21	2910	10.70	2692	10.05	2465	9.24
5	1500	16 1/2 x 4 3/8	10	3410	14.66	3336	14.22	3260	13.77	3179	13.28	2985 3039	12.30	2742 2839	11.33
100	1500	16 1/2 x 5	10	3445	14.27	3370	13.90	3293	13.53	3213	13.14		12.33	748	11.45
44	1800	14 x 3 1/4 BC	6	1150	3.28	1113	3.18	1071	3.06	1017	2.99	880 1054	2.78		2.51
	1800	14 x 3 1/4	6	1308	4.22	1261	4.07 3.65	1213 1322	3.92 3.56	1164 1279	3.76 3.42	1054 1184	3.40	919 864	2.71 2.72
1	1800	14 x 3 1/4 BC	10	1429 1500	3.76 3.89	1372 1437	3.65 3.75	1381	3.62	1328	3.42	1147	3.16	832	2.72
	1800 1800	14 x 3 1/4 BC 16 1/2 x 4 3/8 BC	6	1530	6.06	1510	5.96	1490	5.86	1470	5.76	1426	5.55	1378	5.31
9	1800	16 1/2 x 4 3/6 BC	8	1656	5.28	1595	5.00	1539	4.73	1487	4.51	1387	4.10	1235	3.63
	1800	16 1/2 x 4 3/8	6	1673	8.03	1653	7.88	1633	7.72	1612	7.56	1568	7.24	1520	6.89
	1800	14 x 3 1/4	10	1779	5.96	1713	5.63	1645	5.30	1575	5.06	1434	4.58	1294	3.91
34	1800	18 x 4 3/8	6	1857	10.86	1842	10.70	1828	10.53	1813	10.37	1782	10.02	1749	9.64
24	1800	16 1/2 x 4 3/8 BC	8	2038	7.84	2000	7.69	1963	7.53	1925	7.37	1847	7.05	1767	6.70
10	1800	16 1/2 x 4 3/8	8	2214	9.92	2171	9.70	2129	9.48	2088	9.27	2011	8.85	1938	8.42
	1800	16 1/2 x 4 3/8 BC	10	2221	8.35	2163	8.17	2108	8.00	2057	7.84	1965	7.51	1880	7.10
	1800	16 1/2 x 4 3/8	10	2414	10.52	2353	10.18	2295	9.85	2242	9.55	2148	9.05	2061	8.59
Eq.	1800	18 x 4 3/8	8	2461	13.46	2417	13.23	2374	13.01	2333	12.80	2255	12.40	2184	11.93
10	1800	18 x 4 3/8	10	2682	13.86	2631	13.61	2580	13.36	2531	13.12	2439	12.66	2353	12.14
87	1829	15 1/2 x 5 BC	8	2392	8.20	2354	7.86	2284	7.57	2197	7.29	2011	6.78	1845	6.31
	1829	16 1/2 x 5 BC	8	2587	9.57	2565	9.24	2530	9.12	2430	8.77	2250	8.39	2077	8.02
100	1829	15 1/2 x 5	8	2620	10.74	2563	10.34	2505	9.93	2442	9.49	2297	8.94	2130	8.33
-	1829	16 1/2 x 5	8	2823	12.78	2772	12.50	2719	12.22	2665	11.94	2549	11.32	2419 2115	10.62 7.32
100	1829	15 1/2 x 5 BC	10	2895	10.12	2813	9.67	2685 2840	9.26 13.25	2543 2789	8.83 13.05	2293 2682	8.03 12.63	2115 2565	12.01
100	1829	17 x 6	8	2939	13.63 12.23	2890 3086	13.44 11.61	2997	11.23	2851	10.62	2587	9.81	2385	9.21
10	1829	16 1/2 x 5 BC	10	3146 3238	12.23 12.67	3086	11.61	3053	11.23	2952	11.55	2720	10.63	2365	9.21
1	1829	15 1/2 x 5	10 8	3238 3250	12.67 18.49	3147	18.21	3053	17.93	2952 3108	17.64	3011	17.06	2910	16.47
1	1829 1829	18 1/2 x 6 16 1/2 x 5	10	3542	15.65	3462	15.16	3379	14.64	3290	14.10	3078	13.17	2840	12.26
	1829	16 1/2 x 5 17 x 6	10	3674	16.64	3604	16.33	3533	16.01	3459	15.69	3298	14.98	3107	14.30
	1829	18 1/2 x 6	10	4107	21.79	4070	21.51	4032	21.24	3993	20.95	3910	20.34	3813	19.64
-															

Performance shown is for installation type B: Free inlet, Ducted outlet. Maximum temperature 150°F.

Performance ratings do not include the effects of appurtenances in the air stream.

3450 RPM

		Inlet) " SP		2 " SP	14	" SP	16	" SP	18	B " SP	20	" SP
Model	Wheel	O.D.	CFM	BHP	CFM	BHP	CFM	ВНР	CFM	BHP	CFM	BHP	CFM	BHP
800	8 x 2 1/4	4							T					
900	8 x 2 3/4 8 x 2 3/4	5		-	-	-	-	-		-		-	 	-
900	8 1/2 x 2 3/4	5	1		1		1		1		1		l	1
900	9 x 2 7/8	5			1	1	l		1				1	
900	9 3/4 x 2 7/8	5	ı		ı		l		1	j .	i		1	
900	10 5/8 x 2 7/8	5			-	-	-		-	-		-		\vdash
1000 1000	9 x 2 7/8 9 3/4 x 2 7/8	6	1		l						ı	1 .	1	1 1
1000	10 5/8 x 2 7/8	6	1	1	!		ł			ŀ	1		1	
1000	11 x 2 3/4	6	l		[l		ı	1			1	
1000	11 1/2 x 2 7/8	6			<u> </u>					L				
1200 1200	10 5/8 x 2 7/8 11 x 2 3/4	7	1		l		1		1					
1200	11 1/2 x 2 7/8	7	1		1								l	
1200	12 x 2 7/8	7		 	 	1	 		 	 	†	1	 	
1200	12 1/4 x 2 7/8	7				İ			l	1		İ	1	
1200	13 x 3 1/4 12 1/4 x 2 7/8	7	663	2.13	-			-	\vdash		-			
1400	14 x 3 1/4 BC	6	605	2.08	327	1.44			1		1			
1400	13 x 3 1/4	6	569	1.73	"-"			ŀ	1		1			
1400	14 x 3 1/4	6	783	2.66	578	2.05	1							
1400	14 x 3 1/4 BC	7	661	2.32	362	1.60								
1400	12 1/4 x 2 7/8 12 1/4 x 2 7/8	7 8	 	 	 	 			 		 	 		
1400	14 x 3 1/4 BC	8	683	2.19	289	1.40			1					
1400	13 x 3 1/4	7	635	1.86							L			
1400	13 x 3 1/4	8	542	2.01										
1400 1400	14 x 3 1/4 14 x 3 1/4	7 8	1051 982	3.01 3.03	660 633	2.22 2.30			1		1			
1500	14 x 3 1/4 BC	6	597	2.23	257	1.59			-		 	-	 	
1500	14 x 3 1/4	6	803	2.83	531	2.00	l				ŀ	1	i	
1500	15 1/2 x 5 BC	6	1210	4.05	1012	3.71	728	3.22	395	2.29				
1500 1500	16 1/2 x 4 3/8 BC 16 1/2 x 5 BC	6 6	1361 1401	5.35 5.53	1252 1197	4.99 5.28	894	4.45	725	3.90	249	2.60		
1500	15 1/2 x 5	6	1411	5.53	1296	4.52	958 1105	4.79 4.11	700 594	3.92 2.85	419	2.75		
1500	14 x 3 1/4 BC	8	700	2.50			1100		 	2.00		 		
1500	16 1/2 x 4 3/8	6	1591	6.75	1465	6.16	1358	5.60	1185	5.07	679	3.31		
1500 1500	16 1/2 x 5 14 x 3 1/4 BC	6 10	1634	6.94	1512	6.47	1372	5.79	1181	5.11	708	3.75		
1500	14 x 3 1/4 BC	8	652 1230	2.60 3.40	643	2.37			l		İ			
1500	15 1/2 x 5 BC	8	1704	5.60	1516	5.00	1257	4.19	802	2.89	l			
1500	16 1/2 x 4 3/8 BC	8	1924	7.01	1761	6.47	1513	5.72	1254	4.73				
1500	14 x 3 1/4	10	1155	3.28	628	2.20	4500	F 00	4054	4.00	400			
1500 1500	16 1/2 x 5 BC 15 1/2 x 5	8 8	1929 1982	7.26 7.24	1785 1802	6.72 6.48	1596 1499	5.96 5.52	1251 1201	4.82 4.26	468	3.03		
1500	16 1/2 x 4 3/8	8	2232	9.32	2083	8.61	1906	7.75	1597	6.51	1309	5.24		
1500	15 1/2 x 5 BC	10	1951	6.50	1751	5.74	1356	4.63						
1500 1500	16 1/2 x 5 16 1/2 x 4 3/8 BC	8 10	2259 2150	9.42 7.96	2119 1970	8.71 7.30	1956	7.89	1680	6.82	1374	5.36	1 1	
1500	16 1/2 x 4 5/8 BC	10	2266	8.35	2058	7.57	1733 1734	6.53 6.47	1078 1233	5.15 5.03	260 322	3.26 1.83	1 1	
1500	15 1/2 x 5	10	2252	8.24	2012	7.24	1704	6.13	1193	4.76		1.50		\neg
1500	16 1/2 x 4 3/8	10	2528	10.39	2329	9.50	2111	8.48	1825	7.31	1294	5.73	li	- 1
1500 1800	16 1/2 x 5 14 x 3 1/4 BC	10	2626 591	10.52 2.14	2408 334	9.56 1.60	2185	8.62	1921	7.55	1487	6.05		
1800	14 x 3 1/4	6	761	2.14	552	1.61							1 1	
1800	14 x 3 1/4 BC	8	664	2.30	213	1.54	l					<u> </u>		
1800	14 x 3 1/4 BC	10	609	2.36	4	,								
1800 1800	16 1/2 x 4 3/8 BC 14 x 3 1/4	8	1316 887	5.04 2.75	1203 642	4.64 2.04	893	4.15	737	3.63	499	2.79		- 1
1800	16 1/2 x 4 3/8	6	1463	6.52	1393	6.06	1282	5.62	941	4.83	724	3.68		
1800	14 x 3 1/4	10	1016	3.38	598	2.59		3.00			'-'	2.55		- 1
1800	18 x 4 3/8	6	1711	9.21	1660	8.76	1570	8.27	1440	7.51	1357	6.86	1264	6.35
1800 1800	16 1/2 x 4 3/8 BC	8	1675 1863	6.30 7.96	1538	5.80	1342	5.12	1143	4.41	605	3.07	ΙŢ	
1800	16 1/2 x 4 3/8 16 1/2 x 4 3/8 BC	10	1781	7.96 6.64	1774 1611	7.43 6.16	1606 1422	6.59 5.44	1399 952	5.66 4.47	1190 519	4.89 3.06		- 1
1800	16 1/2 x 4 3/8	10	1973	8.12	1873	7.65	1747	7.10	1544	6.29	1107	5.04	-	
1800	18 x 4 3/8	8	2116	11.41	2048	10.89	1974	10.33	1883	9.66	1756	8.73	1561	7.74
1800 1829	18 x 4 3/8	10 8	2269 1695	11.63 5.85	2181	11.11 5.27	2085	10.53	1972	9.85	1827	9.00	1613	7.93
1829	15 1/2 x 5 BC 16 1/2 x 5 BC	8	1929	7.62	1513 1782	7.10	1205 1576	4.42 6.34	656 1201	3.13 5.23	415	3.83		1
1829	15 1/2 x 5	8	1960	7.63	1738	6.81	1458	5.82	963	4.63	'''	3.00		
1829	16 1/2 x 5	8	2272	9.83	2105	9.28	1890	8.52	1614	7.42	1286	6.07		
1829	15 1/2 x 5 BC	10	1935	6.61	1614	5.69	1110	4.53	542	3.40	47			
1829 1829	17 x 6 16 1/2 x 5 BC	8 10	2434 2247	11.31 8.73	2290 2082	10.56 8.07	2130 1784	9.80 7.09	1952 1240	8.94 5.81	1738 283	7.87 4.22	1168	6.01
1829	15 1/2 x 5	10	2247	8.54	1983	7.52	1341	7.09 5.91	888	5.81 4.68	203	4.22		
1829	18 1/2 x 6	8	2805	15.85	2694	15.20	2573	14.50	2438	13.71	2283	12.81	2102	11.75
1829	16 1/2 x 5	10	2633	11.37	2431	10.47	2183	9.40	1891	8.07	1415	6.21		
1829 1829	17 x 6 18 1/2 x 6	10 10	2898 3676	13.53 18.69	2695 3179	12.56 17.47	2479 2995	11.53 16.50	2224 2843	10.33 15.70	1947 2667	9.06 14.76	1495 2406	7.08 13.32
				cted outlet			as do not in					100	2700	10.02

Performance shown is for installation type B: Free inlet, Ducted outlet. Maximum temperature 150°F.

Performance ratings do not include the effects of appurtenances in the air stream.

PERFORMANCE Belt Drive

DESIGN 38-CPB

CHICAGO BLOWER CORPORATION

Inlet O.D. 4" Maximum BHP = $0.016 (RPM / 1000)^3$ Wheel Diameter Outlet Area 0.072 sq. ft. Tip Speed (FPM) = 2.094 x RPM 1 1/2 " SD 800 BHP CFM RPM RPM RPM BHP RPM BHP BHP BHP BHP BHP RPM RPM FPM BHP 694 999 0.01 1316 0.02 1574 0.04 1798 0.06 90 1250 1463 0.06 1950 0.08 2293 1247 0.03 0.04 1743 0.07 0.09 2279 0.14 2474 0.17 2772 0.23 3021 0.29 3254 0.36 3472 0.43 130 1806 1642 0.06 1926 2082 0.11 170 2361 2045 0.12 2183 0 14 2206 0.16 2400 0.18 2505 0.20 2616 0.22 2894 0.28 3199 0.37 3447 0.45 2956 3317 0.31 0.38 210 2917 2452 0.21 0.24 2692 0.27 0.29 0.33 3126 3472 2990 3094 0.41 3184 0.44 3340 2864 0.34 0.38 250 3498 Maximum BHP = $0.016 (RPM / 1000)^3$ Inlet O.D. 5" Wheel Diameter 9" Outlet Area 0.072 sq. ft. Tip Speed (FPM) = 2.356 x RPM RPM BHP 900 RPM BHP RPM BHP RPM BHP RPM BHP ВНР RPM CFM FPM BHP 110 110 1528 1255 0.02 1580 0.03 1880 0.05 2137 0.06 150 2083 1466 0.04 1749 0.06 1998 0.08 2230 0.09 2445 0.11 2646 0.13 2835 0.14 0.06 0.09 2171 0.11 0.13 2566 0.16 2750 2926 0.20 190 2639 1689 1952 2376 2560 0.18 2731 0.21 2896 0.24 3056 0.27 3210 0.30 3360 0.32 3505 0.35 0.15 3500 270 3750 2184 0.15 2395 0.18 2595 0.22 2767 0.25 2927 0.28 3077 0.31 3222 0.35 3362 0.38 0.42 3415 3138 0.36 0.40 0.44 3545 0.48 310 4306 2449 0.21 2631 0.25 2818 0.29 2986 0.33 3280 2719 0.30 3209 3358 350 4861 0.40 0.52 0.44 3285 0.49 3434 0.54 3581 0.59 3142 3539 Inlet O.D. 6" Maximum BHP = $0.043 (RPM / 1000)^3$ Tip Speed (FPM) = 2.782 x RPM Wheel Diameter 10 5/8" Outlet Area 0.117 sq. ft. RPM BHP 1000 ВНР RPM ВНР RPM ВНР RPM BHP CFM RPM RPM BHP FPM BHP RPM BHP RPM BHP RPM BHP RPM 1453 0.06 1621 0.00 1941 0.12 1375 2280 0.23 0.27 2108 0.20 2441 230 1966 1517 0.09 1730 0.12 1926 0.16 0.30 290 2479 1692 0.14 1880 0.18 2054 0.22 2218 0.26 2374 2523 2665 0.60 2213 0.34 2503 2658 0.39 2639 0 44 2771 0.49 3021 0.60 3257 0.71 3480 0.83 2905 3357 2393 2783 0.62 0.85 0.98 410 3504 2077 0.28 2246 0.34 0.40 2529 0.45 0.51 0.56 3136 0.73 2583 2712 0.58 2832 0.65 2948 0.71 3060 0.77 3276 0.89 1.02 470 4017 2278 0.38 2440 0.45 0.51 3018 0.81 3127 3232 3416 3434 FOC 5043 2707 0.67 2830 0.75 2971 0.83 3096 0.91 3210 0.99 3315 1.07 3508 650 5556 2929 0.86 3051 0.94 3171 1.03 3290 1.12 3403 1.21 1.30 Inlet O.D. 7" Maximum BHP = $0.107 (RPM / 1000)^3$ Tip Speed (FPM) = 3.207 x RPM 12 1/4" Wheel Diameter Outlet Area 0.173 sq. ft. ВНР RPM DDM RPM 1200 FPM RPM RPM BHP RPM BHP RPM ВНР RPM BHP ВНР ВНР CFM BHF BH BHE 0.66 0.79 315 0.92 3339 0.44 2541 2965 1384 0.13 1579 1517 1724 0.26 1890 0.32 2165 0.44 2406 0.57 2628 0.71 2837 0.84 3033 0.98 3218 1.12 3394 1.27 2370 2542 2750 2944 1.05 3128 1.21 3304 1.37 3472 1.54 500 2890 1667 0.27 1854 0.35 2030 0.44 2311 0.59 0.73 0.89 3576 1.85 2689 0.94 1.11 3078 0.56 0.76 2160 2453 590 3410 1852 2001 0.46 3931 2583 0.94 2830 3039 1.37 3224 1.57 3303 680 2058 770 4451 2276 0.79 2374 0.85 2481 0.92 2719 1.14 2961 1.40 3179 1.66 3369 1.90 3540 2.13 3507 ลลด 4971 2500 1.07 2585 2676 1.20 2876 3094 3309 2.25 2728 3243 3441 950 2804 5491 1.42 1.90 3099 1.97 3247 2.13 3411 2.36 3588 2.64 6012 3028 Inlet O.D. 7" Maximum BHP = $0.134 (RPM / 1000)^3$ Wheel Diameter 14" Outlet Area 0.165 sq. ft. Tip Speed (FPM) = $3.665 \times RPM$ SE SP 1400 CFM RPM BHP RPM BHP BHP RPM ВНР RPM ВНЕ BHP RPM BHP RPM BH BHF BHF 2050 0.53 2247 0.64 2426 2594 0.86 2754 0.98 3053 1.24 3328 1.53 122 0.16 1816 272 1441 0.39 1909 0.51 2140 0.69 2355 0.89 2546 1.08 2716 1.25 2869 1.40 3148 1.68 3404 1.98 600 0.30 1684 2974 3270 2.24 2.64 2444 2630 2807 1.78 750 4545 1668 0.50 1898 0.64 2084 0.75 2260 0.88 1.06 1.29 1.53 2599 1.40 2748 2902 1.79 3057 2.05 900 5455 1921 0.81 2112 0.96 2298 2453 1.26 2805 1050 6364 2669 1.93 2932 2.08 3057 3184 3449 2187 2460 2592 1.96 2733 2.15 2882 2.38 3022 2.60 3145 2.79 3259 2.96 3369 3 14 3589 3 56 1200 7273 3580 1350 8182 2737 2.53 2853 2.70 2973 2.89 3102 3.12 3234 3.37 3360 3.62 3475 3.85 4.05 9091 3017 3.61 3226 3.81 3454 1500 1650 10000 3299 3393 3488 3586 Performance shown is for installation type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the air stream.

DESIGN 38-CPB

PERFORMANCE Belt Drive

.500

800

Inlet O.D. 5"
Wheel Diameter 15.5"
Outlet Area 0.307 sq. ft.

Maximum BHP = $0.257 (RPM / 1000)^3$ Tip Speed (FPM) = $4.058 \times RPM$

	ov	1	" SP	2	" SP	3	" SP	4	"SP	6	" SP	8	" SP	10	" SP	12	" SP	14	"SP	16	" SP	11
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	ВНР	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	1
600	1954	1065	0.21	1323	0.32	1539	0.43	1725	0.53	2066	0.76	2371	1.03	2646	1.34	2897	1.68	3128	2.05	3344	2.44	1
700	2280	1163	0.29	1383	0.40	1601	0.56	1781	0.68	2097	0.90	2387	1.18	2654	1.49	2901	1.84	3130	2.21	3345	2.61	
800	2606	1263	0.40	1462	0.52	1657	0.67	1843	0.84	2147	1.11	2418	1.37	2674	1.68	2913	2.03	3138	2.40	3349	2.81	
900	2932	1366	0.52	1556	0.67	1724	0.81	1900	1.00	2208	1.35	2465	1.63	2706	1.93	2935	2.28	3153	2.65	3360	3.06	
1000	3257	1473	0.68	1654	0.85	1809	0.99	1962	1.16	2269	1.59	2525	1.94	2753	2.26	2970	2.59	3179	2.96	3379	3.36	540
1100	3583	1585	0.87	1754	1.05	1903	1.22	2040	1.38	2326	1.82	2588	2.28	2812	2.64	3018	2.99	3217	3.35	3408	3.75	50
1200	3909	1700	1.09	1856	1.29	2002	1.49	2131	1.66	2386	2.07	2646	2.60	2875	3.06	3077	3.45	3267	3.82	3450	4.21	100
1300	4235	1818	1.36	1960	1.56	2101	1.78	2227	1.98	2460	2.37	2703	2.90	2935	3.47	3140	3.95	3326	4.37	3502	4.77	45
1400	4560	1937	1.67	2068	1.87	2202	2.11	2326	2.34	2545	2.75	2765	3.24	2991	3.85	3201	4.44	3389	4.95	3562	5.40	
1500	4886	2058	2.02	2179	2.23	2304	2.48	2425	2.74	2638	3.19	2839	3.65	3049	4.24	3258	4.91	3450	5.53			
1600	5212	2180	2.43	2292	2.64	2409	2.89	2525	3.17	2735	3.68	2924	4.14	3116	4.69	3315	5.37	3508	6.07	1	1	1
1700	5537	2303	2.88	2408	3.10	2517	3.36	2627	3.65	2834	4.22	3016	4.71	3193	5.23	3377	5.87	3564	6.61		1	
1800	5863	2427	3.40	2525	3.62	2627	3.88	2732	4.18	2933	4.80	3112	5.35	3279	5.87	3448	6.46					
1900	6189	2551	3.97	2644	4.20	2739	4.47	2838	4.77	3033	5.43	3210	6.04	3371	6.58	3529	7.15	1			1	600
2000	6515	2676	4.61	2764	4.85	2854	5.11	2947	5.42	3134	6.11	3309	6.78	3467	7.37			[1	
2100	6840	2801	5.31	2885	5.56	2970	5.83	3057	6.14	3236	6.85	3408	7.57	3565	8.22							
2200	7166	2927	6.08	3007	6.34	3087	6.62	3170	6.93	3341	7.65	3508	8.42								1	
2400	7818 I	3179	7.84	3252	8.12	3326	8.41	3400	8.73	3555	9.46	1	l i	1		l l		i			i	100

Wheel Diameter 18"

Inlet O.D. 8" Outlet Area 0.150 sq. ft. Maximum BHP = $0.333 \text{ (RPM } / 1000)^3$ Tip Speed (FPM) = 4.712 x RPM

	OV	2	" SP	4	" SP	6	" SP	8	" \$P	10	" SP	12	"SP	14	" SP	16	" SP	18	" SP	20	" SP	
CFM	FPM	RPM	BHP Ш																			
500	3333	1094	0.25	1465	0.51	1771	0.82	2034	1.13	2268	1.43	2480	1.73	2676	2.03	2859	2.35					
600	4000	1161	0.34	1497	0.58	1791	0.93	2049	1.30	2280	1.68	2490	2.04	2684	2.40	2866	2.76	3036	3.12	3198	3.48	
700	4667	1254	0.48	1544	0.68	1821	1.03	2070	1.44	2296	1.87	2504	2.31	2696	2.75	2876	3.18	3046	3.60	3207	4.01	- 69
800	5333	1365	0.67	1606	0.85	1862	1.16	2100	1.57	2319	2.03	2522	-2.52	2712	3.02	2890	3.53	3058	4.03	3218	4.52	
900	6000	1485	0.90	1686	1.08	1915	1.35	2139	1.74	2350	2.21	2547	2.72	2732	3.26	2908	3.82	3074	4.38	3232	4.95	100
1000	6667	1609	1.18	1784	1.38	1981	1.62	2188	1.96	2389	2.42	2579	2.93	2759	3.50	2930	4.09	3094	4.69	3250	5.32	
1100	7333	1735	1.52	1895	1.75	2063	1.98	2249	2.28	2437	2.68	2619	3.19	2793	3.75	2959	4.36	3119	4.99	3272	5.65	20
1200	8000	1862	1.92	2012	2.19	2159	2.42	2322	2.69	2495	3.05	2667	3.51	2834	4.06	2995	4.66	3150	5.31	3299	5.99	
1300	8667	1989	2.38	2134	2.69	2267	2.95	2409	3.21	2564	3.53	2724	3.94	2883	4.44	3037	5.02	3187	5.67	3333	6.35	
1400	9333	2118	2.91	2258	3.26	2382	3.55	2508	3.82	2645	4.13	2791	4.49	2940	4.94	3087	5.48	3231	6.09	3372	6.77	
1500	10000	2246	3.51	2383	3.91	2501	4.23	2616	4.53	2738	4.83	2869	5.17	3006	5.57	3145	6.05	3283	6.62	3418	7.27	
1600	10667	2376	4.19	2509	4.65	2623	5.00	2731	5.32	2841	5.64	2958	5.97	3082	6.34	3211	6.78	3342	7.29	3471	7.88	100
1700	11333	2506	4.95	2636	5.46	2747	5.86	2849	6.21	2951	6.54	3057	6.88	3169	7.25	3287	7.65	3408	8.11	3531	8.65	
1800	12000	2637	5.80	2764	6.37	2872	6.81	2971	7.20	3066	7.56	3163	7.91	3265	8.27	3372	8.66	3484	9.10	3598	9.58	
1900	12667	2768	6.75	2892	7.37	2998	7.86	3094	8.29	3185	8.67	3276	9.04	3368	9.42	3466	9.81	3568	10.23	l		
2000	13333	2900	7.79	3020	8.46	3125	9.01	3218	9.48	3306	9.90	3392	10.30	3479	10.69	3567	11.08					
2150	14333	3098	9.55	3214	10.31	3315	10.94	3406	11.47	3491	11.95	3572	12.40	l						1	i	
2300	15333	3297	11.57	3409	12.40	3507	13.11	3596	13.73		l i		l		1				l		1	100

Wheel Diameter 18.5"

Inlet O.D. 10" Outlet Area 0.287 sq. ft. Maximum BHP = $0.536 (RPM / 1000)^3$ Tip Speed (FPM) = $4.843 \times RPM$

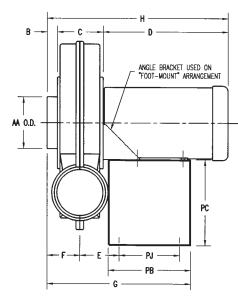
	OV	2	"SP	4	" SP	6	" SP	8	"SP	10	" SP	12	" SP	14	"SP	16	" SP	18	" SP	20	" SP	1000
CFM	FPM	RPM	BHP	RPM	ВНР	1829																
600	2091	1023	0.30	1393	0.56														-			
800	2787	1107	0.45	1429	0.77	1711	1.11	1968	1.51			l			1		İ	i .				
1000	3484	1216	0.69	1511	1.06	1757	1.46	1986	1.87	2206	2.32	2411	l	ļ .				l			1	THE RESERVE OF THE PERSON NAMED IN
1200	4181	1348	1.02	1598	1.42	1840	1.89	2046	2.37	2239	2.85	2428	3.36	2611	3.89	2786	4.47	2953	5.09			100
1400	4878	1455	1.35	1711	1.91	1925	2.40	2131	2.96	2311	3.51	2479	4.07	2644	4.64	2806	5.23	2965	5.84	3118	6.49	A 100
1600	5575	1518	1.58	1843	2.55	2025	3.05	2215	3.64	2397	4.28	2560	4.91	2711	5.54	2857	6.18	3001	6.83	3144	7.50	all Property
1800	6272	1645	2.07	1971	3.26	2151	3.89	2312	4.47	2481	5.14	2646	5.85	2796	6.57	2936	7.28	3068	7.99	3198	8.71	
2000	6969	1790	2.74	2064	3.86	2284	4.89	2433	5.52	2578	6.17	2731	6.91	2881	7.70	3022	8.50	3153	9.29	3277	10.08	Collection of
2200	7666	1942	3.56	2119	4.26	2411	5.96	2565	6.78	2697	7.46	2829	8.18	2968	8.98	3106	9.84	3239	10.72	3363	11.60	O 1888 S S S S S
2400	8362	2098	4.56	2229	5.08	2512	6.92	2696	8.16	2828	8.98	2948	9.72	3069	10.50	3195	11.36	3323	12.28	3448	13.23	SECRETARY.
2600	9059	2255	5.73	2365	6.19	2563	7.48	2819	9.59	2961	10.67	3078	11.53	3189	12.33	3300	13.16	3416	14.07	3533	15.04	775000
2800	9756	2415	7.10	2510	7.53	2647	8.40	2910	10.79	3088	12.46	3211	13.53	3319	14.43	3422	15.30	3525	16.18	l	ĺ	
3000	10453	2575	8.68	2661	9.10	2769	9.79	2959	11.51	3200	14.18	3341	15.65	3452	16.75	3553	17.72					
3200	11150	2736	10.48	2815	10.90	2908	11.52	3039	12.67	3273	15.43	3461	17.78	3583	19.21					l		
3400	11847	2898	12.52	2971	12.95	3053	13.52	3156	14.42	3321	16.33	3555	19.61	1						l	ļ	No. of the last
3600	12544	3061	14.82	3129	15.25	3203	15.80	3290	16.58	3409	17.92											27 47 11 3
3800	13240	3224	17.38	3287	17.82	3356	18.37	3433	19.08	3528	20.13			l .		į						The same of the sa
4000	13937	3387	20.23	3447	20.68	3510	21.22	3580	21.89		í			1		1				ĺ		SHOW SHOW THE REAL PROPERTY.

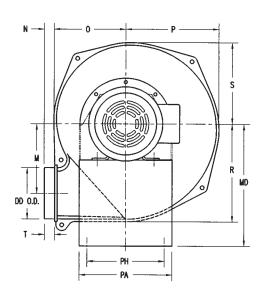
Performance shown is for installation type B: Free inlet, Ducted outlet. Power ratings (BHp) do not include drive losses.

Performance ratings do not include the effects of appurtenances in the air stream.

Maximum temperature 200°F

DIMENSIONS Direct Drive





	MOTOR			GENE	RAL ASSE	MBLY DIN	IENSIONS					В	LOWER H	OUSING D	IMENSION	IS		
MODEL	FRAME	AA	В	С	D	Е	F	G	Н	М	N	0	Р	R	S	Т	DD	MD
800	56	4	1	4	9-3/8	3-3/16	2-15/16	12-3/16	14-1/4	4-3/8	1-1/8	4-5/8	5-5/8	6-1/2	4-7/8	1-1/8	4	8-9/16
900	56 143T–145T	5 5	1 1	4-3/8 4-3/8	9-3/8 11-1/4	3-3/8 4-3/16	3-1/8 3-1/8	13-5/16 13-13/16	14-5/8 16-1/2	5-3/4 5-3/4	1-3/16 1-3/16	6-1/8 6-1/8	7-3/8 7-3/8	7-7/8 7-7/8	6-5/8 6-5/8	1	4 4	10-7/16 11-7/8
1000	56 143T–145T	6 6	1 1	4-1/2 4-1/2	9-3/8 11-1/4	3-7/16 4-1/4	3-3/16 3-3/16	13-7/16 13-15/16	14-3/4 16-5/8	6-3/4 6-3/4	1	6-7/8 6-7/8	9 9	9-7/16 9-7/16	7-13/16 7-13/16		5 5	10-7/16 11-7/8
1200	56 143T–145T 182T–184T	7 7 7	1-3/8	5-3/16 5-3/16 5-5/16	9-3/8 11-1/4 13-15/16	4-1/4 4-9/16 5	3-15/16 3-15/16 3-15/16	14-11/16 15 19-3/16	15-13/16 17-11/16 20-3/8	7-5/16 7-5/16 7-5/16	7/8 7/8 7/8	8 8 8	9-5/8 9-5/8 9-5/8	10-1/2 10-1/2 10-1/2	9-7/16 9-7/16 9-7/16		6 6 6	11-7/8 11-7/8 11-7/8
1400	56 143T–145T 182T–184T	6, 7, 8 6, 7, 8 6, 7, 8		6-5/16 6-5/16 6-7/16	9-3/8 11-1/4 13-15/16	5-1/2 5-1/2 5-1/2	4-1/2 4-1/2 4-1/2	20-1/4 20-1/4 20-1/4	16-15/16 18-13/16 21-1/2	8-1/16 8-1/16 8-1/16	1-1/8 1-1/8 1-1/8	8-11/16 8-11/16 8-11/16	10-1/4 10-1/4 10-1/4	11-5/16 11-5/16 11-5/16	10-1/4 10-1/4 10-1/4		6 6 6	15-3/16
1500	182T-184T 213T-215T 254T-256T	6, 8, 10 6, 8, 10 6, 8, 10		7-5/16 7-5/16 7-5/16	13-15/16 15-9/16 19-19/32	5-15/16 6-1/8 6-1/8	4-15/16 4-15/16 4-15/16	21-1/8 21-5/16 25-9/16	22-3/8 24 28-1/32	8-5/8 8-5/8 8-5/8	1 1 1	9-13/16 9-13/16 9-13/16	11-3/8 11-3/8 11-3/8	12-7/8 12-7/8 12-7/8	10-13/16 10-13/16 10-13/16		8 8 8	
1800	182T-184T 213T-215T 254T-256T	6, 8, 10 6, 8, 10 6, 8, 10		6-5/16 6-5/16 6-5/16	13-15/16 15-9/16 19-19/32	5-7/16 5-5/8 5-5/8	4-7/16 4-7/16 4-7/16	20-1/8 20-5/16 24-9/16	21-3/8 23 27-1/32	10-1/2 10-1/2 10-1/2	15/16 15/16 15/16	10-1/2 10-1/2 10-1/2	12-11/16 12-11/16 12-11/16	13-3/4 13-3/4 13-3/4	11-3/8 11-3/8 11-3/8		6 6 6	15-3/16
1829	182T-184T 213T-215T 254T-256T 284T-286T	8, 10 8, 10 8, 10 8, 10	1-3/8	8-1/8 8-1/8 8-1/8 8-1/8	13-15/16 15-9/16 19-19/32 21-13/16	6-1/2 6-1/2 6-1/2 6-1/2	5-11/32 5-11/32 5-11/32 5-11/32	24-3/32 24-3/32 29-3/32 29-3/32	23-3/16 24-13/16 28-27/32 31-1/16	9-27/32 9-27/32 9-27/32 9-27/32	7/8 7/8 7/8 7/8	11 11 11 11	12-7/8 12-7/8 12-7/8 12-7/8	14-3/32 14-3/32 14-3/32 14-3/32	11-13/16 11-13/16 11-13/16 11-13/16	1	8 8 8	18 18 18 18

	PE	DESTAL I	DIMENSIO	NS		APPROX	VER	ΓΙCAL
MODEL	PA	PB	PC	PH	PJ	SHIP WEIGHT	KK	ММ
800	7	7-1/8	5-1/16	5-1/2	5	20	1-5/16	3-1/4
900	7 9	7-7/8 8	6-15/16 8-3/8	5-1/2 7-1/2	5-3/4 5	25 30	1-5/16 1-5/16	3-7/16 3-7/16
1000	7 9	7-7/8 8	6-15/16 8-3/8	5-1/2 7-1/2	5-3/4 5	32 35	1-5/16 1-5/16	3-1/2 3-1/2
1200	9 9 12	8 8 11-3/4	8-3/8 8-3/8 7-3/8	7-1/2 7-1/2 9-7/8	5 5 8-3/4	45 45 56	1-11/16	4-1/4 4-1/4 4-1/4
1400	12 12 12	11-3/4 11-3/4 11-3/4	11-11/16 11-11/16 10-11/16	^	8-3/4 8-3/4 8-3/4	75 75 75		4-13/16 4-13/16 4-13/16
1500	12 12 16-1/2	11-3/4 11-3/4 16	10-11/16 9-15/16 8-15/16		8-3/4 8-3/4 13	85 92 105		5-1/4 5-1/4 5-1/4
1800	12 12 16-1/2	11-3/4 11-3/4 16	10-11/16 9-15/16 8-15/16	9-7/8	8-3/4 8-3/4 13	90 95 110		4-3/4 4-3/4 4-3/4
1829	16-1/2 16-1/2 16-1/2 16-1/2	13-3/4 13-3/4 18-3/4 18-3/4	13-1/2 12-3/4 11-3/4 11	12-1/2 12-1/2 12-1/2 12-1/2	10-3/4 10-3/4 15-3/4 15-3/4	130 130 135 130	1-11/16	5-21/32 5-21/32 5-21/32 5-21/32

NOTES:

All motors available with C-face flange.

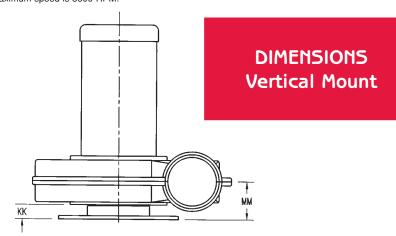
Shipping weights based on heaviest combination in series.

Dimensions are shown in inches.

Do not use for construction unless certified.

Dimensions shown are for BH discharge only and may vary for other discharges

Maximum speed is 3600 RPM.



AA O.D. PH PB PB PB PA PA

DIMENSIONS Belt Drive

	MOTOR				GENE	RAL ASSE	MBLY DIN	IENSIONS	;			
MODEL	FRAME	AA	В	3	С	D	Е	F	G	Н	I	ML
800	56	4	1		3-15/16	16-1/8	5-3/8	2-15/16	21-1/16	23-3/16	2-1/8	15
900	56	5	1		4-5/16	16-1/8	5-13/16	3-1/8	21-7/16	23-9/16	2-1/8	15
1000	56 143T–145T	6 6	1		4-7/16 4-7/16	16-1/8 16-1/4	5-7/8 5-7/8	3-3/16 3-3/16	21-9/16 21-9/16	23-11/16 24-1/16	2-1/8 2-1/8	15 15
1200	56 143T–145T 182T–184T	7 7 7	1-3	8/8 \	5-1/4 5-1/4 5-1/4	16-1/16 16-1/16 16-1/16	6-1/4 6-1/4 6-1/4	3-15/16 3-15/16 3-15/16	22-11/16 22-11/16 25-11/16	24-13/16 25-3/16 28-11/16	2-1/8 2-1/2 3	15 15 19
1400	56 143T–145T 182T–184T 213T–215T	6, 7, 8 6, 7, 8 6, 7, 8 6, 7, 8			6-3/8 6-3/8 6-3/8 6-3/8	16 16 19 19	6-3/4 6-3/4 6-3/4 6-3/4	4-1/2 4-1/2 4-1/2 4-1/2	23-3/4 23-3/4 26-3/4 26-3/4	25-7/8 26-1/4 29-3/4 30-3/8	2-1/8 2-1/2 3 3-5/8	19 19 19 19
1500	182T-184T 213T-215T 254T-256T	6, 8, 10 6, 8, 10 6, 8, 10			7-1/4 7-1/4 7-1/4	19 19 25-1/2	7-3/8 7-3/8 7-3/8	4-15/16 4-15/16 4-15/16	27-5/8 27-5/8 34-1/8	30-5/8 31-1/4 38-3/8	3 3-5/8 4-1/4	19 19 26
1800	182T–184T 213T–215T 254T–256T	6, 8, 10 6, 8, 10 6, 8, 10			6-1/4 6-1/4 6-1/4	19-3/16 19-3/16 25-11/16	6-7/8 6-7/8 6-7/8	4-7/16 4-7/16 4-7/16	26-13/16 26-13/16 33-5/16	29-13/16 30-7/16 37-9/16	3 3-5/8 4-1/4	19 19 26
1829	182T-184T 213T-215T 254T-256T	8, 10 8, 10 8, 10	1-3	8/8	8-1/16 8-1/16 8-1/16	19-5/32 19-5/32 25-21/32	7-3/4 7-3/4 7-3/4	5-11/32 5-11/32 5-11/32	28-19/32 28-19/32 35-3/32	31-19/32 31-7/32 39-11/32	3 3-5/8 4-1/4	19 19 26

NOTES:

Shipping weights (less motor)based on heaviest combination in series.

Unit shown is right side mount. Left side mount available.

(ML) Max. motor length.

Dimensions are shown in inches.

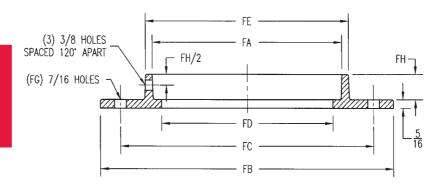
Do not use for construction unless certified.

Dimensions shown are for BH discharge only and may vary for other discharges.

Maximum speed is 3600 RPM.

	MOTOR			GENEI	RAL ASSE	MBLY DIN	IENSIONS						PE	DESTAL D	IMENSION	NS	APPROX. SHIP
MODEL	FRAME	М	N	0	Р	R	S	Т	DD	BD	CD	+/- CD	PA	РВ	PH	PJ	WEIGHT
800	56	4-3/8	1-1/8	4-5/8	5-5/8	6-1/2	4-7/8	1-1/8	4	14	11-1/2	1-1/16	13-3/8	15	11-3/8	10	65
900	56	5-3/4	1-3/16	6-1/8	7-3/8	7-7/8	6-5/8	1	4	14	11-1/2	1-1/16	13-3/8	15	11-3/8	10	70
1000	56 143T–145T	6-3/4 6-3/4	1	6-1/8 6-7/8	9	9-7/16 9-7/16	7-13/16 7-13/16	^	5 5	14 14	11-1/2 11-1/2	1-1/16 1-1/16	13-3/8 13-3/8	15 15	11-3/8 11-3/8	10 10	75 80
1200	56 143T–145T 182T–184T	7-5/16 7-5/16 7-5/16	7/8 7/8 7/8	8 8 8	9-5/8 9-5/8 9-5/8	10-1/2 10-1/2 10-1/2	9-7/16 9-7/16 9-7/16		6 6 6	14 14 18	11-7/8 11-7/8 14-1/2	1-1/32 1-1/32 1-7/32	13-3/8 13-3/8 18	15 15 18	11-3/8 11-3/8 16	10 10 13	95 95 125
1400	56 143T–145T 182T–184T 213T–215T	8-1/16 8-1/16 8-1/16 8-1/16	1-1/8 1-1/8 1-1/8 1-1/8	8-11/16 8-11/16 8-11/16 8-11/16	10-1/4 10-1/4 10-1/4 10-1/4	11-5/16 11-5/16 11-5/16 11-5/16	10-1/4 10-1/4 10-1/4 10-1/4		6 6 6	18 18 18 18	11-7/8 11-7/8 14-1/2 15-1/4	1-1/32 1-1/32 1-1/8 1-7/32	18 18 18 18	18 18 18 18	16 16 16 16	13 13 13 13	105 105 135 135
1500	182T-184T 213T-215T 254T-256T	8-5/8 8-5/8 8-5/8	1 1 1	9-13/16 9-13/16 9-13/16	11-3/8 11-3/8 11-3/8	12-7/8 12-7/8 12-7/8	10-13/16 10-13/16 10-13/16		8 8 8	18 18 23	14-9/16 15-1/4 17-15/16	1-7/32 1-1/4 1-7/16	18 18 19-1/4	18 18 24-1/2	16 16 17-1/4	13 13 19-1/2	155 155 200
1800	182T-184T 213T-215T 254T-256T	10-1/2 10-1/2 10-1/2	15/16 15/16 15/16	10-1/2 10-1/2 10-1/2	12-11/16 12-11/16 12-11/16	13-3/4 13-3/4 13-3/4	11-3/8 11-3/8 11-3/8		6 6 6	18 18 23	14-15/16 15-5/8 18-15/16	1-1/16 1-1/4 1-7/16	18 18 19-1/4	18 18 24-1/2	16 16 17-1/4	13 13 19-1/2	165 165 215
1829	182T–184T 213T–215T 254T–256T	9-27/32 9-27/32 9-27/32	7/8 7/8 7/8	11 11 11	12-7/8 12-7/8 12-7/8	14-3/32 14-3/32 14-3/32	11-13/16 11-13/16 11-13/16	1	8 8 8	18 18 23	14-15/16 15-5/8 18-5/16	1-1/16 1-3/16 1-7/16	18 18 19-1/4	18 18 24-1/2	16 16 17-1/4	13 13 19-1/2	175 180 225

DIMENSIONS Inlet/Outlet Flange

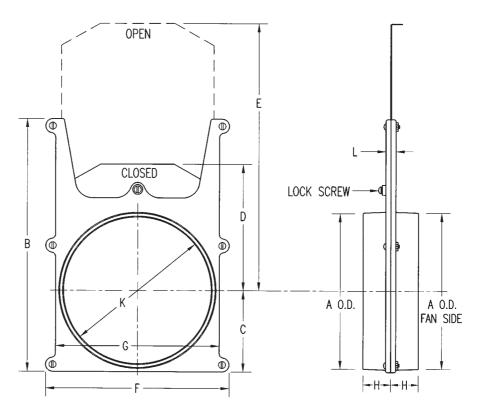


AA r DD	FA	FB*	FC*	FD	FE	NO. of FG HOLES	FH
4	4-1/16	9	7-1/2	3-11/16	4-9/16	4	15/16
5	5-1/16	11	8-1/2	4-9/16	5-9/16	4	15/16
6	6-1/16	11	9-1/2	5-1/2	6-9/16	4	1-1/16
7	7-1/16	11	9-1/2	6-7/16	7-5/8	8	15/16
8	8-1/16	13-1/2	11-3/4	7-1/2	8-5/8	8	1
10	10-1/16	16	14-1/4	9-11/16	10-9/16	8	1

NOTES: * Meets ANSI-125 lb. flange dimensions. FA fits over the Inlet (AA) or Discharge (DD)

Dimensions are shown in inches.

Do not use for construction unless certified.



SIZE	A	В	С	D	Е	F	G	н	К	L	WGT.
4	3-7/8	6-3/4	2-1/4	3-1/2	6-3/4	5	4-1/8	1-1/8	3-1/4	5/16	1
5	4-15/16	8-5/8	2-3/4	5	9-1/4	6	5-3/8	1-1/8	4-5/8	3/8	1-3/4
6	5-15/16	10-1/4	3-1/4	5-1/4	10	7-1/4	6-1/2	1-1/2	5-3/8	3/8	2-1/4
7	6-7/8	11-1/4	3-3/4	5-3/4	11-3/4	8	7-1/4	1-1/4	6-3/4	3/8	2-1/2
8	7-15/16	12-5/8	4-1/4	6-3/4	14	9-5/8	8-5/8	1-3/4	7-1/2	7-1/6	3-3/4
10	9-15/16	17-7/8	5-3/4	7-5/8	17	11-3/4	10-1/2	2-1/8	9-1/2	9/16	7-3/4

Dimensions are shown in inches. Do not use for construction unless certified.

DIMENSIONS Full Cut-Off Damper

ENGINEERING SPECIFICATIONS Centrifugal CPB Fans

GENERAL:

Provide a high performance, low maintenance, centrifugal fan with radial wheel. Fan shall be air performance tested based on tests and procedures in accordance with AMCA 211. Fans must be manufactured and assembled in the U.S.A.

Acceptable vendors: Chicago Blower Corporation

PERFORMANCE:

Performance shall include steep pressure and overloading horsepower characteristics. Mechanical efficiency shall be no less than 60%. System static pressure changes of 30% shall result in no more than 10% CFM reduction.

HOUSING:

Housing shall be cast with 319 cast aluminum, having a 3/16" minimum wall thickness. Housing should consist of two halves which are bolted and sealed. Inlets and outlets shall be round of nominal diameters for slip fit of ductwork, flexible connector, or hose. Housings include a Teflon shaft seal. All housing sizes shall be reversible for clockwise or counterclockwise and capable of being rotated to all eight standard discharge positions.

WHEEL:

Wheels with tip speeds to 13,000 feet per minute shall be 319 cast aluminum. Wheels with tip speeds over 13,000 feet per minute shall be 356 cast aluminum with T6 heat treatment. All wheels shall have an integral straight bore hub keyed with set screws for mounting. Wheels to be statically and dynamically balanced to G 6.3 standards in accordance with ISO 1940 and ANSI S2.19 specifications. The addition of weights is not allowed, thus balancing shall be accomplished by material removal only.

MOUNTING:

Motorbase-Fan shall be mounted with heavy gauge steel pedestal.

FACTORY MOUNTED MOTORS:

Motors to be factory mounted. Unit to be tested at running speed for vibration and balance. Filtered vibration readings, taken at bearings, not to exceed .22 inches per second.

ACCESSORIES:

- Flanged Inlet/Outlet 319 Cast Aluminum with Punched Holes
- 1/2" NPT Housing Drain with Plug
- Inlet/Outlet Screen
- RIS Isolators
- Inlet Filter
- Slide Gate Damper
- Belt Guard
- Shaft and Bearing Guard

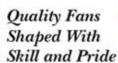




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