BULLETIN CAPB-101



CAST ALUMINUM PRESSURE BLOWER



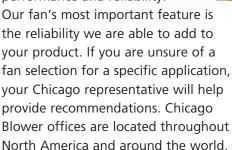
CHICAGO BLOWER CORPORATION

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.

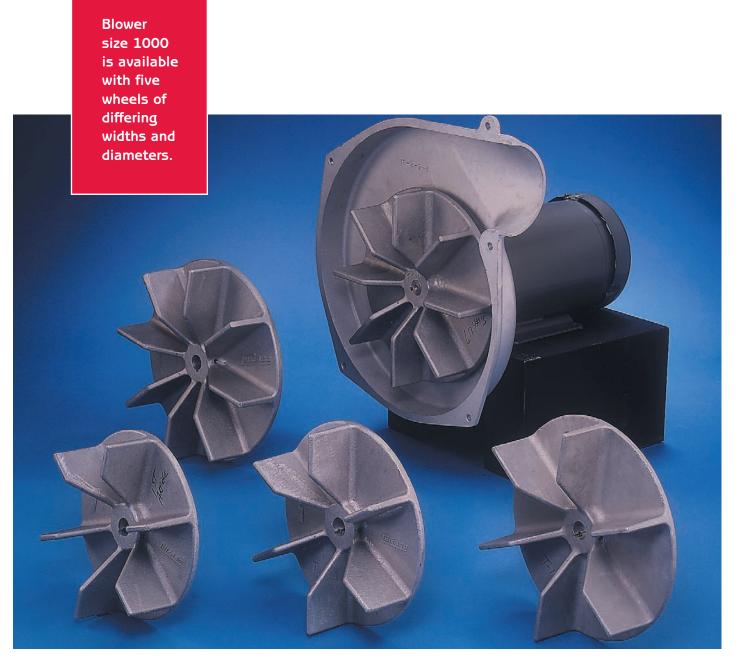
Chicago Blower's new series of cast aluminum pressure blowers fills the diverse needs of high pressure applications from combustion air to fume and dust control to food processing.



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.







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.

With all these possible selections, the user gains the efficiency and maintenancefree 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



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





Eight-

bladed

radial

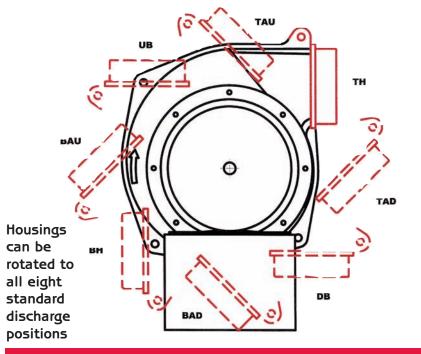


Back-

ward

curved

wheel

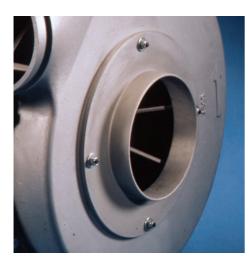


HOUSINGS

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.





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.



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.



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.

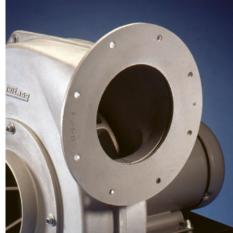


INLET/OUTLET SCREENS

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 X 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.

Temperature and Altitude Correction

AIR		ALTIT	UDE (feet) with BAR	OMETRIC	PRESSUR	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 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 achieved by different blower sizes by varying the wheel widths and diameters. Often installation requirements will determine the blower size.

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.





CHICAGO BLOWER CORPORATION

Direct Drive

PERFORMANCE

		4	1	1 1	" SP	2	" SP	3	* SP	1 4	" SP	6	" SP	8	" SP
3450	Model	Wheel	Inlet	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
RPM	800	8 x 2 1/4	4	269	0.43	238 246	0.39 0.53	157 170	0.34						
••••	800 900	8 x 2 3/4 8 x 2 3/4	4	276 353	0.57	240	0.33	237	0.45	144	0.21				
	900	8 1/2 x 2 3/4	5	392	0.49	344	0.45	293	0.40	225	0.33				1
and the second second	900	9 x 2 7/8	5	436	0.59	393	0.55	342	0.48	290	0.43		0.00		1
1251 2	900 900	9 3/4 x 2 7/8 10 5/8 x 2 7/8	5	491 557	0.73	452 521	0.69	413 487	0.64	369 454	0.57 0.81	219 366	0.38 0.66		
	1000	9 x 2 7/8	6	594	0.95	528	0.85	440	0.73	343	0.50				
San Street	1000	9 3/4 x 2 7/8	6	685	1.18	625	1.10	558	1.00	469	0.90	205	0.58		1
101 2 12 13	1000	10 5/8 x 2 7/8	6	787	1.43	730	1.36	665	1.27	601	1.20	456 489	0.98		1
and and	1000 1000	11 x 2 3/4 11 1/2 x 2 7/8	6	811 857	1.57 1.94	753 798	1.47 1.85	690 741	1.39	625 681	1.32	551	1.16 1.40	368	1.03
12220 120	1200	10 5/8 x 2 7/8	7	964	1.82	892	1.72	815	1.61	726	1.47	473	1.10		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1200	11 x 2 3/4	7	1063	2.14	1008	2.03	929	1.90	772	1.71	529	1.26		
G	1200	<u>11 1/2 x 2 7/8</u> 12 x 2 7/8	7	1131 1198	2.57	1075 1152	2.39	1005 1100	2.22	896 1029	2.05	639 759	1.67	392 552	1.24
Carlos and	1200	12 1/4 x 2 7/8	7	1226	3.00	1180	2.83	1128	2.64	1061	2.49	821	2.10	613	1.73
the second	1200	13 x 3 1/4	7	1342	3.71	1289	3.50	1242	3.31	1202	3.15	1125	2.82	870	2.50
Cont Toto and	1400	12 1/4 x 2 7/8	6 6	1087 1155	2.70 3.17	1050 1114	2.59 3.10	1006 1069	2.46 3.02	933 1018	2.36 2.95	702 892	2.00 2.75	527 755	1.65 2.44
PSRA SP	1400 1400	14 x 3 1/4 BC 13 x 3 1/4	6	1203	3.20	1173	3.08	1139	2.94	1085	2.77	878	2.45	737	2.14
and the second	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
EATENE	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
and the second	1400 1400	12 1/4 x 2 7/8 12 1/4 x 2 7/8	7 8	1387 1439	3.26	1318 1356	3.05 3.18	1241	2.83 2.98	1144 1148	2.58 2.75	816 807	2.09	580 480	1.65 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
11	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
1.1.1.1	1400 1400	13 x 3 1/4 14 x 3 1/4	8	1639 1727	4.29 5.20	1557 1678	4.05 4.99	1462 1626	3.77 4.77	1368 1568	3.48 4.53	1205 1414	3.07 4.01	833 1259	2.53 3.49
100 miles 1 1	1400	14 x 3 1/4 14 x 3 1/4	8	1820	5.36	1752	5.15	1679	4.92	1596	4.67	1437	4.12	1277	3.53
1. 1. 1.	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
100 100 1	1500	14 x 3 1/4	6 6	1477 1582	4.46 5.15	1436 1552	4.28 5.14	1392 1517	4.09 5.11	1343 1482	3.90 5.03	1202 1413	3.70 4.76	994 1333	3.39 4.41
A COLOR	 	15 1/2 x 5 BC 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
	1500	16 1/2 x 5 BC	6	1713	6.28	1705	6.21	1697	6.14	1689	6.06	1646	5.89	1552	5.71
	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	6.05 3.53	1504 989	5.62 3.02
Contract 1	1500 1500	14 x 3 1/4 BC 16 1/2 x 4 3/8	8	1857 1901	4.59 8.35	1878	8.21	1856	8.07	1832	7.92	1779	7.59	1711	7.21
appendiate	1500	16 1/2 x 5	6	1902	8.60	1877	8.44	1852	8.28	1827	8.11	1773	7.77	1712	7.37
12 10 10	1500	14 x 3 1/4 BC	10	2101	5.20	1992	4.95 6.02	1874 1984	4.66 5.87	1742 1908	4.33 5.58	· 1462 1746	3.75 4.92	1083 1483	3.13 4.01
and the second	1500 1500	14 x 3 1/4 15 1/2 x 5 BC	8 8	2155 2355	6.18 7.77	2066 2326	7.49	2270	7.26	2201	7.03	2042	6.58	1403	6.12
1 - 10	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
	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
and the	1500 1500	16 1/2 x 5 BC	8	2609 2612	9.05 10.10	2577 2558	8.84 9.80	2536 2501	8.57 9.50	2457 2442	8.47 9.18	2269 2304	8.03 8.57	2085 2142	7.67 7.91
10 march	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
2.4.6	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
Part in the	1500 1500	16 1/2 x 5 16 1/2 x 4 3/8 BC	8 10	2831 2940	11.92 10.23	2774 2873	11.69 10.06	2717 2802	11.45 9.89	2658 2727	11.20 9.70	2535 2547	10.68 9.22	2399 2332	10.07 8.62
0.2	1500	16 1/2 x 4 5/8 BC	10	3009	10.25	2941	10.45	2858	10.12	2763	9.74	2575	9.23	2414	8.81
	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
9	1500 1500	16 1/2 x 4 3/8 16 1/2 x 5	10 10	3410 3445	14.66 14.27	3336 3370	14.22 13.90	3260 3293	13.77 13.53	3179 3213	13.28 13.14	2985 3039	12.30 12.33	2742 2839	11.33 11.45
	1800	14 x 3 1/4 BC	6	1150	3.28	1113	3.18	1071	3.06	1017	2.99	880	2.78	748	2.51
Color Color	1800	14 x 3 1/4	6	1308	4.22	1261	4.07	1213	3.92	1164	3.76	1054	3.40	919	2.71
1.1.1.1.1.1	1800	14 x 3 1/4 BC 14 x 3 1/4 BC	8 10	1429 1500	3.76 3.89	1372 1437	3.65 3.75	1322 1381	3.56 3.62	1279 1328	3.42 3.48	1184 1147	3.09 3.16	864 832	2.72
1000	1800 1800	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
1251 22	1800	14 x 3 1/4	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 14 x 3 1/4	6 10	1673 1779	8.03 5.96	1653 1713	7.88 5.63	1633 1645	7.72 5.30	1612 1575	7.56 5.06	1568 1434	7.24 4.58	1520 1294	6.89 3.91
1 5 1 1 × 22	1800 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
Stan Park	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
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	1800 1800	16 1/2 x 4 3/8 16 1/2 x 4 3/8 BC	8 10 ·	2214 2221	9.92 8.35	2171 2163	9.70 8.17	2129 2108	9.48 8.00	2088 2057	9.27 7.84	2011 1965	8.85 7.51	1938 1880	8.42 7.10
0110010	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
1000	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
	1800	18 x 4 3/8 15 1/2 x 5 BC	10 8	2682 2392	13.86 8.20	2631 2354	13.61 7.86	2580 2284	13.36 7.57	2531 2197	13.12 7.29	2439 2011	12.66 6.78	2353 1845	12.14 6.31
and the state of the	1829 1829	16 1/2 x 5 BC	8	2592	9.57	2565	9.24	2530	9.12	2430	8.77	2250	8.39	2077	8.02
Carlos Contra	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
a starter	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
and the second	1829 1829	15 1/2 x 5 BC 17 x 6	10 8	2895 2939	10.12 13.63	2813 2890	9.67 13.44	2685 2840	9.26 13.25	2543 2789	8.83 13.05	2293 2682	8.03 12.63	2115 2565	7.32 12.01
Car Ta	1829	16 1/2 x 5 BC	10	3146	12.23	3086	11.61	2997	11.23	2851	10.62	2587	9.81	2385	9.21
	1829	15 1/2 x 5	10	3238	12.67	3147	12.31	3053	11.94	2952	11.55	2720	10.63	2471	9.59
Stand Strate	1829 1829	18 1/2 x 6 16 1/2 x 5	8 10	3250 3542	18.49 15.65	3203 3462	18.21 15.16	3156 3379	17.93 14.64	3108 3290	17.64 14.10	3011 3078	17.06	2910 2840	16.47 12.26
and the second second	1829	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
And a state of the	C. S. C.	Borform	ance shown	in for instal	lation tune	D. Free inlet	Dustad	whet D		ratings do n	ما المعالمة	ha affaata a		nees in the	

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.

CHICAGO BLOWER CORPORATION

DESIGN 38-CPB

PERFORMANCE Direct Drive

	T T	Inlet		0 " SP		2 " SP		4 " SP		8 " SP		8 " SP	2	0 " SP	2450
Model	Wheel	0.D.	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	3450
800 800	8 x 2 1/4 8 x 2 3/4			1			1						1		RPM
900	8 x 2 3/4	5					1				+				
900	8 1/2 x 2 3/4	5					1	1	1						
900 900	9 x 2 7/8 9 3/4 x 2 7/8	5	1				1		1						ALC: NO.
900	10 5/8 x 2 7/8	5													
1000	9 x 2 7/8	6	1						1			1			a Charles
1000	9 3/4 x 2 7/8	6											1		12-2012
1000 1000	10 5/8 x 2 7/8 11 x 2 3/4	6	1				1	1	1						5 62 5 65
1000	11 1/2 x 2 7/8	6													a all care
1200	10 5/8 x 2 7/8	7				1	1						1		8-120
1200	11 x 2 3/4	7											1		1.1.1.1.2.
1200 1200	11 1/2 x 2 7/8 12 x 2 7/8	7	<u> </u>		+		+		+			+		+	1 2 2 2 3
1200	12 1/4 x 2 7/8	7			1	1			1				1		the star
1200	13 x 3 1/4	7	663	2.13											and the second
1400	12 1/4 x 2 7/8	6	605	0.00	007										and and and and
1400 1400	14 x 3 1/4 BC 13 x 3 1/4	6	605 569	2.08	327	1.44									a the new state
1400	14 x 3 1/4	6	783	2.66	578	2.05	1						1		1223
1400	14 x 3 1/4 BC	7	661	2.32	362	1.60	1			1					Charles .
1400	12 1/4 x 2 7/8 12 1/4 x 2 7/8	7 8	 	l			 		<u> </u>		ļ			<u> </u>	and the second
1400	14 x 3 1/4 BC	8	683	2.19	289	1.40								1	2- 20
1400	13 x 3 1/4	7	635	1.86											and the state
1400	13 x 3 1/4	8	542	2.01			T			1				1	A 24 74
1400 1400	14 x 3 1/4 14 x 3 1/4	7	1051 982	3.01	660 633	2.22 2.30						1			the star
1500	14 x 3 1/4 BC	6	597	2.23	257	1.59	<u> </u>					+	+	+	and the second
1500	14 x 3 1/4	6	803	2.83	531	2.00						1	1		and a set
1500	15 1/2 x 5 BC	6	1210	4.05	1012	3.71	728	3.22	395	2.29					a the second state
1500 1500	16 1/2 x 4 3/8 BC 16 1/2 x 5 BC	6	1361 1401	5.35 5.53	1252 1197	4.99 5.28	894 958	4.45 4.79	725 700	3.90 3.92	249 419	2.60 2.75			The set of
1500	15 1/2 x 5	6	1411	5.11	1296	4.52	1105	4.11	594	2.85	413	2.75			Stand Street 1
1500	14 x 3 1/4 BC	8	700	2.50				1	1	1		1			100-120
1500 1500	16 1/2 x 4 3/8 16 1/2 x 5	6	1591 1634	6.75 6.94	1465 1512	6.16 6.47	1358	5.60 5.79	1185	5.07	679	3.31			and the state
1500	14 x 3 1/4 BC	10	652	2.60	1512	0.4/	1372	5.79	1181	5.11	708	3.75	<u> </u>		Charles and
1500	14 x 3 1/4	8	1230	3.40	643	2.37					1		1		120 1
1500	15 1/2 x 5 BC	8	1704	5.60	1516	5.00	1257	4.19	802	2.89					all all and
1500 1500	16 1/2 x 4 3/8 BC 14 x 3 1/4	8	1924 1155	7.01 3.28	1761 628	6.47 2.20	1513	5.72	1254	4.73			1	1	1000
1500	16 1/2 x 5 BC	8	1929	7.26	1785	6.72	1596	5.96	1251	4.82	468	3.03			and the second
1500	15 1/2 x 5	8	1982	7.24	1802	6.48	1499	5.52	1201	4.26					10000000
1500	16 1/2 x 4 3/8	8	2232	9.32	2083	8.61	1906	7.75	1597	6.51	1309	5.24	1		Walk and I have
1500 1500	15 1/2 x 5 BC 16 1/2 x 5	10 8	1951 2259	6.50 9.42	1751 2119	<u>5.74</u> 8.71	1356 1956	4.63	1680	6.82	1374	5.36			and a starter
1500	16 1/2 x 4 3/8 BC	10	2150	7.96	1970	7.30	1733	6.53	1078	5.15	260	3.26			21510,88
1500	16 1/2 x 5 BC	10	2266	8.35	2058	7.57	1734	6.47	1233	5.03	322	1.83			and the second
1500 1500	15 1/2 x 5 16 1/2 x 4 3/8	10 10	2252 2528	8.24 10.39	2012 2329	7.24 9.50	1704 2111	6.13 8.48	1193 1825	4.76 7.31	1294	5 72			Mar All
1500	16 1/2 x 5	10	2626	10.53	2408	9.56	2185	8.62	1921	7.55	1487	5.73 6.05			
1800	14 x 3 1/4 BC	6	591	2.14	334	1.60						1			Frank war
1800	14 x 3 1/4	6	761	2.25	552	1.61				1		1	1.		Saller 2 9
1800 1800	14 x 3 1/4 BC 14 x 3 1/4 BC	<u>8</u> 10	664 609	2.30	213	1.54	 	<u> </u>					l		a an an-
1800	16 1/2 x 4 3/8 BC	6	1316	5.04	1203	4.64	893	4.15	737	3.63	499	2.79			State My
1800	14 x 3 1/4	8	887	2.75	642	2.04									
1800 1800	16 1/2 x 4 3/8 14 x 3 1/4	6 10	1463 1016	6.52 3.38	1393 598	6.06 2.59	1282	5.62	941	4.83	724	3.68			100000000
1800	18 x 4 3/8	6	1711	9.21	1660	2.59 8.76	1570	8.27	1440	7.51	1357	6.86	1264	6.35	224 1000
1800	16 1/2 x 4 3/8 BC	8	1675	6.30	1538	5.80	1342	5.12	1143	4.41	605	3.07	1204	0.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1800	16 1/2 x 4 3/8	8	1863	7.96	1774	7.43	1606	6.59	1399	5.66	1190	4.89			
1800 1800	16 1/2 x 4 3/8 BC 16 1/2 x 4 3/8	10	1781 1973	6.64 8.12	1611 1873	6.16 7.65	1422	5.44	952 1544	4.47 6.29	519 1107	3.06			327 23.00
1800	18 x 4 3/8	8	2116	0.12 11.41	2048	10.89	1974	10.33	1883	9.66	1756	8.73	1561	7.74	the second
1800	18 x 4 3/8	10	2269	11.63	2181	11.11	2085	10.53	1972	9.85	1827	9.00	1613	7.93	and the state
1829	15 1/2 x 5 BC	8	1695	5.85	1513	5.27	1205	4.42	656	3.13					State Call
1829 1829	16 1/2 x 5 BC 15 1/2 x 5	8 8	1929 1960	7.62 7.63	1782 1738	7.10 6.81	1576 1458	6.34 5.82	1201 963	5.23 4.63	415	3.83			States A
1829	16 1/2 x 5	8	2272	9.83	2105	9.28	1458	8.52	963 1614	7.42	1286	6.07	l		and the second
1829	15 1/2 x 5 BC	10	1935	6.61	1614	5.69	1110	4.53	542	3.40					and the second
1829	17 x 6	8	2434	11.31	2290	10.56	2130	9.80	1952	8.94	1738	7.87	1168	6.01	State of the
1829 1829	16 1/2 x 5 BC 15 1/2 x 5	10 10	2247 2241	8.73 8.54	2082 1983	8.07 7.52	1784 1341	7.09 5.91	1240 888	5.81 4.68	283	4.22			and the
1829	18 1/2 x 6	8	2805	15.85	2694	15.20	2573	14.50	2438	4.00	2283	12.81	2102	11.75	5 Part - ver
1829	16 1/2 x 5	10	2633	11.37	2431	10.47	2183	9.40	1891	8.07	1415	6.21			1 2 67
1829 1829	17 x 6	10 10	2898	13.53	2695	12.56	2479	11.53	2224	10.33	1947	9.06	1495	7.08	Star Alle
1029	18 1/2 x 6	10	3676	18.69	3179	17.47	2995	16.50	2843	15.70	2667	14.76	2406	13.32	and the states

Performance shown is for installation type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the air stream. Maximum temperature 150°F.

CHICAGO BLOWER CORPORATION

PERFORMANCE Belt Drive

												Inlet C).D. 4	"			Maxim	um Bŀ	IP = 0.	016 (R	PM / 1	1000)°
						Whee	l Diam	eter	8"			Outlet	Area	0.072 s	sq. ft.		т	ip Spe	ed (FP	°M) = 2	2.094 x	RPM
800		0V	1/4	" SP	1/2	" SP	3/4	" SP	1	" SP	1 1/4	" SP	1 1/2	" SP	2	" SP	2 1/2	"SP	3	" SP	3 1/2	"SP
000	CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	50	694	999	0.01	1316	0.02	1574	0.04	1798	0.06												
	90	1250	1247	0.03	1463	0.04	1743	0.06	1950	0.08	2127	0.10	2293	0.12	2595	0.17	2869	0.23	3122	0.2 9		
12 1 1 1 4	130	1806	1642	0.06	1789	0.07	1926	0.09	2082	0.11	2279	0.14	2474	0.17	2772	0.23	3021	0.29	3254	0.36	3472	0.43
1000	170	2361	2045	0.12	2183	0.14	2296	0.16	2400	0.18	2505	0.20	2616	0.22	2894	0.28	3199	0.37	3447	0.45		
C. C. S. S. S.	210	2917	2452	0.21	2585	0.24	2692	0.27	2785	0.29	2871	0.31	2956	0.33	3126	0.38	3317	0.44	3549	0.52		
and to be	250	3472	2864	0.34	2990	0.38	3094	0.41	3184	0.44	3264	0.47	3340	0.50	3483	0.55						, I
the second	290	4028	3278	0.52	3397	0.57	3498	0.61	3586	0.65												

100.00												Inlet C	D.D. 5	"		1	Maxim	um BH	IP = 0.	016 (R	PM / 1	000) ³
						Whee	l Diam	eter	9"			Outlet	Area (0.072 s	q. ft.		Т	ip Spe	ed (FP	^o M) = 2	.356 x	RPM
		OV I	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
900	CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	70	972	1101	0.01																		
	110	1528	1255	0.02	1589	0.03	1880	0.05	2137	0.06												
Sec. Sec.	150	2083	1466	0.04	1749	0.06	1998	0.08	2230	0.09	2445	0.11	2646	0.13	2835	0.14						i
States of the second	190	2639	1689	0.06	1952	0.09	2171	0.11	2374	0.13	2566	0.16	2750	0.18	2926	0.20	3093	0.22	3254	0.24	3409	0.26
Carl Contract	230	3194	1927	0.10	2172	0.13	2376	0.15	2560	0.18	2731	0.21	2896	0.24	3056	0.27	3210	0.30	3360	0.32	3505	0.35
14200	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	3500	0.42		
C. C. Carton	310	4306	2449	0.21	2631	0.25	2818	0.29	2986	0.33	3138	0.36	3280	0.40	3415	0.44	3545	0.48				
1. 1. 1. 1. 1.	350	4861	2719	0.30	2882	0.33	3044	0.38	3209	0.43	3358	0.47	3494	0.51								
The same	390	5417	2992	0.40	3142	0.44	3285	0.49	3434	0.54	3581	0.59										
The Party of	430	5972	3268	0.52	3408	0.57	3539	0.62														

	1000											Inlet C).D. 6	"			Maxim	um BH	IP = 0.	043 (R	PM / 1	000) ³
						Whee	l Diam	eter	10 5/8	,		Outlet	Area (0.117 s	sq. ft.		T	ip Spe	ed (FP	'M) = 2	2.782 x	RPM
		ov	1	" SP	1 1/2	" SP	2	" SP	2 1/2	" SP	3	" SP	3 1/2	" SP	4	" SP	5	" SP	6	" SP	7	" SP
1000	CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	170	1453	1375	0.06	1621	0.09	1841	0.12														
	230	1966	1517	0.09	1730	0.12	1926	0.16	2108	0.20	2280	0.23	2441	0.27								
	290	2479	1692	0.14	1880	0.18	2054	0.22	2218	0.26	2374	0.30	2523	0.35	2665	0.39	2934	0.49	3184	0.60		
State R	350	2991	1883	0.20	2057	0.25	2213	0.30	2362	0.34	2503	0.39	2639	0.44	2771	0.49	3021	0.60	3257	0.71	3480	0.83
a start and	410	3504	2077	0.28	2246	0.34	2393	0.40	2529	0.45	2658	0.51	2783	0.56	2905	0.62	3136	0.73	3357	0.85	3567	0.98
	470	4017	2278	0.38	2440	0.45	2583	0.51	2712	0.58	2832	0.65	2948	0.71	3060	0.77	3276	0.89	3482	1.02		
Sector Sector Sector	530	4530	2488	0.51	2636	0.58	2776	0.65	2902	0.73	3018	0.81	3127	0.88	3232	0.95	3434	1.09				
2384.30	590	5043	2707	0.67	2839	0.75	2971	0.83	3096	0.91	3210	0.99	3315	1.07	3416	1.16						
Section Providence	650	5556	2929	0.86	3051	0.94	3171	1.03	3290	1.12	3403	1.21	3508	1.30								
A DECK DECK	800	6838	3497	1.49																		1

048514910	01040	HIREA				Whee	l Diam	eter	12 1/4'	99).D. 7 Area (sq. ft.	I	Maxim Ti		IP = 0. ed (FP	•		
1 3 4 4		ov	1	" SP	1 1/2	" SP	2	" SP	3	" SP	4	" SP	5	" SP	6	" SP	7	" SP	8	" SP	9	" SP
1200	CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RP M	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	320	1850	1384	0.13	1579	0.18	1745	0.23	2039	0.33	2302	0.44	2541	0.55	2761	0.66	2965	0.79	3157	0.92	3339	1.06
	410	2370	1517	0.19	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
and the second second	500	2890	1667	0.27	1854	0.35	2030	0.44	2311	0.59	2542	0.73	2750	0.89	2944	1.05	3128	1.21	3304	1.37	3472	1.54
1312.5	590	3410	1852	0.39	2001	0.46	2160	0.56	2453	0.76	2689	0.94	2892	1.11	3078	1.28	3252	1.47	3417	1.66	3576	1.85
Carl Carlos	680	3931	2058	0.56	2176	0.63	2308	0.71	2583	0.94	2830	1.17	3039	1.37	3224	1.57	3393	1.77	3552	1.97		
10.00	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				
and the second	860	4971	2500	1.07	2585	1.13	2676	1.20	2876	1.39	3094	1.65	3309	1.95	3507	2.25						
and the second second	950	5491	2728	1.42	2804	1.48	2883	1.55	3053	1.72	3243	1.97	3441	2.27								
Carlon Stranger	1040	6012	2959	1.84	3028	1.90	3099	1.97	3247	2.13	3411	2.36	3588	2.64								
Sale and	1130	6532	3192	2.34	3255	2.40	3320	2.47	3452	2.63	3595	2.84										

0.02 50	2289					Whee	l Diam	eter	14"				D. 7 [*] Area (q. ft.	I	Maxim Ti			•	PM / 1 .665 x	
1400		ov	1	" SP	2	" SP	3	" SP	4	" SP	5	" SP	6	" SP	7	" SP	8	" SP	10	" SP		"SP
1400	CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	450	2727	1227	0.16	1529	0.26	1816	0.40	2050	0.53	2247	0.64	2426	0.75	2594	0.86	2754	0.98	3053	1.24	3328	1.53
	600	3636	1441	0.30	1684	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
State of the local division of the local div	750	4545	1668	0.50	1898	0.64	2084	0.75	2260	0.88	2444	1.06	2630	1.29	2807	1.53	2974	1.78	3270	2.24	3527	2.64
Contraction of the	900	5455	1921	0.81	2112	0.96	2298	1.12	2453	1.26	2599	1.40	2748	1.57	2902	1.79	3057	2.05	3357	2.62		
	1050	6364	2187	1.24	2342	1.39	2511	1.58	2669	1.77	2805	1.93	2932	2.08	3057	2.25	3184	2.46	3449	2.98		
	1200	7273	2460	1.81	2592	1.96	2733	2.15	2882	2.38	3022	2.60	3145	2.79	3259	2.96	3369	3.14	3589	3.56		
1.1.1	1350	8182	2737	2.53	2853	2.70	2973	2.89	3102	3.12	3234	3.37	3360	3.62	3475	3.85	3580	4.05				
Child and	1500	9091	3017	3.42	3120	3.61	3226	3.81	3337	4.03	3454	4.29	3573	4.57								
ALC: NOT	1650	10000	3299	4.52	3393	4.72	3488	4.92	3586	5.15												
	1800	10909	3583	5.83																		
	197	1000	2	and a second	Perform	ance sho	own is for	installati	on type E	B: Free in	et, Ducte	d outlet.	Perf	ormance	ratings d	lo not inc	lude the	effects of	appurter	nances ir	the air s	tream.

Performance shown is for installation type B: Free inlet, Ducted outle 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.

PERFORMANCE Belt Drive

CHICAGO BLOWER CORPORATION

Wheel Diameter 18"

	ov	1	" SP		" SP		" SP		" SP		" SP		" SP		" SP	12	" SP	14	" SP	16	" SP	1500
FM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	onr	TOOL
00	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	
00	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	
00	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	- 210
0	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	C Long Con
00	3257 3583	1473 1585	0.68	1654 1754	0.85	1809 1903	0.99	1962 2040	1.16 1.38	2269 2326	1.59 1.82	2525 2588	1.94 2.28	2753 2812	2.26 2.64	2970	2.59 2.99	3179	2.96	3379	3.36	1100
10	3909	1585	1.09	1856	1.29	2002	1.49	2040	1.66	2326	2.07	2566	2.60	2875	3.06	3018 3077	2.99	3217 3267	3.35	3408 3450	3.75	7000
	4235	1818	1.36	1960	1.56	2101	1.78	2227	1.98	2360	2.37	2703	2.90	2935	3.47	3140	3.45	3326	4.37	3502	4.21	T. sec
20	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	3 500
0	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	0002	0.40	and a
0	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			2208
00	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
0	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					1000
00	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					Carlos a
0	6515	2676	4.61	2764	4.85	2854	5.11	2947	5.42	3134	6.11	3309	6.78	3467	7.37							1
0	6840	2801	5.31	2885	5.56	2970	5.83	3057	6.14	3236	6.85	3408	7.57	3565	8.22							the second
20	7166	2927	6.08	3007	6.34	3087	6.62	3170	6.93	3341	7.65	3508	8.42									ACT
	7818	3179	7.84	3252	8.12	3326	8.41	3400	8.73	3555	9.46											10 A 10 A

DESIGN 38-CPB

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

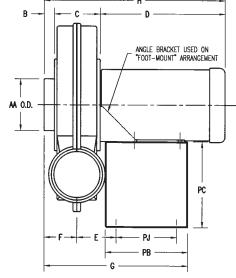
PM RPM	BHP								" SP		" SP		" SP		"SP		"SP		"SP	
	1 0111	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	1800
33 1094	0.25	1465	0.51	1771	0.82	2034	1.13	2268	1.43	2480	1.73	2676	2.03	2859	2.35					
00 1161	0.34	1497	0.58	1791	0.93	2049	1.30	2280	1.68	2490	2.04	2684	2.40	2866	2.76	3036	3.12	3198	3.48	
67 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	State State State
33 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	a state and
00 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	and the second
67 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	112 12
33 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	Total Same
00 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	1 North
67 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	ALL CONTRACT
33 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	a Carlos and
00 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	1. 12 5 1 1
67 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	1. 16 T 1 1 1 1 1
333 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	110000
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	10 m
67 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			101218
333 2900	7.79	3020	8.46	3125	9.01	3218	9.48	3306	9.90	3392	10.30	3479	10.69	3567	11.08					10 - 17 July
333 3098	9.55	3214	10.31	3315	10.94	3406	11.47	3491	11.95	3572	12.40									17 18 - 5 m
333 3297	11.57	3409	12.40	3507	13.11	3596	13.73													1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	0 1161 7 1254 3 1365 0 1485 7 1609 3 1735 0 1862 7 1989 3 2118 0 2246 7 2376 3 2506 0 2245 7 2376 3 3 2506 0 2245 3 3 2900 3 3 3098	0 1161 0.34 7 1254 0.48 3 1365 0.67 0 1485 0.90 7 1609 1.18 3 1735 1.52 0 1852 1.92 7 1609 2.38 3 2118 2.91 10 2246 3.51 7 2376 4.19 13 2506 4.95 10 2637 5.80 17 2376 6.75 13 2000 7.79 13 3098 9.55	0 1161 0.34 1497 7 1254 0.48 1544 3 1365 0.67 1606 0 1485 0.90 1686 7 1609 1.18 1784 3 1735 1.52 1895 0 1862 1.92 2012 7 1989 2.38 2134 3 2118 2.91 2258 10 2246 3.51 2383 7 2376 4.19 2509 3 2506 4.95 2636 10 2637 5.80 2764 47 2768 6.75 2892 13 3098 9.55 3214	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 1161 0.34 1497 0.58 1791 7 1254 0.48 1544 0.68 1821 3 1365 0.67 1606 0.85 1862 0 1485 0.90 1686 1.08 1915 7 1609 1.18 1784 1.38 1981 3 1735 1.52 1895 1.75 2063 0 1852 1.92 2012 2.19 2159 0 1852 1.92 2012 2.19 2159 17 2168 2.32 2134 2.69 2267 3 2118 2.91 2258 3.26 2382 10 2246 3.51 2333 3.91 2501 17 2376 4.19 2509 4.65 2623 13 2506 4.95 2636 5.46 2747 10 2637 5.80 2764 6.37	0 1161 0.34 1497 0.58 1791 0.93 7 1254 0.48 1544 0.68 1821 1.03 3 1365 0.67 1606 0.85 1862 1.16 0 1485 0.90 1686 1.08 1915 1.35 7 1609 1.18 1784 1.38 1981 1.62 3 1355 1.52 1895 1.75 2063 1.98 0 1852 1.92 2012 2.19 2159 2.42 7 1989 2.38 2134 2.69 2267 2.95 3 2118 2.91 2258 3.26 2382 3.55 10 2246 3.51 2383 3.91 2501 4.23 7 2376 4.95 2636 5.46 2747 5.86 10 2637 5.80 2764 6.37 2872 6.81	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 1161 0.34 1497 0.58 1791 0.93 2049 1.30 2280 1.68 2490 2.04 2684 2.40 2866 2.76 7 1254 0.48 1544 0.68 1821 1.03 2070 1.44 2296 1.87 2504 2.31 2696 2.75 2876 3.18 3 1365 0.67 1606 0.85 1862 1.16 2100 1.57 2319 2.03 2522 2.52 2712 3.02 2900 3.63 0 1485 0.90 1686 1.08 1915 1.35 2139 1.74 2350 2.21 2547 2.72 2732 3.26 2908 3.82 7 1609 1.18 1784 1.38 1981 1.62 2188 1.96 2389 2.42 2579 2.93 2759 3.50 2930 4.09 3 1735 1.92 2012	0 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 7 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 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 0 1485 0.90 1686 1.08 1915 1.35 2139 1.74 2350 2.21 2547 2.72 2759 3.50 2908 3.82 3074 3 1735 1.52 1895 1.75 2063 1.98 2.42 2.68 2619 3.19 2759 3.75 2959 4.66 31150 3.83 2.1	0 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 7 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 3 1365 0.67 1606 0.85 1862 1.16 2100 157 2319 2.03 2522 2.52 2.712 3.02 2890 3.53 3058 4.03 0 1485 0.90 1686 1.08 1915 1.35 2139 1.74 2350 2.21 2577 2.72 2732 3.26 2908 3.82 3074 4.88 3 1735 1.52 1895 1.75 2063 1.99 2.42 2.579 2.93 3.75 2959 4.66 311	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0 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 7 1254 0.48 1544 0.68 1821 1.03 2070 1.44 2296 1.87 2504 2.31 2866 2.76 3.18 3046 3.60 3207 4.01 3 1365 0.67 1606 0.85 1862 1.16 2100 1.67 2319 2.03 2522 2.52 2712 3.02 2890 3.53 3068 4.03 3212 4.95 0 1485 0.90 1686 1.08 1915 1.35 2139 1.74 2350 2.21 2547 2.72 2732 3.56 2908 3.82 3074 4.68 3250 5.32 3 1735 1.95 1.75 2063 1.98 2793 3.75 2995 4.36 3119 4.99 3272 5.56 5.32							

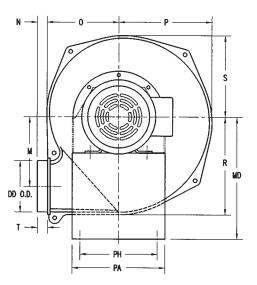
	Diame	tor 1	9 5"				D. 10 Area 0.		. #		Maxim T			•	РМ / 1 .843 х	,						
neer	Diame	ier i	0.5		C	Juliet	alea u.	207 50	. IL			ih She	eu (FF	101) = 4	.043 X							
	ov	2	" SP	4	" SP	6	" SP	8	" SP	10	" SP	12	" SP	14	" SP	16	" SP	18	" SP	20	" SP	107
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	182
600	2091	1023	0.30	1393	0.56																	
800	2787	1107	0.45	1429	0.77	1711	1.11	1968	1.51													
1000	3484	1216	0.69	1511	1.06	1757	1.46	1986	1.87	2206	2.32	2411										
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		1	1.1 2
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	
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	
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	
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	
2400	8362	2098	4.56 5.73	2229	5.08 6.19	2512	6.92 7.48	2696 2819	8.16 9.59	2828	8.98 10.67	2948	9.72	3069	10.50	3195	11.36	3323	12.28	3448	13.23	
2600 2800	9059 9756	2255 2415	5.73 7.10	2365 2510	6.19 7.53	2563 2647	7.48 8.40	2819 2910	9.59 10.79	2961 3088	10.67	3078 3211	11.53 13.53	3189	12.33 14.43	3300	13.16	3416	14.07	3533	15.04	
3000	10453	2575	8.68	2661	9.10	2769	9.79	2959	11.51	3200	14.18	3341	15.65	3319 3452	16.75	3422 3553	15.30	3525	16.18			
3200	11150	2736	10.48	2815	10.90	2908	11.52	3039	12.67	3200	15.43	3461	17.78	3583	19.21	3333	11.12					-
3400	11847	2898	12.52	2971	12.95	3053	13.52	3156	14.42	3321	16.33	3555	19.61	5565	13.41							
3600	12544	3061	14.82	3129	15.25	3203	15.80	3290	16.58	3409	17.92		10.01									
800	13240	3224	17.38	3287	17.82	3356	18.37	3433	19.08	3528	20.13											
1000	13937	3387	20.23	3447	20.68	3510	21.22	3580	21.89													COLUMN TO

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		GENERAL ASSEMBLY DIMENSIONS								BLOWER HOUSING DIMENSIONS								
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 1	6-7/8 6-7/8	9 9	9-7/16 9-7/16	7-13/16 7-13/16	Î	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 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 SHIP	VERT	RTICAL	
MODEL	PA	PB	PC	PH	PJ	WEIGHT	КК	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:

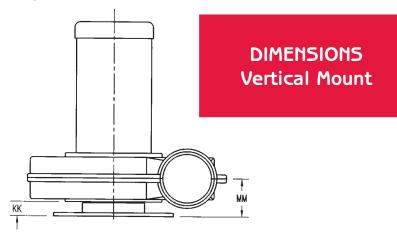
All motors available with C-face flange.

Shipping weights based on heaviest combination in series.

Dimensions are shown in inches.

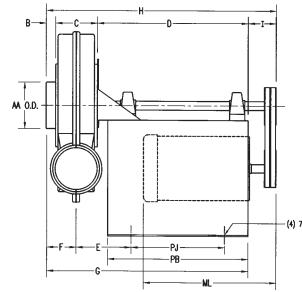
Do not use for construction unless certified.

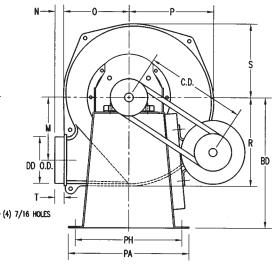
Dimensions shown are for BH discharge only and may vary for other discharges Maximum speed is 3600 RPM.



CHICAGO BLOWER CORPORATION

DESIGN 38-CPB





	MOTOD			GENE	RAL ASSE	MBLY DIN	IENSIONS	;			
MODEL	MOTOR FRAME	AA	В	С	D	E	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 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	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	8-1/16 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.

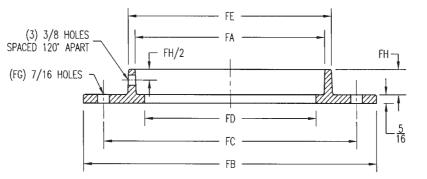
	MOTOR			GENE	RAL ASSE	MBLY DIN	IENSIONS						PE	DESTAL D	DIMENSIO	٧S	APPROX. SHIP
MODEL	FRAME	М	N	0	Р	R	S	т	DD	BD	CD	+/- CD	PA	PB	PH	PJ	WEIGHT
800	56	4-3/8	1-1/8	4-5/8	5-5/8	6-1/2	4-7/8	1-1/8	4	14	11-1/2	1-1/16	13-3/8	15	11-3/8	10	65
900	56	5-3/4	1-3/16	6-1/8	7-3/8	7-7/8	6-5/8	1	4	14	11-1/2	1-1/16	13-3/8	15	11-3/8	10	70
1000	56 143T–145T	6-3/4 6-3/4	1 1	6-1/8 6-7/8	9 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 Belt Drive

DIMENSIONS Inlet/Outlet Flange



DIMENSIONS Full Cut-Off Damper

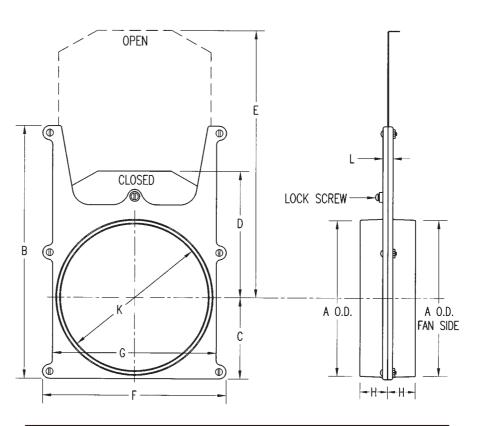


AA or DD	FA	FB*	FC*	FD	FE	NO. of FG HOLES	FH
4	4-1/16	9	7-1/2	3-11/16	4-9/16	4	15/16
5	5-1/16	11	8-1/2	4-9/16	5-9/16	4	15/16
6	6-1/16	11	9-1/2	5-1/2	6-9/16	4	1-1/16
7	7-1/16	11	9-1/2	6-7/16	7-5/8	8	15/16
8	8-1/16	13-1/2	11-3/4	7-1/2	8-5/8	8	1
10	10-1/16	16	14-1/4	9-11/16	10-9/16	8	1

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	E	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.

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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