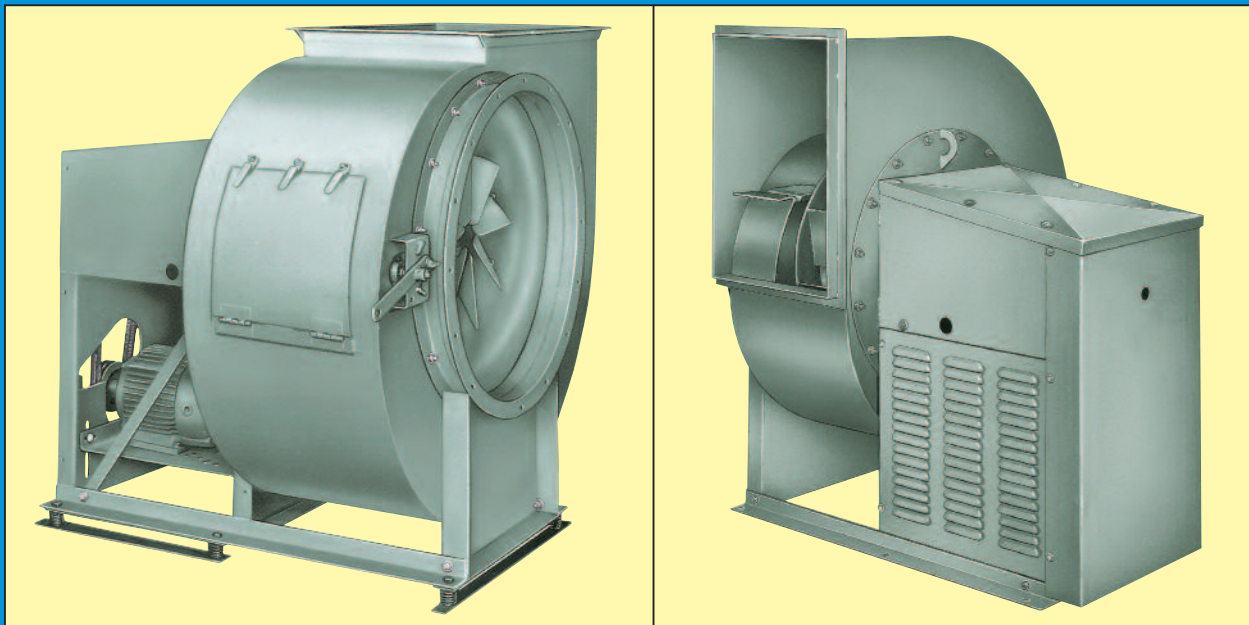


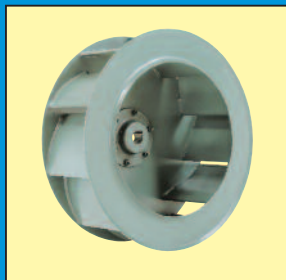
# GENERAL PURPOSE PACKAGED FANS



## GENERAL PURPOSE FAN

- Capacities to 26,500 CFM
- Static pressures to 8" WG
- Temperatures to 650°F.

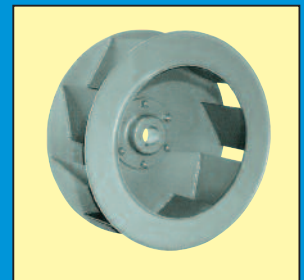
GP Fans available with choice of AcoustaFoil, BC, or PLR wheel.



ACOUSTAFOIL®



BC



PLR



THE NEW YORK BLOWER COMPANY  
7660 Quincy Street  
Willowbrook, IL 60527-5530

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Phone: (800) 208-7918 Email: [nyb@nyb.com](mailto:nyb@nyb.com)

## GENERAL PURPOSE FANS



### DESIGN FEATURES

- 10 sizes: 12" through 36" wheel diameters.
- Capacities to 26,500 CFM.
- Pressures to 8"WG.
- Temperatures to 650°F.
- Choice of AcoustaFoil, BC, or PLR wheels.
- Available in clockwise and counterclockwise rotations in any of seven standard discharge positions.
- Continuously welded housings provide the strongest possible construction.
- All AcoustaFoil, BC, and PLR wheels are dynamically balanced and all fans checked at the specified running speed after final assembly.
- Base is designed to allow easy installation and maintenance of motor, drive, and bearings.
- Lifting eyes standard on all fans.
- All sizes are rotatable: Sizes 12 and 15 in 45° increments, Sizes 18 through 36 in 22½° increments.



**AMCA air performance**—The New York Blower Company certifies that the General Purpose Fans with AcoustaFoil or PLR wheels only, shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

## ACCESSORIES

### FLANGED OUTLET

Welded flush with outlet and provided with holes. Outlet companion flanges with matching holes also available.

### FLANGED INLET

Angle ring welded to inlet collar and provided with holes. Inlet companion flanges with matching holes also available.

### CLEANOUT DOOR

Two types available—quick opening [shown]: gasketed, hinged door opens after turning cam levers. Bolted: closely spaced studs keep gasketed door securely sealed. Standard door location is 3 o'clock or 9 o'clock opposite the fan discharge.

### DRAIN

1" welded tank flange on Sizes 12 and 15 General Purpose Fans, and 1½" on Sizes 18 through 36 General Purpose Fans located at lowest point of housing scroll.

### VIBRATION ISOLATION

Spring-type [shown] or rubber-in-shear isolation rails . . . minimize the transmission of vibration to surrounding structures. Flexible inlet/outlet connections are required.

### INTERNAL INLET DAMPERS

Available on Size 18 and larger [shown]. . . allows smooth volume control in systems that require dampening of air-flow. The space-saving damper/integral inlet cone assembly simplifies installation. Furnished with quick-opening cleanout door to provide access to linkage components. Control arm is located on inlet side on horizontal centerline opposite the fan discharge.

### OUTLET SHUTTERS

For all discharges except Angular Down and Down Blast . . . available for automatic or motorized operation . . . heavy-duty outlet shutter blades have die-formed edges for quiet, weatherproof operation at temperatures to 200°F.

### SHAFT SEALS

Multiple, compressed ceramic-felt seal elements available on General Purpose Fans Size 15 and larger. Lubricated lip seals [Buna N, Teflon®, and Viton®] also available on Size 22 and larger General Purpose Fans.

[Teflon and Viton are registered trademarks of DuPont and DuPont Dow Elastomers, respectively.]

### POSITIVE SCREW ADJUSTMENT

Two threaded rods provide easy motor platform/V-belt adjustment. Available on all sizes of General Purpose Fans.

### OUTLET DAMPERS

Parallel or opposed-blade outlet dampers are available for volume-control applications for temperatures to 650°F.

# MODIFICATIONS

## SPARK-RESISTANT CONSTRUCTION [SRC]

Intended to minimize the potential of fan components to generate sparks within the airstream by rubbing or striking during operation. The following types are available:

**AMCA A (AIRSTREAM-TYPE) SRC**—all airstream parts constructed of spark-resistant alloy . . . maximum temperature 200°F.

**AMCA B (WHEEL-TYPE) SRC**—fan wheel constructed of spark-resistant alloy and a buffer plate around the housing shaft-hole opening . . . maximum temperature 200°F.

**AMCA C (BUFFER-TYPE) SRC**—spark-resistant alloy buffer affixed to the housing interior adjacent to the wheel backplate, spark-resistant alloy inlet cone and a buffer plate around the housing shaft-hole opening . . . maximum temperature 650°F.

## WEATHER COVER/BELT GUARD

Completely encloses the motor/drive assembly for protection, but can be easily removed for inspection and maintenance. Louvered panels provide ample motor ventilation.

## HEAT-FAN CONSTRUCTION

Sizes 12 and 15 General Purpose Fans with aluminum AcoustaFoil wheels have a maximum operating temperature of 200°F. Sizes 18 through 36 General Purpose Fans with AcoustaFoil wheels and all General Purpose Fans with BC and PLR wheels can be modified to handle airstream temperatures to 650°F. . . . air temperature surrounding the bearings must not exceed 120°F. or the motor's rated ambient temperature.

## HANDLING CORROSIVES

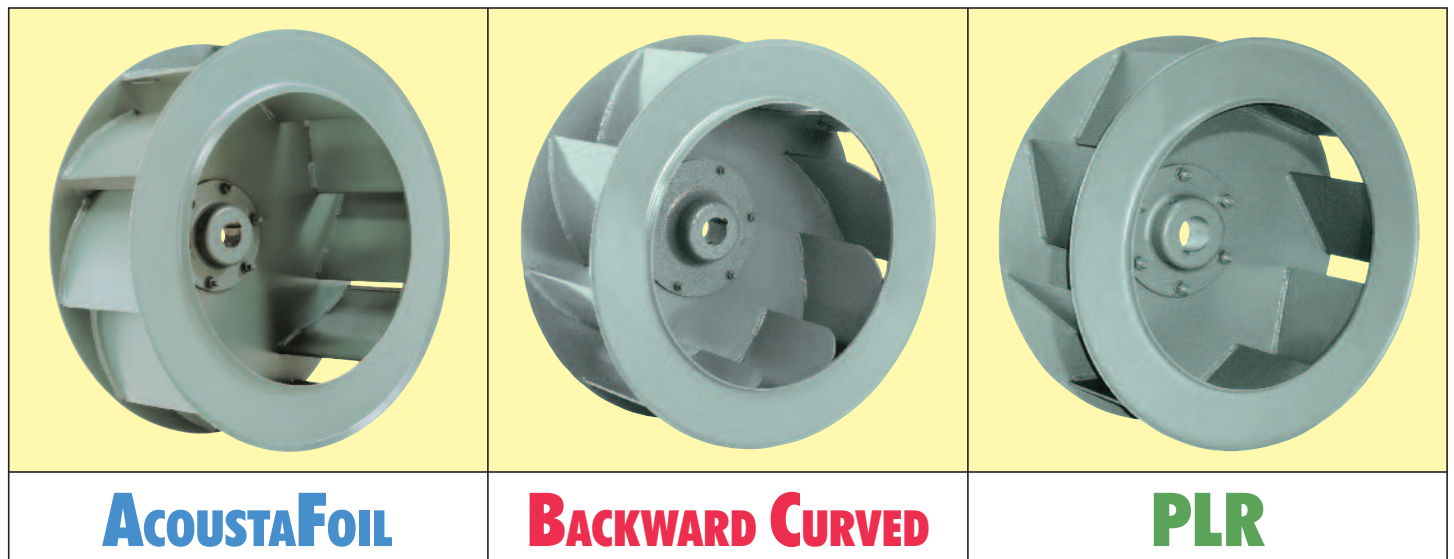
Protective coatings and special alloys are available to combat corrosion problems. Thin film coatings [up to 12 mil thickness]—special paints and spray coatings are available under a variety of trade names. **nyb** works with experienced coating applicators who can apply coatings to meet a wide range of requirements. General Purpose Fans can be constructed of aluminum or various stainless steels.

## SAFETY EQUIPMENT

Weather covers/belt guards, inlet guards, and outlet guards are available. Safety accessories are available from **nyb**, but the selection of the appropriate devices is the responsibility of the system-designer who is familiar with the particular installation, or application, and can provide for guards for all exposed moving parts as well as protection from access to high-velocity airstreams. Neither **nyb** nor its sales representatives is in a position to make such a determination. Users and/or installers should read "Recommended Safety Practices for Air Moving Devices" as published by the Air Movement and Control Association International, Arlington Heights, Illinois.

## CHOICE OF 3 WHEEL DESIGNS

Three wheel designs provide the widest choice in application suitability, efficiency, sound, and cost. All three feature the backward-inclined, non-overloading horsepower characteristic where the horsepower reaches a peak and then decreases even as flow increases. This characteristic allows maximum brake horsepower calculation and motor selection that prevents electrical system overloading even if system pressure changes.



# How to Use Capacity Tables

The performance data provided on pages 5 through 9 are based on standard air, [.075 pounds per cubic foot, 70°F. at sea level]. For a given fan size, wheel design, CFM, and static pressure, the capacity tables can be used to obtain outlet velocity, wheel RPM, and fan BHP. If altitudes or temperatures other than standard are involved, multiply the required SP [static pressure] by the appropriate factors in Chart II and Chart III. Always check the operating speed with the maximum safe speeds found on page 5, and as corrected in Chart I.

PROCEDURE	STEPS	EXAMPLE
Determine capacity requirements and select proper fan size.	<b>1</b>	Size 18 General Purpose Fan with PLR wheel to furnish 5700 CFM at 3.2"SP at 200°F.
If temperature or altitude is involved, multiply desired SP by appropriate factor.	<b>2</b>	Correction factor for 200°F. = 1.25 1.25 x 3.2"SP = 4"SP
Obtain fan RPM and BHP from capacity tables for standard conditions.	<b>3</b>	For a Size 18 General Purpose Fan with PLR wheel to furnish 5700 CFM at 4"SP at 70°F., capacity tables show 2152 RPM and 5.6 BHP.
Divide the SP and BHP obtained in step 3 by the factor used in step 2 to determine requirements at conditions.	<b>4</b>	4"SP/1.25 = 3.2"SP at 200°F. 5.6 BHP/1.25 = 4.5 BHP at 200°F.
Check required RPM against maximum safe speeds shown on page 5. If temperature other than 70°F. is involved, use Chart I to calculate safe speed at temperature.	<b>5</b>	Required RPM = 2152 Maximum safe speed at 200°F. = 2653 RPM. [2735 x .97]

CHART I TEMPERATURE CORRECTION FACTORS FOR MAXIMUM SAFE SPEEDS					
Air-stream temp. °F.	Materials of construction				
	Steel†	Aluminum	304 SST*	316 SST*	347 SST*
-50°	1.00	1.00	1.00	1.00	1.00
70°	1.00	1.00	1.00	1.00	1.00
200°	.97	.98	.88	.95	.95
300°	.95	—	.82	.92	.93
400°	.94	—	.78	.89	.90
500°	.93	—	.75	.86	.90
600°	.92	—	.73	.84	.90
650°	.89	—	.71	.82	.90

† Except Sizes 12 and 15 AcoustaFoil wheels which are aluminum as standard.

\* PLR wheels only.

CHART II TEMPERATURE CORRECTION FACTORS (°F.)	
Temp. °F.	Factor
-50°	.77
-25°	.82
0°	.87
20°	.91
40°	.94
60°	.98
70°	1.00
80°	1.02
100°	1.06
120°	1.09
140°	1.13
160°	1.17
180°	1.21
200°	1.25
225°	1.29
250°	1.34
275°	1.39
300°	1.43
325°	1.48
350°	1.53
375°	1.58
400°	1.62
450°	1.72
500°	1.81
550°	1.91
600°	2.00
650°	2.10

CHART III CORRECTION FACTORS FOR ALTITUDE [feet above sea level]	
Alt.	Factor
0	1.00
500	1.02
1000	1.04
2000	1.06
2500	1.10
3000	1.12
3500	1.14
4000	1.16
4500	1.18
5000	1.20
5500	1.22
6000	1.25
6500	1.27
7000	1.30
7500	1.32
8000	1.35
8500	1.37
9000	1.40
10000	1.45

NOTE: If both temperature and altitude are involved, multiply factors together:  
3000 ft. at 200°F. = 1.40 [1.12x1.25]

# PERFORMANCE SPECIFICATIONS

Fan size	Maximum safe speed [RPM]			Wheel diameter [inches]	Fan outlet area [sq. ft.]
	AcF	BC	PLR		
12	4900	NA	4270	12¼	0.86
15	3800	NA	3360	15	1.29
18	3005	2735	2735	18¼	1.92
20	2780	2510	2510	20⅛	2.34
22	2570	2305	2305	22¼	2.85
24	2335	2090	2090	24½	3.45
27	2010	1850	1850	27	4.19
30	1805	1665	1665	30	5.17
33	1650	1515	1515	33	6.26
36	1450	1360	1360	36½	7.66

NA - Not Available

## PERFORMANCE FOR GENERAL PURPOSE FANS

SIZE <b>12</b> ACOUSTAFOIL	CFM	OV	½"SP		1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			700	814	1208	0.09	1494	0.17	2049	0.40	2491	0.67	2874	0.98	3217	1.32	3520	1.68	3810	2.08
1050	1221	1507	0.17	1754	0.28	2150	0.52	2520	0.80	2899	1.16	3230	1.53	3534	1.94	3806	2.36	4060	2.80	
1400	1628	1855	0.29	2051	0.43	2412	0.72	2712	1.04	2986	1.38	3265	1.76	3557	2.21	3842	2.70	4087	3.16	
1750	2035	2225	0.47	2388	0.63	2696	0.99	2984	1.36	3233	1.76	3465	2.17	3682	2.59	3898	3.04	4131	3.56	
2100	2442	2607	0.72	2748	0.92	3013	1.32	3267	1.77	3509	2.21	3730	2.68	3923	3.14	4120	3.65	4303	4.15	
2450	2849	2996	1.07	3121	1.29	3356	1.76	3573	2.24	3795	2.78	4006	3.29	4204	3.82	4381	4.35	4552	4.91	
2800	3256	3389	1.51	3499	1.77	3710	2.29	3910	2.83	4106	3.41	4297	4.02	4485	4.60	4666	5.20	4824	5.77	
3150	3663	3786	2.07	3886	2.36	4075	2.94	4256	3.53	4433	4.15	4609	4.82	4771	5.48					

SIZE <b>12</b> PLR	CFM	OV	½"SP		1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			900	1047	1202	0.12	1457	0.21	1912	0.44	2305	0.73	2662	1.07						
1200	1395	1439	0.20	1646	0.31	2021	0.56	2364	0.86	2690	1.21	2977	1.58	3250	2.00	3514	2.47	3750	2.94	
1500	1744	1699	0.32	1874	0.45	2194	0.74	2494	1.06	2773	1.42	3049	1.82	3300	2.25	3547	2.72	3779	3.22	
1800	2093	1967	0.48	2123	0.64	2405	0.97	2663	1.32	2918	1.71	3151	2.11	3390	2.57	3609	3.04	3815	3.52	
2100	2442	2244	0.70	2384	0.88	2635	1.26	2868	1.65	3094	2.07	3306	2.50	3520	2.98	3722	3.47	3912	3.97	
2400	2791	2525	0.98	2652	1.19	2879	1.61	3091	2.04	3296	2.50	3488	2.97	3678	3.46	3869	3.99	4049	4.52	
2700	3140	2809	1.33	2924	1.56	3134	2.04	3329	2.51	3515	3.01	3692	3.51	3870	4.05	4040	4.60	4212	5.18	
3000	3488	3096	1.76	3202	2.02	3398	2.55	3576	3.07	3746	3.60	3913	4.16	4075	4.72	4234	5.31			

SIZE <b>15</b> ACOUSTAFOIL	CFM	OV	½"SP		1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			1200	930	1047	0.15	1275	0.28	1655	0.59	1984	0.96	2272	1.37	2535	1.82	2775	2.31	3003	2.83
1600	1240	1240	0.24	1438	0.40	1769	0.76	2059	1.17	2324	1.62	2566	2.11	2788	2.62	3006	3.19	3210	3.78	
2000	1550	1447	0.36	1621	0.55	1921	0.97	2181	1.42	2415	1.91	2636	2.43	2849	3.00	3054	3.61	3237	4.21	
2400	1860	1665	0.52	1823	0.75	2095	1.23	2329	1.73	2549	2.28	2748	2.83	2945	3.45	3135	4.10	3307	4.74	
2800	2171	1888	0.74	2031	0.99	2280	1.53	2501	2.10	2704	2.70	2896	3.34	3072	3.97	3245	4.66	3411	5.37	
3200	2481	2117	1.01	2247	1.30	2477	1.90	2685	2.54	2876	3.20	3048	3.86	3220	4.58	3383	5.32	3539	6.08	
3600	2791	2350	1.36	2468	1.68	2682	2.34	2875	3.03	3056	3.76	3221	4.49	3381	5.26	3536	6.06	3678	6.83	
4000	3101	2585	1.79	2693	2.14	2892	2.86	3074	3.62	3247	4.42	3404	5.20	3552	6.01	3696	6.84			

SIZE <b>15</b> PLR	CFM	OV	½"SP		1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			1200	930	924	0.15	1151	0.28	1544	0.63	1867	1.04	2153	1.54	2407	2.11				
1600	1240	1090	0.24	1271	0.40	1604	0.76	1905	1.21	2174	1.72	2423	2.30	2637	2.90	2859	3.62	3048	4.32	
2000	1550	1273	0.38	1429	0.56	1710	0.96	1975	1.43	2220	1.95	2450	2.54	2667	3.18	2863	3.85	3061	4.62	
2400	1860	1464	0.56	1602	0.77	1848	1.22	2080	1.72	2298	2.27	2514	2.89	2711	3.53	2900	4.23	3083	4.98	
2800	2171	1657	0.79	1786	1.04	2009	1.55	2215	2.09	2410	2.67	2601	3.31	2779	3.97	2958	4.69	3131	5.46	
3200	2481	1852	1.08	1977	1.38	2178	1.94	2364	2.54	2542	3.16	2718	3.84	2886	4.55	3052	5.31	3213	6.11	
3600	2791	2049	1.45	2170	1.79	2358	2.42	2532	3.08	2698	3.77	2852	4.47	3007	5.22	3159	6.00	3304	6.80	
4000	3101	2246	1.88	2364	2.28	2546	3.00	2705	3.71	2856	4.44	3003	5.20	3142	5.98	3283	6.80			

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).









# PERFORMANCE FOR GENERAL PURPOSE FANS

SIZE	CFM	OV	½"SP		1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
<b>33</b> ACOUSTAFOIL	9500	1518	566	1.31	636	2.04	787	3.82	930	5.87	1053	8.00	1169	10.3	1279	12.9	1378	15.5	1473	18.3	
	11500	1837	662	1.95	714	2.73	837	4.68	963	6.93	1081	9.35	1190	11.9	1290	14.5	1386	17.4	1479	20.4	
	13500	2157	762	2.81	804	3.68	903	5.76	1011	8.19	1115	10.8	1218	13.6	1312	16.4	1403	19.4	1493	22.6	
	15500	2476	864	3.93	899	4.89	979	7.07	1070	9.62	1163	12.4	1257	15.5	1345	18.5	1431	21.7	1518	25.3	
	17500	2796	967	5.36	998	6.40	1064	8.73	1141	11.4	1224	14.4	1305	17.5	1387	20.9	1469	24.4	1549	28.0	
	19500	3115	1071	7.12	1098	8.26	1155	10.7	1220	13.5	1291	16.6	1366	20.0	1439	23.5	1512	27.1	1586	30.9	
	21500	3435	1175	9.24	1200	10.5	1251	13.1	1305	16.0	1368	19.3	1432	22.7	1500	26.4	1567	30.3	1633	34.2	
	23500	3754	1280	11.8	1303	13.1	1349	16.0	1397	19.0	1450	22.3	1509	26.0	1569	29.9	1629	33.8			

SIZE	CFM	OV	½"SP		1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
<b>33</b> BC	8500	1358	518	1.29	597	2.10	727	3.76	846	5.69	958	7.88	1065	10.4	1164	13.0	1256	15.9	1340	18.8	
	10000	1597	584	1.76	652	2.66	775	4.55	879	6.59	982	8.92	1079	11.4	1172	14.2	1261	17.1	1344	20.2	
	11500	1837	652	2.36	711	3.33	826	5.48	925	7.71	1016	10.1	1104	12.7	1187	15.4	1268	18.3	1351	21.6	
	13000	2077	721	3.10	776	4.16	879	6.55	976	9.00	1060	11.6	1140	14.3	1216	17.1	1295	20.3	1370	23.5	
	14500	2316	791	3.98	843	5.18	935	7.73	1027	10.5	1109	13.2	1182	16.0	1254	19.1	1324	22.2	1393	25.5	
	16000	2556	862	5.05	910	6.37	996	9.09	1081	12.1	1159	15.0	1233	18.1	1300	21.3	1363	24.5	1427	27.9	
	17500	2796	934	6.32	979	7.76	1058	10.6	1137	13.9	1211	17.1	1284	20.4	1349	23.7	1409	27.1	1472	30.8	
	19000	3035	1006	7.80	1048	9.34	1123	12.4	1194	15.7	1266	19.4	1335	22.9	1401	26.5	1461	30.0			

SIZE	CFM	OV	½"SP		1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
<b>33</b> PLR	11000	1757	572	2.10	640	2.97	768	4.87	894	7.15	1010	9.74	1119	12.6	1222	15.8					
	12500	1997	632	2.77	693	3.77	808	5.82	919	8.13	1028	10.8	1129	13.7	1229	16.9	1319	20.3	1412	24.2	
	14000	2236	693	3.57	749	4.71	854	6.96	955	9.38	1054	12.1	1151	15.1	1241	18.3	1331	21.9	1420	25.7	
	15500	2476	755	4.51	807	5.82	902	8.24	994	10.8	1087	13.7	1174	16.6	1261	20.0	1344	23.4	1428	27.4	
	17000	2716	818	5.62	866	7.10	955	9.77	1040	12.5	1125	15.5	1206	18.5	1288	21.9	1365	25.4	1443	29.3	
	18500	2955	882	6.92	926	8.55	1011	11.5	1090	14.5	1166	17.5	1244	20.8	1320	24.2	1393	27.8	1466	31.7	
	20000	3195	946	8.42	989	10.2	1066	13.5	1141	16.6	1213	19.8	1283	23.2	1353	26.6	1423	30.4	1493	34.4	
	21500	3435	1010	10.1	1050	12.1	1124	15.7	1194	19.0	1262	22.4	1329	26.0	1395	29.6	1459	33.4			

SIZE	CFM	OV	½"SP		1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
<b>36</b> ACOUSTAFOIL	12500	1632	549	1.85	609	2.78	726	4.88	840	7.26	954	10.0	1059	12.9	1155	15.9	1253	19.3	1341	22.7	
	14500	1893	618	2.51	672	3.57	773	5.84	873	8.42	970	11.2	1069	14.3	1164	17.6	1252	21.0	1337	24.6	
	16500	2154	688	3.32	738	4.53	827	6.99	916	9.77	1002	12.7	1089	15.9	1178	19.4	1259	22.9	1343	26.8	
	18500	2415	759	4.32	805	5.67	887	8.40	966	11.3	1044	14.4	1120	17.7	1198	21.3	1276	25.0	1351	28.9	
	20500	2676	831	5.51	874	7.01	950	9.99	1023	13.2	1092	16.4	1163	19.9	1235	23.7	1304	27.5	1373	31.6	
	22500	2937	904	6.94	944	8.60	1015	11.8	1081	15.2	1147	18.7	1212	22.4	1274	26.2	1340	30.3	1406	34.6	
	24500	3198	977	8.59	1015	10.4	1082	14.0	1144	17.5	1204	21.2	1262	25.0	1324	29.2	1381	33.3	1440	37.6	
	26500	3460	1050	10.5	1086	12.5	1150	16.3	1208	20.2	1265	24.2	1321	28.3	1376	32.5	1429	36.7			

SIZE	CFM	OV	½"SP		1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
<b>36</b> BC	12500	1632	517	2.12	575	3.14	689	5.42	797	7.95	895	10.8	990	14.0	1074	17.4	1157	21.1	1230	24.7	
	14500	1893	582	2.90	633	4.04	733	6.60	829	9.32	921	12.3	1008	15.5	1089	19.0	1166	22.8	1244	27.0	
	16500	2154	648	3.88	694	5.15	783	7.94	868	10.9	952	14.0	1035	17.4	1112	21.0	1185	24.9	1258	29.1	
	18500	2415	716	5.10	757	6.51	837	9.50	915	12.8	992	16.2	1065	19.6	1139	23.4	1210	27.4	1277	31.5	
	20500	2676	785	6.59	822	8.11	894	11.3	965	14.8	1035	18.5	1106	22.4	1171	26.1	1237	30.2	1303	34.5	
	22500	2937	854	8.35	889	10.0	955	13.5	1020	17.2	1085	21.1	1149	25.2	1212	29.4	1272	33.6	1334	38.1	
	24500	3198	924	10.4	956	12.2	1017	15.9	1078	19.9	1137	24.0	1197	28.4	1256	32.9	1311	37.3			
	26500	3460	994	12.8	1024	14.8	1082	18.8	1138	23.0	1193	27.3	1248	31.9	1303	36.7	1357	41.5			

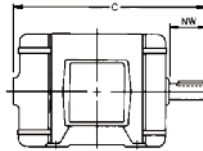
SIZE	CFM	OV	½"SP		1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
<b>36</b> PLR	12500	1632	494	1.96	558	2.99	684	5.41	809	8.39	923	11.8	1028	15.5	1120	19.4					
	14500	1893	553	2.64	609	3.79	718	6.38	828	9.43	934	12.9	1032	16.7	1124	20.8	1213	25.2	1298	30.1	
	16500	2154	614	3.50	664	4.79	761	7.56	857	10.7	951	14.2	1045	18.2	1134	22.4	1221	27.1	1300	31.9	
	18500	2415	677	4.56	722	5.99	809	9.00	895	12.3	980	15.9	1067	20.0	1152	24.5	1230	29.0	1310	34.1	
	20500	2676	740	5.84	782	7.41	860	10.6	939	14.2	1016	18.0	1093	22.0	1168	26.4	1247	31.4	1320	36.3	
	22500	2937	805	7.36	843	9.09	916	12.6	986	16.2	1057	20.2	1129	24.5	1197	29.0	1268	33.8	1339	39.1	
	24500	3198	870	9.15	905	11.0	972	14.8	1038	18.7	1103	22.8	1167	27.2	1234	32.0	1298	36.9			
	26500	3460	935	11.2	968	13.2	1031	17.3	1093	21.5	1153	25.8	1211	30.3	1273	35.3	1332	40.3			

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses.  
Performance ratings do not include the effects of appurtenances (accessories).

# GENERAL PURPOSE FAN SPECIFICATIONS

## MAXIMUM MOTOR SIZES Arrangement 10

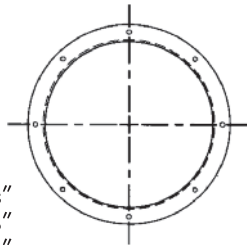
Motor frame sizes vary in length with different motor manufacturers. To determine whether a specific motor will fit, the frame size should be equal to or smaller than the maximum shown and the case length [NEMA C minus NEMA NW] must be equal to or less than the maximum allowable dimension shown.



DIMENSIONS [INCHES]			
Size	Maximum motor frame		Maximum motor case length [C-NW]
	Open	TE	
12	215T	184T	14½
15	215T	215T	16⅝
18	215T	215T	16⅝
20	256T	254T	18⅝
22	256T	254T	18⅝
24	256T	254T	18⅝
27	284T	256T	19½
30	284T	256T	19½
33	284T	284T	22½
36	284T	284T	22½

## FLANGED INLET OPTION

Holes furnished on vertical centerline.



NOTE: Inlet flange material:  
Size 12 . . . . . 1" x 1" x ⅛"  
Sizes 15-22 . . . 1½" x 1½" x ⅜"  
Sizes 24-36 . . . . . 2" x 2" x ⅜"

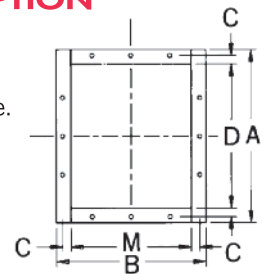
## FLANGED OUTLET OPTION

1. Mounted flush with outside edge of housing discharge.
2. Holes furnished on 4" centers on centerline.

NOTE: Outlet flange material:

◆ Sizes 12-22 . . . . . 7 gauge plate  
Sizes 24-33 . . . 1½" x 1½" x ⅜"  
Size 36 . . . . . 2" x 2" x ⅜"

◆ Consult **nyb** if SST or aluminum construction is required. Dimensions will vary.



DIMENSIONS [INCHES]								
Size	A†	B†	C	D*	M*	No. of holes per flange		Dia.
						Sides	Top/bottom	
12	15¾	11¾	⅝	13 <sup>11</sup> / <sub>16</sub>	9¾	3	3	⅝
15	19¾	13¾	⅝	16 <sup>13</sup> / <sub>16</sub>	11¾	5	3	⅝
18	23½	16¾	¾	20½	13 <sup>15</sup> / <sub>16</sub>	5	3	7/16
20	25⅝	18	¾	22⅝	15 <sup>1</sup> / <sub>16</sub>	7	3	7/16
22	27⅞	19⅞	¾	24 <sup>7</sup> / <sub>8</sub>	16 <sup>15</sup> / <sub>16</sub>	7	3	7/16
24	30¾	21½	⅞	27¾	18½	7	5	7/16
27	33¼	23¾	⅞	30¼	20¾	9	5	7/16
30	36½	25⅝	⅞	33½	22⅝	9	5	7/16
33	39⅞	27⅞	⅞	36⅞	24 <sup>7</sup> / <sub>8</sub>	9	5	7/16
36	44¾	31½	1½	40¾	27½	11	7	9/16

\* Dimension shown is inside flange, outside housing. Deduct housing material thicknesses to determine inside dimensions of discharge.

† Dimension shown may differ for alloy construction or DB discharge.

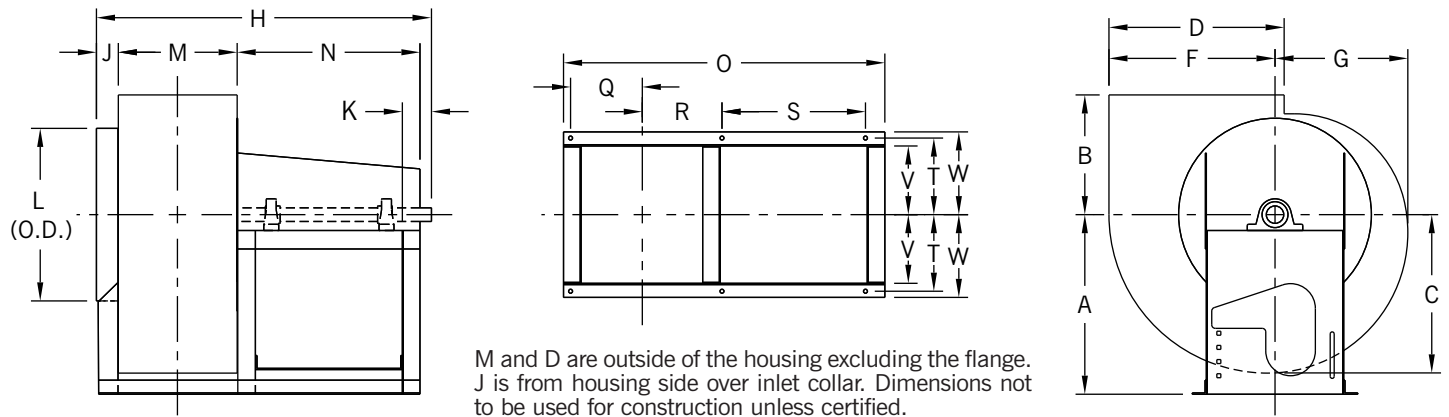
DIMENSIONS [INCHES]					
Size	I.D.	B.C.	O.D.	Holes	
				No.	Diameter
12	13½	14⅝	15½	8	7/16
15	16¾	17⅞	19¾	8	7/16
18	20	21¾	23	16	9/16
20	21¾	23½	24¾	16	9/16
22	24¾	26⅞	27¾	16	9/16
24	26⅞	29⅞	30⅞	16	9/16
27	29½	31¾	33½	16	9/16
30	32⅞	35⅞	36⅞	16	9/16
33	36⅞	38¾	40⅞	16	9/16
36	40⅞	42¾	44⅞	16	9/16

## MATERIAL SPECIFICATIONS

Size	Housing		Pedestal		Platform		Drive plate	Inlet hanger	Base angles	Wheels						Shaft dia.	Brgs. †	Bare fan wt.*
	Sides	Scroll	Sides	Ends	Motor	Bearing				AcustaFoil		BC		PLR				
										Wts.	WR <sup>2</sup>	Wt.	WR <sup>2</sup>	Wt.	WR <sup>2</sup>			
12	14	16	12	12	7	10	12	10	1½ x 1½ x ⅜	8*	2	NA	NA	15	2	17/16	A	145
15	14	16	12	12	7	10	12	10	1½ x 1½ x ⅜	12*	3	NA	NA	21	5	17/16	A	195
18	14	14	12	12	7	7	10	10	2 x 2 x ⅜	31	11	36	12	32	11	1 <sup>11</sup> / <sub>16</sub>	A	300
20	14	14	10	10	7	7	10	10	2 x 2 x ⅜	38	15	49	20	41	17	1 <sup>11</sup> / <sub>16</sub>	A	350
22	14	14	10	10	7	7	10	10	2 x 2 x ⅜	45	23	68	31	50	26	1 <sup>15</sup> / <sub>16</sub>	A	425
24	12	14	10	10	¼	7	10	10	2 x 2 x ⅜	70	39	88	49	67	37	1 <sup>15</sup> / <sub>16</sub>	A	535
27	12	14	10	7	¼	7	10	10	3 x 2 x ⅜	89	64	103	72	89	63	1 <sup>15</sup> / <sub>16</sub>	B	645
30	12	14	10	7	¼	7	10	10	3 x 2 x ⅜	100	90	125	111	106	96	1 <sup>15</sup> / <sub>16</sub>	B	720
33	12	14	10	7	¼	7	10	10	3 x 2 x ⅜	118	123	146	151	125	134	2 <sup>3</sup> / <sub>16</sub>	C	940
36	12	12	10	7	¼	7	7	10	3 x 2 x ⅜	175	232	204	267	179	235	2 <sup>3</sup> / <sub>16</sub>	C	1130

\* Aluminum wheels. † **nyb** reserves the right to substitute bearings of equal or greater rating. Bearings: A = Link Belt P3U-200 series ball bearings. B = Sealmaster SPM series ball bearings. C = Sealmaster MPD series ball bearings. • Approximate shipping weight in pounds. NA = Not Available.

# GENERAL PURPOSE FAN DIMENSIONS

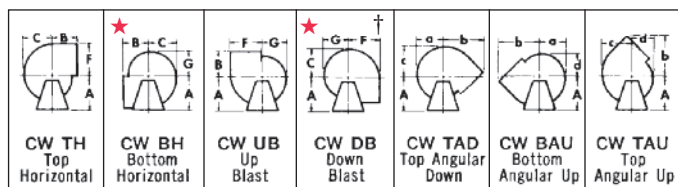


DIMENSIONS [INCHES]													
Size	A	B	C	D	F	G	H	J	K	L	M	N	O
12	15½	10	12¾	13⅝	13	10¾	32	2½	2½	13½	9¾	20	31½
15	17½	12	15½	16¾	15⅞	12⅝	37½	3½	3	16½	11¾	22	35⅝
18	21¼	14	18¾	20½	19¾	15¾	40½	3½	3½	20	13¾	22	38⅝
20	25½	15½	20¾	22½	21¾	17	45⅝	3½	4	22¾	15	26	43¾
22	25½	17	22½	24⅞	23⅝	18¾	47⅝	3½	4	24½	16⅞	26	45⅝
24	28	19	24¾	27¾	26	20¾	50¾	4½	4½	27	18½	26	47¾
27	32½	20½	27¼	30¼	28⅝	22¾	54	4½	5	30	20¾	26⅞	50½
30	32½	22½	30¼	33½	31¾	25¾	56¾	4½	5½	33	22⅝	26⅞	52¾
33	39½	24½	33¾	36⅞	35	27⅞	62½	4½	6	36½	24⅞	29⅞	58
36	39½	29	36⅞	40¾	38¾	30⅞	66½	5	6	40	27½	30	60¾

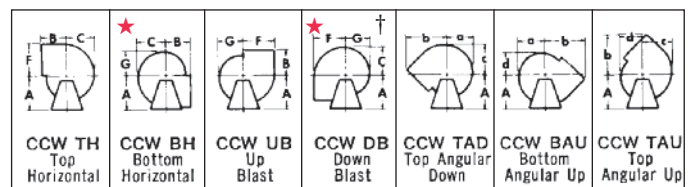
Size	Q	R	S	T	V	W	a	b	c	d	Shaft		Base holes
											Dia.	Keyway	
12	6⅛	6⅝	16¾	7¾	6½	8	11⅝	16¼	12⅞	9¼	17/16	⅜ x ⅜/16	9/16
15	7¼	7⅝	18¾	8⅞	8	9½	14⅞	19¾	15¾	11⅝	17/16	⅜ x ⅜/16	9/16
18	8⅝	9⅝	17¾	9¾	8¼	10¼	17¼	23⅝	19½	13⅞	11½/16	⅜ x ⅜/16	9/16
20	9¼	10¾	20¾	10⅞	9¾	11¾	18⅞	26⅞	21⅞	15	11½/16	⅜ x ⅜/16	9/16
22	10¼	11¾	20¾	10⅞	9¾	11¾	21	28¾	23¼	16¾	11½/16	½ x ¼	9/16
24	11½	12¾	19⅞	12¼	11	13	23⅞	31⅞	25⅞	18½	11½/16	½ x ¼	¾
27	12½	13¾	20¾	13¾	11¾	14¾	25⅞	34¾	28¼	20¾	11½/16	½ x ¼	¾
30	13⅝	14½	20¾	13¾	11¾	14¾	28¼	38¾	31¾	22⅞	11½/16	½ x ¼	¾
33	14¾	15⅝	23¾	16	14	17	31⅞	42⅞	34⅝	25¼	2¾/16	½ x ¼	¾
36	16⅝	17	23¾	16	14	17	34¾	47⅞	38¼	27½	2¾/16	½ x ¼	¾

Tolerance: ± 1/16"

## FAN DISCHARGES — VIEWED FROM DRIVE SIDE



Clockwise—angular discharges at 45°



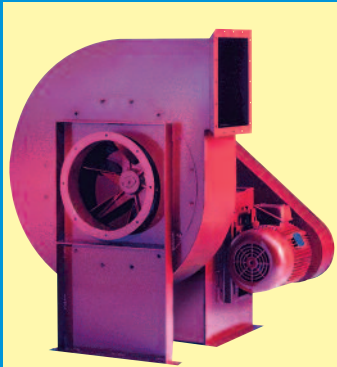
Counterclockwise—angular discharges at 45°

- ★ Sizes 22 through 36 may require removal of base angle and housing brace on outlet side to convert Bottom Horizontal or Down Blast discharge in the field. Size 30 and Size 36 with flanged outlet require a 1½" minimum shim on Bottom Horizontal discharge.
- † Down Blast fans with flanged outlets can only be equipped with a partial outlet flange so as to clear structures.

The New York Blower Company has a policy of continuous product development and reserves the right to change designs and specifications without notice.

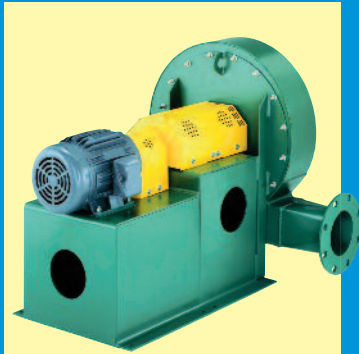
# COMPLETE SELECTION OF AIR-MOVING EQUIPMENT

The New York Blower Company offers thousands of different types, models, and sizes of air-moving equipment. Contact your nyb representative for assistance in identifying the best fan for your application.



## DUST/MATERIAL HANDLING

Wide range of duty available with unique fan lines capable of handling light dust to heavy material. Typical applications include dust-collection and high-pressure process along with material-conveying.



## AIR-HANDLING [CENTRIFUGAL]

Designed for clean to moderately dirty gas streams. Commercial and industrial HVAC, process cooling, light material-conveying, heat removal, and dryer exhaust are just a few of the numerous sample applications



## AIR-HANDLING [AXIAL]

For the ideal handling of clean to moderately dirty airstreams. Commercial and industrial HVAC, drying and cooling systems, fume extraction, and process-heat removal are typical applications.

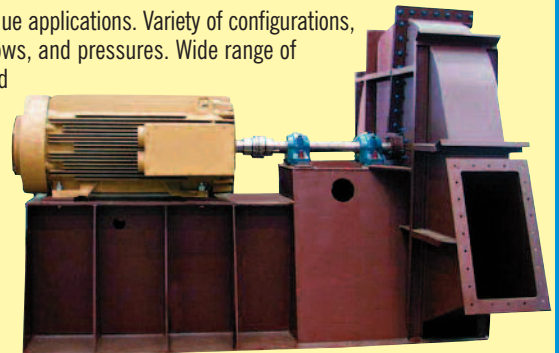


## FIBERGLASS REINFORCED PLASTIC [FRP]

Choice of performance and duty for corrosive gas streams. Applications include chemical process, wastewater treatment, laboratory hood exhaust, and tank aeration.

## CUSTOM PRODUCTS

Designed for unique applications. Variety of configurations, temperatures, flows, and pressures. Wide range of modifications and accessories are available to meet the most demanding specifications.



# Leading the industry forward since 1889



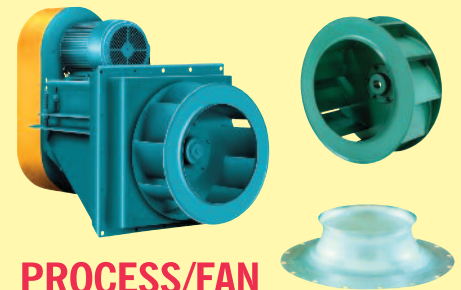
## ROOF VENTILATORS

Including both hooded and upblast ventilators, propeller fans, and centrifugal roof exhausters. These units are ideal for industrial, commercial, and institutional applications.



## HEATING PRODUCTS

Industrial-duty steam unit heaters with steam heating coils are available for facility heating and process-heat transfer.



## PROCESS/FAN COMPONENTS

Plug fans, plenum fans, wheels, inlet cones, and housings for a wide variety of OEM applications. Process/fan components are used in air-handling units, ovens, dryers, freezer tunnels, and filtration systems.