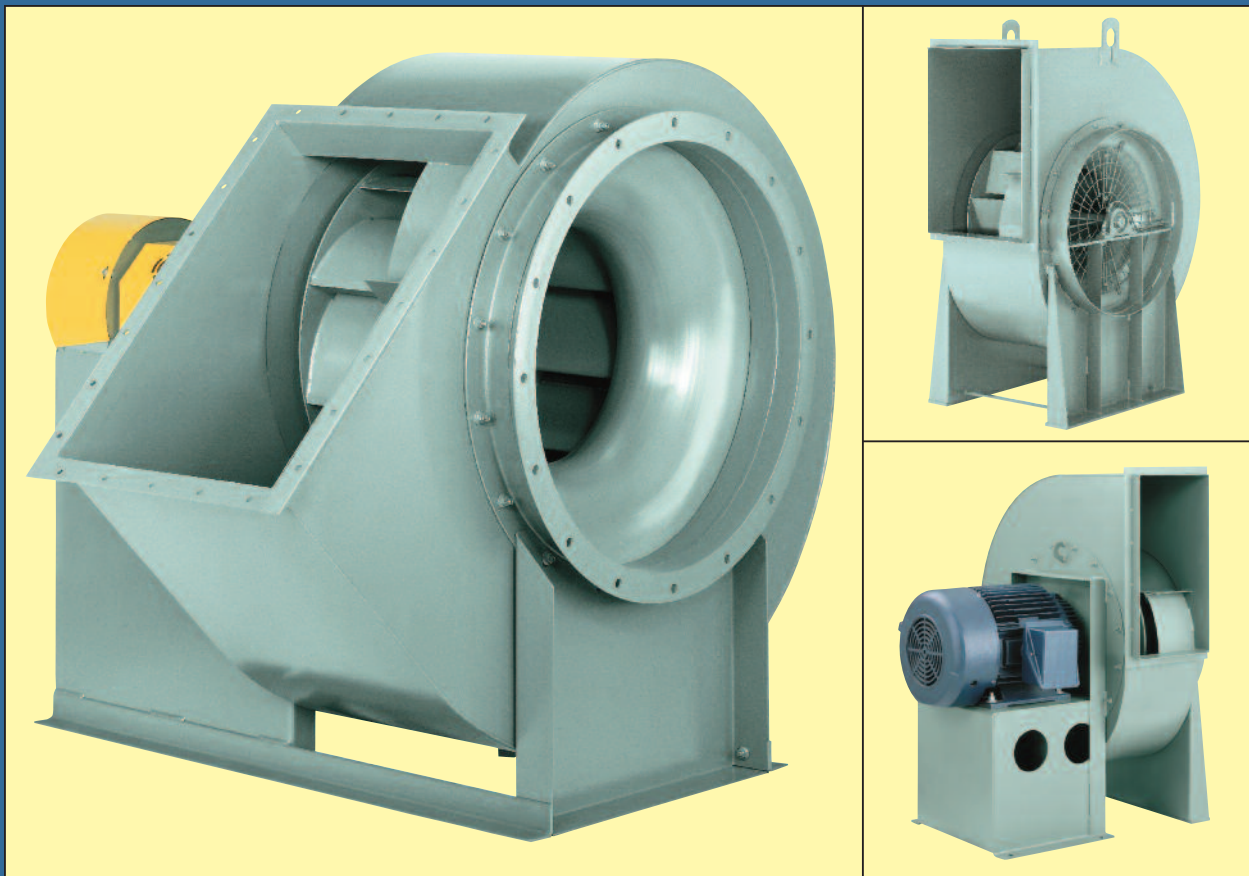


# SINGLE-WIDTH FANS WITH PLR WHEELS

- Capacities to 200,000 CFM
- PLR wheel choices
- Static pressures to 14"WG
- Class 1, 2, 3 construction



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Manufactured under license from



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# SINGLE-WIDTH FANS

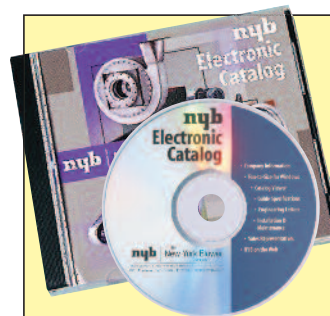
New York Blower's Single-Width Fans are designed for a wide range of applications from commercial-building ventilation to industrial dust-collection systems. Three classes of construction combined with three wheel designs provide the utmost in selection choice.

## DESIGN FEATURES

- Rugged PLR backward inclined wheels, Sizes 12"-73".\*
  - Capacities to 200,000 CFM.
  - Pressures to 14"WG.
  - Complete AMCA Class 1, 2, and 3 performance.\*
  - Efficiencies beyond 85%.
  - Temperatures to 650°F.
  - Choice of direct-drive [see page 6] or belt-drive [see page 7] arrangements.
  - Available in clockwise and counterclockwise rotations in any of seven standard discharge positions.
- \* See pages 6 and 7 for additional sizes and classes.

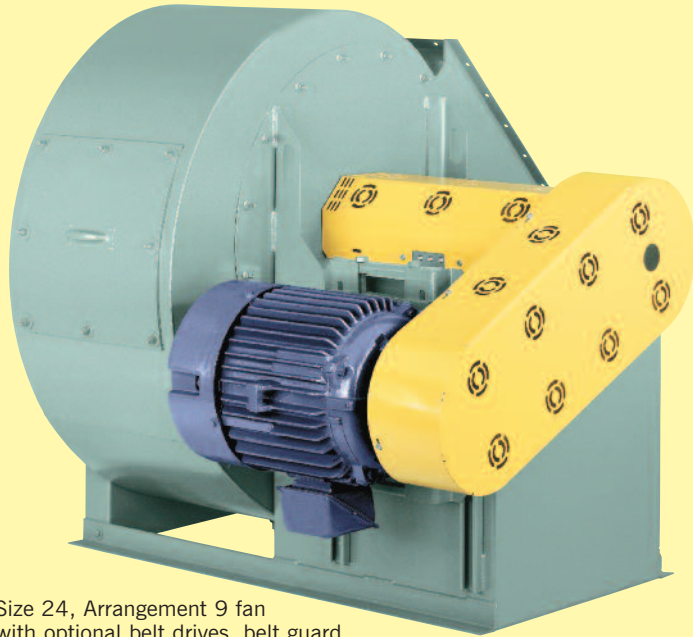
## CONSTRUCTION FEATURES

- Heavy-gauge welded components provide structural strength and durability.
- Continuously welded housings provide the strongest possible construction.
- Shafting is straightened to close-tolerance to minimize "run out" and ensure smooth operation.
- Lifting eyes are standard on all fans.
- Wheels are dynamically balanced and all fans are checked at the specified running speed.
- Bearings are selected to provide long service life through the entire operating range of the fan.

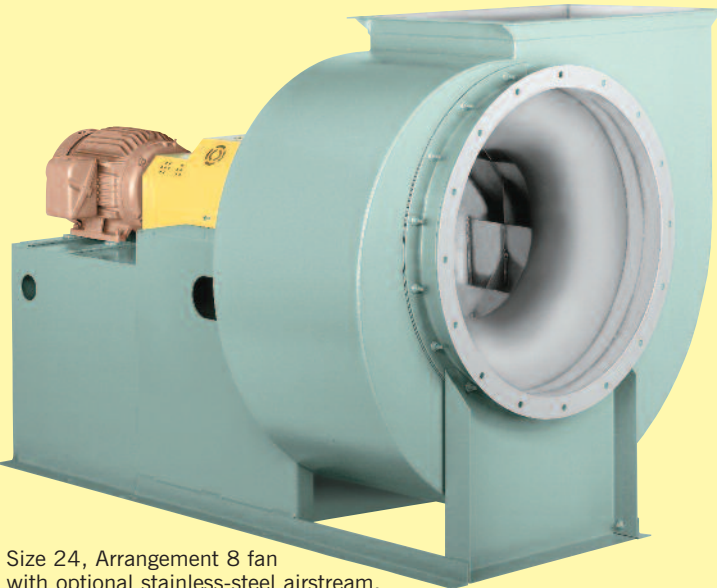


## ELECTRONIC CATALOG

A complete windows-based Electronic Catalog is now available on disk to assist in fan selection.



Size 24, Arrangement 9 fan with optional belt drives, belt guard, shaft and bearing guard, flanged outlet, bolted cleanout door, and motor.



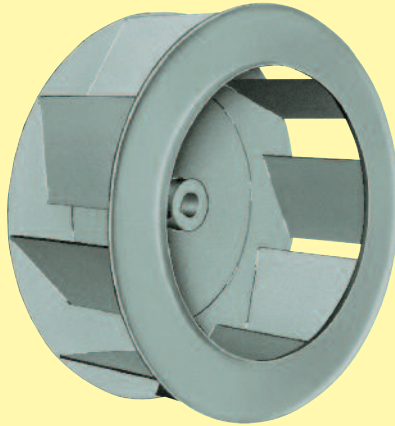
Size 24, Arrangement 8 fan with optional stainless-steel airstream, flanged inlet, flanged outlet, shaft and bearing guard, coupling, coupling guard, and motor.



Niagara Industrial Equipment Corp certifies that the Single Width PLR Fans shown on pages 10 through 12 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.

# PLR 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.



## PLR

### WHEEL DESIGN

Flat, single-thickness, backwardly inclined blades are suited to applications from clean air to those where dust and limited material is present in the airstream and airfoil shapes are not recommended due to material build-up.

### EFFICIENCY

Peak efficiency point is on the steeply rising portion of the pressure curve and vastly superior to forward curved and radial wheel designs.

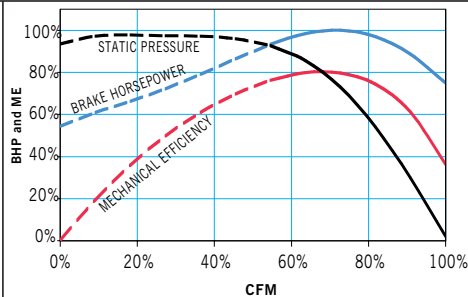
### SOUND

Sound levels are the lowest with the most efficient fan selections.

### CONSTRUCTION

Sizes 12 to 73 available in all-welded steel and also optional aluminum and stainless steel.

### PERFORMANCE

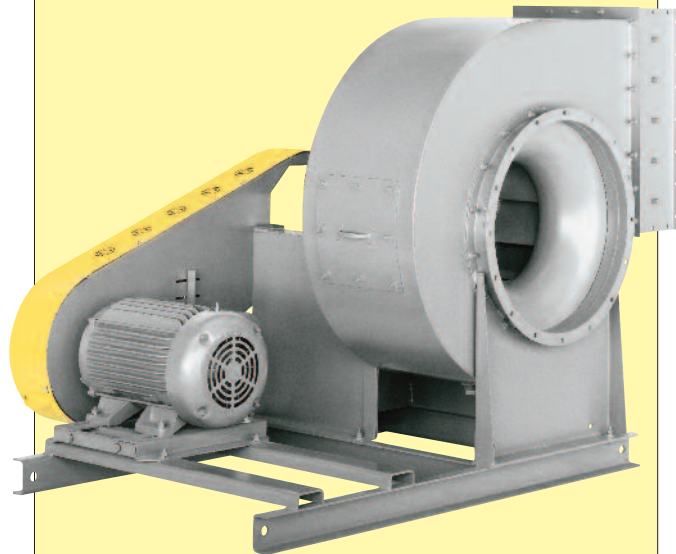




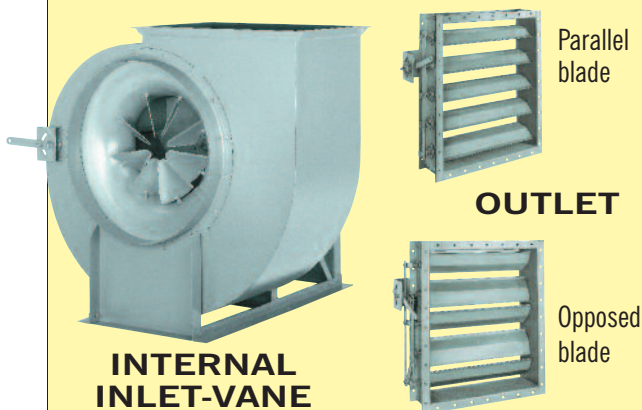
# ACCESSORIES



Size 24, Arrangement 9 fan with optional inlet box, flanged inlet and outlet, outlet damper, shaft and bearing guard, belt guard, bolted cleanout door, and motor.



Size 22, Arrangement 1 fan with optional unitary base, flanged inlet and outlet, discharge damper, shaft and bearing guard, bolted cleanout door, motor and slide base, and gray epoxy coating.



## FLANGES

**Outlet flange** angles welded flush with fan outlet and provided with holes...**inlet flange** angle ring welded to inlet collar and provided with holes...**companion flange** with matching hole pattern also available.

## DRAIN

Welded tank flange, 1" on sizes up to 15 ...1½" on Sizes 18 and larger, located at the lowest point in the housing scroll.



## SHAFT SEAL

Ceramic-felt seal elements are encased between metal backing plate and retaining disc...elements can be easily split for field installation and maintenance...lubricated lip seals are also available.



## UNITARY BASE

Structural steel or formed channel base provides common support for fan, motor, and drive components...also available with **spring-type** or **rubber-in-shear isolators**...flexible duct connections are recommended for use with isolation bases.

## INLET BOX

Minimizes entry losses normally associated with 90° turns at or near fan inlet...also available with parallel-blade damper for efficient volume control...refer to separate Catalog Sheet.

## CLEANOUT DOOR

Three types of gasketed doors are available...**quick-opening**: latch-type door swings open on hinges after turning cam levers...**bolted**: closely spaced studs keep door securely sealed...**raised bolted**: allows for insulation when desired, door raised 2" from the fan housing.

## SAFETY EQUIPMENT

Belt guards, shaft and bearing guards, coupling guards, inlet guards, and outlet guards are available.

## DAMPERS

**Internal inlet-vane**—available in Sizes 18 and larger...allows smooth control in systems that require efficient dampening of airflow...damper is an integral part of the fan inlet cone providing considerable space savings...quick-opening cleanout door is furnished that will provide easy access to linkage components...external inlet-vane dampers are also available. See separate Engineering Supplement for detailed performance characteristics.

**Parallel-blade and opposed-blade outlet**—available for volume-control applications at temperatures to 650°F. See Catalog Sheet and Engineering Letter.

# MODIFICATIONS

## HANDLING CORROSIVES

Protective coatings, special alloys, and FRP construction are available to combat corrosion problems.

**Special 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.

**Alternate-material construction**—Single-Width Fans can be constructed of aluminum or various stainless steels.

## HEAT-FAN CONSTRUCTION

Arrangement 1, 8, and 9 fans can be constructed for elevated-temperature operation with the addition of shaft cooler and guard and high-temperature paint for 650°F. maximum airstream temperature. Arrangement 9 fans are also furnished with motor heat shield. If optional shaft seal is selected, a recessed cone is furnished. Note that the maximum safe wheel speeds decrease as airstream temperatures increase...see Chart I on page 9.

## SPARK-RESISTANT CONSTRUCTION [SRC]

Intended to minimize the potential for any two or more fan components to generate sparks within the airstream by rubbing or striking during operation.

The following types are available:

### AMCA A [AIRSTREAM] SRC

To include all airstream parts constructed of a spark-resistant alloy...maximum temperature: 200°F.

### AMCA B [WHEEL] SRC

To include the fan wheel constructed of a spark-resistant alloy and a buffer plate around the housing shaft-hole opening...maximum temperature: 200°F.

### AMCA C [BUFFER] SRC

To include a spark-resistant alloy buffer affixed to the housing interior adjacent to the wheel backplate, a spark-resistant alloy inlet cone, and a buffer plate around the housing shaft-hole opening...maximum temperature: 650°F

## ALL TYPES SRC

Fan is to be so constructed such that no bearings, drive components, or electrical apparatus are located in the airstream...the user must electrically ground all fan and system components.

Refer to Engineering Letter 15 for the full meaning and limits of spark-resistant construction.

## FRP FANS

**nyb** manufactures a complete line of fiberglass-reinforced plastic fans for applications requiring the handling of corrosive fumes...see separate bulletins.

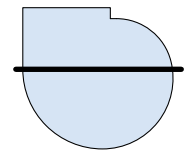


## SPLIT-HOUSING CONSTRUCTION

Available with standard construction for:  
Sizes 40-73 Class I and II  
Sizes 36-73 Class III  
Sizes 36-73 Class I, II, and III Arrangement 3

### TYPE A

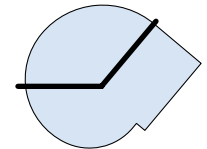
**Bottom Horizontal  
Up Blast  
Down Blast**



Horizontal split allows removal of top section without disturbing inlet connection...outlet connection must be broken on Up Blast fans only.

### TYPE B

**Top Horizontal  
Top Angular Down  
Bottom Angular Up  
Top Angular Up**



Split allows removal of pie-shaped section without disturbing inlet or outlet connections.

## SAFETY EQUIPMENT

Safety accessories are available from **nyb**, but 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.

# DIRECT-DRIVE ARRANGEMENTS

See Catalog Sheet CS 135, Arrangement 4 fans, and Bulletin 161, Class 4 Fans, for additional information on these models including performance, dimensions, and limitations.

## APPLICATION CONSIDERATIONS

As compared to belt-drive fan arrangements, direct-drive Arrangement 4 fans of all styles, where the fan wheel mounts directly onto the motor shaft, are more compact, require less maintenance, and generally have a lower first cost. However, relative to belt-drive fans, they are limited in application, size, available features, and the ability to adjust performance. Direct-drive Arrangement 8 fans offer much of the flexibility of belt-drive fans and are even preferred in systems that require large volumes of air and are over 250-300 HP due to drive limitations.

A major objection to direct-drive arrangements in the past was the inability to adjust fan speed if system requirements changed. With the advent of variable frequency drives (VFDs) the speed, and therefore performance, of direct-drive fans can now be adjusted to meet varying requirements. See page 8 for additional fan-control information. Given the variety of operating speeds available, choices in wheel width, and its effect on wheel safe speed limits, the only cost-effective method for selecting today's direct-drive fans is software selection programs such as New York Blower's Electronic Catalog.

## SIZE/ARRANGEMENT AVAILABILITY

Wheel	Class	Arrangement				
		4	4-F	4-H	4-V	8
PLR	1	-	-	-	-	12-73
	2	10-33	10-33	10-22	10-33	12-73
	3	16-33	16-33	16-22	16-33	18-73
	4	20-27	20-27	20-22	20-27	18-73

Wheel diameter in inches.

## ELECTRONIC CATALOG

Fan-selection program corrects for altitude, temperature, rarefaction, adjusts maximum safe speed for wheel width, and generates performance curves.

### ARRANGEMENT

## 4

Traditional arrangement utilizing fan pedestal and foot-mounted motor. Seven discharge positions are available to meet requirements.

Max. temperature: 180°F.

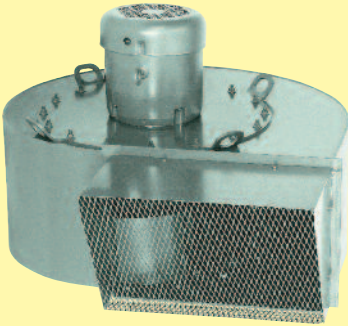


### ARRANGEMENT

## 4-F

Most compact arrangement with motor mounting directly to housing and fan flush-mounted to the customer's mating surface.

Max. temperature: 120°F.



### ARRANGEMENT

## 4-H

Designed for mounting so the fan shaft is horizontal. Motor mounts directly to the fan housing. Fan is flange-mounted to the customer's mating surface.

Max. temperature: 120°F.



### ARRANGEMENT

## 4-V

Similar to the 4-F. Designed for mounting so the fan shaft is vertical. Motor mounts directly to fan housing. Fan is flange-mounted to the customer's mating surface.

Max. temperature: 120°F.

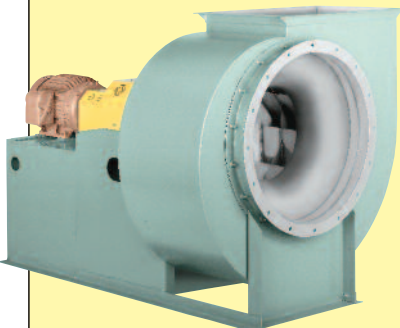


### ARRANGEMENT

## 8

Integral pedestal furnished for the motor and coupling. Most flexible of the direct-drive arrangements allowing for larger motors, fan sizes, and accessories.

Standard max. temp.: 300°F.  
Heat fan max. temp.: 650°F.





# BELT-DRIVE ARRANGEMENTS

See Bulletin 051, General Purpose Packaged Fans, for additional information on Arrangement 10 models including performance, dimensions, and limitations.

## APPLICATION CONSIDERATIONS

As compared to direct-drive fan arrangements, belt-drive fans, where the fan wheel is supported by a shaft and bearings and driven by belts, allow for a wider range of sizes and applications, and offer a greater selection of accessories and modifications. However, relative to direct-drive fans, they have a larger footprint for a given fan size and have a higher first cost. Without additional controls, belt-drive fan performance can be easily altered in the field by changing sheaves and belts. Because of the numerous choices available between belt-drive and direct-drive arrangements, it is recommended that you consult your New York Blower representative for selection guidelines.

## SIZE/ARRANGEMENT AVAILABILITY

Wheel	Class	Arrangement			
		1	3	9	10
PLR	1	12-73	24-73	12-73	-
	2	12-73	24-73	12-73	12-36
	3	18-73	27-73	18-73	-
	4	18-73	30-73	-	-

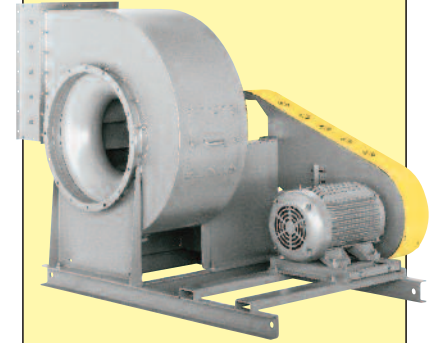
Wheel diameter in inches.

### ARRANGEMENT

# 1

Overhung wheel keeps bearings out of airstream. Motor mounts independently from fan. Greatest flexibility.

Standard max. temp.: 300°F.\*  
Heat fan max. temp.: 650°F.\*

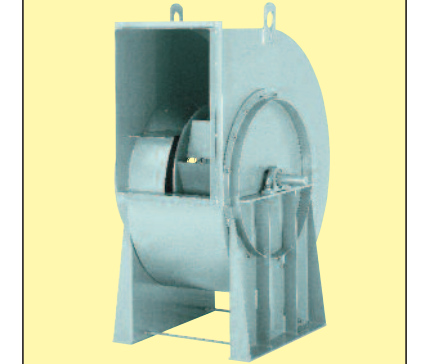


### ARRANGEMENT

# 3

Wheel supported between bearings is compact and suitable for clean, dry-air service.

Max. temperature: 120°F.



### ARRANGEMENT

# 9

Similar to Arrangement 1 but with motor mounted on side of fan pedestal reducing overall size and field-installation costs.

Standard max. temp.: 300°F.\*  
Heat fan max. temp.: 650°F.\*



### ARRANGEMENT

# 10

Compact, packaged design with motor mounted within the fan pedestal. Minimum field installation labor required.

Standard max. temp.: 200°F.\*  
Heat fan max. temp.: 650°F.\*



\*Limit for Sizes 12 and 15 fans with AcustaFoil wheels is 200°F.; heat-fan construction not available.

## V-BELT DRIVES

In the lower horsepower ranges, V-belt drive selection is relatively simple, but as horsepower requirements increase, V-belt drive selection becomes more complicated and requires more consideration of the drive's effects on fan and motor bearings.

A few general recommendations to remember are:

1. 3600 RPM motors are not generally recommended for belt-drive above 20 HP.
2. 1800 RPM motors are not generally recommended for belt-drive above 300 HP.
3. When motors 200 HP and larger are to be used with belt-drive fans, **nyb** requires that the motor manufacturer:
  - a. Recommend the minimum diameter motor sheave that may be used.
  - b. Recommend the maximum motor-sheave width that may be used.

With the above information from the motor manufacturer, the drive may be selected.

# FAN ENGINEERING AND SELECTION

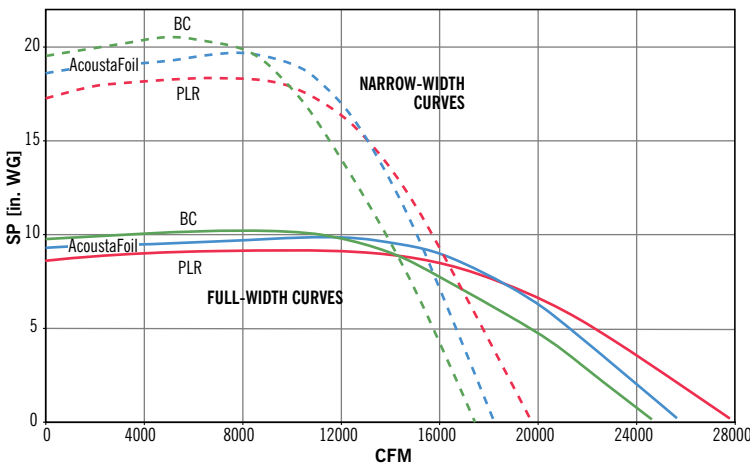
## GENERAL

Fans are an integral part of the systems in which they are applied. As such, New York Blower sales representatives work closely with design engineers in assessing requirements and meeting critical performance and dimensional specifications. Because of the wide variety of choices available, it is recommended that selection be made using New York Blower's Electronic Catalog software and that a New York Blower sales representative assist in optimizing the final selection.

## WHEEL SPEED VS. WIDTH

A major component in the determination of wheel maximum safe speed is blade strength. Narrower wheels are inherently stronger, permitting higher wheel maximum safe speeds. Using a variety of engineering tools such as a finite element analysis, New York Blower can now provide performance selections previously unavailable. For example, the direct-drive performance curves shown here illustrate maximum performance capabilities with full-width wheels [solid lines] and maximum performance capabilities with narrow-width wheels [dotted lines] at 70°F. Note that the pressure generating capability approximately doubles. Final selection of direct-drive fans can only be optimized using **nyb** Electronic Catalog software.

### SIZE 30 CLASS II FAN PERFORMANCE



## HEAT FANS

Fans handling hot airstreams must be kept in operation after system shutdown until the airstream cools below 200°F. to prevent damage to the fan. The fan wheel or shaft might otherwise distort due to "heat-soaking." The shaft cooler is only effective while rotating. Burners should be located so that the air is thoroughly mixed before entering the fan inlet. Improper placement could cause hot spots on the fan wheel which exceed maximum design temperatures. Contact **nyb** when the application involves temperature changes greater than 20°F per minute.

Refer to the selection example on page 9 for the effect of temperature on the maximum safe speed of wheels and the temperature derate factors in Chart I.

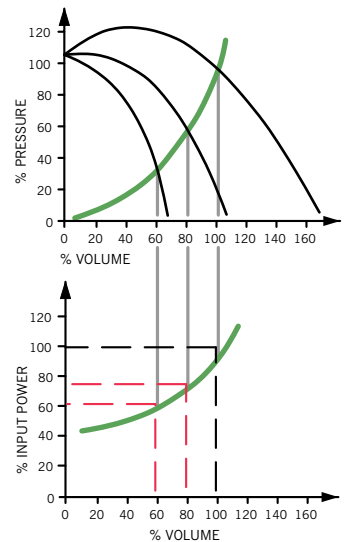
## CAPACITY CONTROL

The rising cost of energy requires that air-handling systems be operated efficiently at less than maximum design airflow. The high efficiency and inherent stability of the AcoustaFoil wheel is particularly well-suited to variable airflow systems. The AcoustaFoil wheel design ensures not only maximum operating efficiency at design CFM but also at reduced airflow regardless of the control method applied. This higher efficiency allows quieter operation throughout the modulation range.

The New York Blower Company's nationwide network of trained sales representatives is familiar with each of these control alternatives and can offer further assistance in selecting the best control for a particular application.

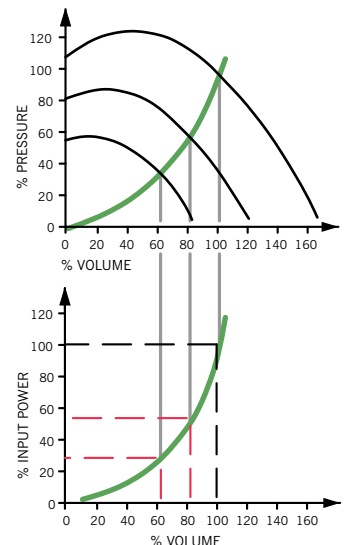
### INLET-VANE DAMPER CONTROL

Inlet-vane dampers affect the fan's output by spinning the air in the direction of wheel rotation. With this pre-spin, the wheel cannot develop its full output, yielding a reduced CFM at reduced horsepower. Each damper setting creates new pressure and horsepower curves. With inlet-vane dampers, reduced airflow always results in reduced horsepower.



### VARIABLE FREQUENCY MOTOR SPEED CONTROL

Variable frequency motor speed controllers provide energy savings by directly controlling fan speed. From the fan laws, CFM varies directly with the change in fan speed and horsepower varies by the change in fan speed cubed. For example, a 20% reduction in fan speed yields a 20% reduction in airflow and a 49% reduction in BHP. Controllers must have lockouts to prevent operation beyond the maximum safe speed of the fan.





# How to Use Performance Tables

For a given fan size, wheel design, CFM, and static pressure, performance tables can be used to obtain outlet velocity, fan RPM, and BHP. If capacities are at conditions other 70°F., sea level, or standard density [.075 lb./cu.ft.], correction factors must be applied to static pressure and BHP.

PROCEDURES	STEPS	EXAMPLE: A fan is required for 13,000 CFM at 4"WG at 600°F. and sea level.
If conditions other than standard are involved, correct static pressure for actual altitude and temperature using Charts II and III.	1	Chart II gives a 2.00 factor for 600°F. Corrected SP is 4"WG x 2.00 = 8"WG at 70°F. Select fan from performance tables for 13,000 CFM at 8"WG.
Select size, wheel type, RPM, and BHP of fan from performance table.	2	A Size 30 with AcoustaFoil wheel is selected for 13,000 CFM at 8"WG at 1650 RPM and 20.5 BHP.
Check maximum safe speed of fan at operating temperature as shown in the performance tables and Chart I.	3	From the performance table and Chart I, the maximum safe speed of a Size 30 fan with Class 2 AcoustaFoil wheel at 600°F. is 1660 RPM [1805 x .92]. Fan is satisfactory for operation at 600°F.
Determine actual performance at operating conditions by correcting SP and BHP.	4	Actual performance: 13,000 CFM at 4"WG [8" ÷ 2.00] at 1650 RPM at 10.3 BHP [20.5 ÷ 2] at 600°F.

## PERFORMANCE CORRECTION FACTORS

Fan performance is based on actual feet per minute [ACFM] at the fan inlet at standard density [.075 lbs./ft.<sup>3</sup>] and static pressure at the fan outlet. Static pressure capabilities are shown in inches water gauge ["WG].

Air-density corrections are necessary for proper selection when air density varies from the standard .075 lbs./ft.<sup>3</sup> at 70°F. at sea level. Multiply the required static pressure at operating conditions by the appropriate factors in Charts II and III to obtain the corrected static pressure for standard conditions. Pressure and BHP will be reduced at conditions by the inverse of these factors. Multiply one factor by the other if temperature and altitude are non-standard. For example: if the installation is located at an altitude of 4000 feet and the gas temperature is 300°F. the correction factor is 1.66 [1.16 x 1.43]. Temperature and altitude correction is made automatically using New York Blower's Electronic Catalog software.

## MAXIMUM SAFE SPEED INFORMATION

Each performance table on pages 10-17 includes the maximum safe speed of the standard wheel at 70°F. Fan operation at temperatures above 70°F. primarily affects the strength of rotating components, which declines as temperature increases. When alloy construction is specified or when temperatures are involved, multiply the appropriate safe operating speed shown in the performance table by the factor shown in Chart I. Note that Sizes 12 and 15 AcoustaFoil wheels are aluminum as standard. Also that the maximum safe speeds apply only to wheels operated at or below 70°F. and are free of material build-up, corrosion, or wear. See discussion on page 8 regarding direct-drive fans and maximum safe wheel speeds for wheels that are narrow-width. Maximum wheel safe speeds are computed automatically using New York Blower's Electronic Catalog software.

## CHART I

TEMPERATURE CORRECTION FACTORS FOR WHEEL OPERATING SPEEDS

Temp. °F.	Wheel material				
	Steel	Aluminum	Stainless 304*	Stainless 316*	Stainless 347*
-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

\*PLR Fans only.

## CHART II

TEMPERATURE CORRECTION FACTORS (°F.)

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

NOTE: When more than one correction is made, the factors are combined by multiplying factors.

## CHART III

CORRECTION FACTORS FOR ALTITUDE [feet above sea level]

Altitude	Factor
0	1.00
500	1.02
1000	1.04
1500	1.06
2000	1.08
2500	1.10
3000	1.12
3500	1.14
4000	1.16
4500	1.18
5000	1.20
5500	1.22
6000	1.25
7000	1.30
8000	1.35
9000	1.40
10000	1.45

# PERFORMANCE FOR SINGLE-WIDTH FANS WITH **PLR** WHEELS

SIZE <b>12</b>	CFM	OV	1"SP		1½"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	RPM	BHP
			1000	1170	1618	0.55	1840	0.66	2035	0.78	2382	1.05	2706	1.37	3018	1.72	3324	2.12				
<b>Max. safe speeds</b>	1300	1520	1837	0.66	2034	0.79	2212	0.93	2538	1.24	2822	1.57	3079	1.93	3327	2.31	3575	2.78	3814	3.29		
<b>Class 1=3280 RPM</b>	1600	1871	2080	0.81	2255	0.96	2418	1.13	2719	1.48	2989	1.85	3230	2.23	3462	2.67	3674	3.16	3875	3.67		
<b>Class 2=4270 RPM</b>	1900	2222	2340	1.01	2499	1.19	2645	1.37	2921	1.75	3167	2.16	3404	2.61	3620	3.12	3826	3.65	4026	4.22		
	2100	2456	2521	1.18	2666	1.37	2808	1.57	3066	1.98	3309	2.42	3529	2.92	3734	3.45	3938	4.03	4128	4.60		
	2400	2807	2802	1.48	2930	1.69	3058	1.92	3300	2.38	3523	2.89	3728	3.44	3930	4.04	4125	4.66				
	2700	3158	3089	1.85	3205	2.09	3320	2.33	3544	2.89	3749	3.46	3952	4.08	4141	4.71						
	3000	3509	3382	2.30	3488	2.57	3594	2.88	3797	3.50	3991	4.14	4186	4.82								

SIZE <b>15</b>	CFM	OV	1"SP		1½"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	RPM	BHP
			1400	1085	1285	0.64	1472	0.81	1634	0.98	1924	1.38	2200	1.84	2475	2.39						
<b>Max. safe speeds</b>	1800	1395	1440	0.78	1606	0.97	1755	1.17	2028	1.61	2265	2.09	2484	2.63	2705	3.31	2914	4.02	3128	4.82		
<b>Class 1=2580 RPM</b>	2200	1705	1610	0.96	1762	1.18	1900	1.40	2149	1.89	2380	2.43	2582	3.05	2774	3.74	2954	4.45	3135	5.24		
<b>Class 2=3360 RPM</b>	2600	2016	1792	1.19	1931	1.44	2055	1.69	2291	2.24	2499	2.85	2697	3.55	2880	4.28	3053	5.04	3216	5.85		
	3000	2326	1984	1.49	2109	1.77	2227	2.05	2446	2.67	2645	3.39	2826	4.13	3004	4.93	3173	5.77	3326	6.59		
	3400	2636	2186	1.86	2296	2.16	2404	2.48	2607	3.21	2799	4.00	2972	4.81	3136	5.64	3296	6.53				
	3800	2946	2393	2.30	2494	2.66	2594	3.06	2782	3.87	2960	4.71	3123	5.56	3287	6.50						
	4200	3256	2603	2.89	2694	3.30	2785	3.73	2965	4.64	3131	5.54	3290	6.47								

SIZE <b>18</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			2000	1042	926	0.69	1255	1.13	1548	1.69	1794	2.32										
<b>Max. safe speeds</b>	2900	1510	1087	0.93	1317	1.41	1545	2.00	1778	2.72												
<b>Class 1=2100 RPM</b>	3800	1979	1281	1.30	1476	1.89	1653	2.52	1824	3.31	2179	5.21	2516	7.35								
<b>Class 2=2735 RPM</b>	4700	2448	1495	1.83	1663	2.54	1820	3.40	1964	4.26	2245	6.18	2526	8.41	2811	10.9						
<b>Class 3=3525 RPM</b>	5600	2917	1716	2.54	1863	3.47	2003	4.46	2132	5.45	2379	7.56	2613	9.82	2843	12.3	3082	15.1	3322	18.1		
	6500	3385	1944	3.60	2077	4.67	2201	5.77	2320	6.92	2546	9.30	2749	11.7	2947	14.2	3153	17.0	3355	20.1		
	7400	3854	2177	4.97	2298	6.18	2410	7.40	2518	8.67	2721	11.3	2916	14.0	3099	16.7	3272	19.5	3450	22.6		
	8300	4323	2411	6.66	2524	8.01	2629	9.40	2727	10.8	2916	13.7	3097	16.7	3268	19.7	3434	22.8				

SIZE <b>22</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			3000	1053	794	0.88	1066	1.63	1300	2.64	1505	4.00										
<b>Max. safe speeds</b>	4300	1509	920	1.21	1126	1.96	1325	2.98	1511	4.30	1839	7.48										
<b>Class 1=1770 RPM</b>	5600	1965	1085	1.74	1249	2.58	1405	3.67	1559	4.95	1854	8.05	2124	11.8	2377	16.2	2607	21.0				
<b>Class 2=2305 RPM</b>	6900	2421	1265	2.51	1402	3.60	1534	4.79	1659	6.06	1916	9.19	2155	12.8	2393	17.1	2610	21.9	2811	26.9		
<b>Class 3=2900 RPM</b>	8200	2877	1453	3.70	1574	4.97	1685	6.26	1794	7.64	2012	10.8	2226	14.4	2434	18.6	2635	23.2	2825	28.2		
	9500	3333	1643	5.23	1754	6.73	1856	8.21	1949	9.68	2137	12.9	2328	16.7	2507	20.7	2688	25.3	2866	30.3		
	10800	3789	1835	7.15	1940	8.92	2030	10.5	2118	12.2	2288	15.8	2450	19.5	2615	23.7	2779	28.3				
	12100	4246	2030	9.52	2127	11.5	2214	13.5	2294	15.3	2448	19.1	2595	23.1	2746	27.5	2893	32.1				

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 apertures (accessories).

# PERFORMANCE FOR SINGLE-WIDTH FANS WITH **PLR** WHEELS

SIZE <b>24</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
<b>Max. safe speeds</b> Class 1=1605 RPM Class 2=2090 RPM Class 3=2635 RPM	3000	870	694	0.91	964	1.81	1190	3.09													
	5000	1449	820	1.34	1009	2.22	1194	3.49	1367	5.07	1677	8.94									
	7000	2029	1008	2.16	1152	3.27	1290	4.59	1426	6.14	1688	9.83	1930	14.2	2155	19.3	2371	25.2			
	9000	2609	1217	3.59	1335	4.97	1447	6.46	1558	8.11	1767	11.7	1975	16.1	2180	21.2	2373	26.8	2553	32.8	
	11000	3188	1433	5.67	1538	7.40	1634	9.12	1725	10.9	1904	14.8	2079	19.2	2253	24.2	2424	29.7	2583	35.5	
	13000	3768	1654	8.50	1750	10.6	1835	12.7	1916	14.7	2069	18.9	2223	23.6	2370	28.5	2515	33.9			
	15000	4348	1878	12.2	1967	14.8	2045	17.1	2118	19.4	2256	24.1	2388	29.0	2521	34.4					
17000	4928	2104	16.9	2186	19.9	2260	22.7	2326	25.3	2453	30.5	2574	35.9								

SIZE <b>27</b>	CFM	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP		
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
<b>Max. safe speeds</b> Class 1=1420 RPM Class 2=1850 RPM Class 3=2325 RPM	4000	634	0.93	871	2.10	1063	3.51	1225	5.11											
	7000	856	2.13	992	3.48	1103	4.88	1236	6.64	1508	11.0	1738	15.8	1940	21.0					
	9000	1015	3.43	1141	5.13	1246	6.86	1338	8.62	1515	12.6	1744	17.8	1947	23.5	2130	29.6	2298	36.0	
	11000	1183	5.28	1296	7.30	1396	9.39	1484	11.5	1637	15.8	1772	20.3	1953	26.2	2136	32.7	2305	39.6	
	13000	1355	7.81	1458	10.2	1550	12.6	1634	15.0	1782	20.0	1912	25.1	2029	30.3	2143	35.9	2311	43.3	
	15000	1532	11.1	1626	13.8	1711	16.5	1789	19.3	1932	25.1	2057	30.8	2171	36.6	2276	42.6			
	17000	1711	15.2	1797	18.3	1876	21.4	1949	24.5	2084	30.9	2206	37.5	2317	44.0	2419	50.5			
	19000	1893	20.4	1971	23.9	2044	27.3	2113	30.7	2241	37.7	2358	44.9	2466	52.3					

SIZE <b>30</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
<b>Max. safe speeds</b> Class 1=1280 RPM Class 2=1665 RPM Class 3=2095 RPM	7000	1354	617	1.57	793	3.05	953	4.84	1098	6.94										
	9000	1741	701	2.31	842	3.94	978	5.82	1110	8.03	1347	13.1	1553	18.9						
	11000	2128	796	3.33	914	5.15	1031	7.22	1143	9.47	1360	14.7	1554	20.6	1739	27.5				
	13000	2515	900	4.71	1003	6.78	1102	9.01	1200	11.4	1389	16.8	1569	22.9	1742	29.8	1909	37.5	2054	45.3
	15000	2901	1007	6.46	1099	8.79	1185	11.2	1272	13.8	1440	19.5	1602	25.8	1764	32.9	1920	40.8	2059	48.6
	17000	3288	1116	8.65	1200	11.3	1279	14.0	1356	16.8	1506	22.8	1652	29.4	1798	36.6	1937	44.3	2077	52.8
	19000	3675	1226	11.3	1305	14.3	1378	17.3	1447	20.3	1583	26.8	1715	33.6	1847	41.1	1979	49.2		
	21000	4062	1337	14.5	1413	17.9	1479	21.1	1543	24.4	1666	31.2	1790	38.6	1912	46.4	2031	54.7		

SIZE <b>33</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
<b>Max. safe speeds</b> Class 1=1175 RPM Class 2=1515 RPM Class 3=1905 RPM	7000	1118	527	1.49	709	3.19	862	5.26	996	7.69										
	10000	1597	607	2.47	747	4.28	881	6.51	1003	9.07	1223	15.1								
	13000	2077	711	3.99	823	6.09	930	8.41	1036	11.1	1234	17.3	1410	24.3	1576	32.4	1730	41.3	1865	50.3
	16000	2556	827	6.14	920	8.65	1010	11.3	1099	14.1	1270	20.5	1433	27.8	1589	36.2	1732	45.1	1870	55.0
	19000	3035	948	9.00	1029	12.0	1106	15.0	1182	18.1	1331	24.9	1475	32.4	1614	40.7	1745	49.6	1878	59.9
	21000	3355	1030	11.3	1105	14.8	1177	18.1	1245	21.4	1381	28.4	1514	36.2	1647	44.9	1767	53.7	1894	64.0
	24000	3834	1156	15.6	1224	19.8	1287	23.6	1350	27.3	1469	34.9	1588	43.2	1703	51.9	1817	61.2		
	27000	4313	1283	20.9	1345	25.7	1404	30.2	1460	34.4	1568	42.8	1675	51.6	1781	60.9	1882	70.5		

SIZE <b>36</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
<b>Max. safe speeds</b> Class 1=1045 RPM Class 2=1360 RPM Class 3=1715 RPM	10000	1305	503	2.16	658	4.45	797	7.26	915	10.4	1119	17.7	1290	26.1	1445	35.8	1581	45.9	1704	56.7
	14000	1828	595	3.51	709	6.05	821	9.02	930	12.5	1127	20.4	1297	29.5	1444	39.2	1582	50.0	1714	62.1
	18000	2350	707	5.59	797	8.55	885	11.8	974	15.5	1145	23.8	1308	33.4	1454	43.9	1585	54.9		
	22000	2872	828	8.56	902	12.0	973	15.6	1047	19.6	1192	28.3	1333	38.1	1471	49.2	1599	61.0		
	26000	3394	952	12.5	1016	16.5	1078	20.6	1139	24.9	1263	34.3	1384	44.5	1505	55.8	1624	68.2		
	30000	3916	1080	17.8	1136	22.3	1190	26.9	1244	31.7	1352	41.9	1458	52.7	1562	64.3	1669	77.1		
	34000	4439	1209	24.4	1260	29.5	1309	34.7	1357	40.0	1450	50.8	1544	62.5	1637	74.7				
	38000	4961	1340	32.7	1386	38.4	1430	44.2	1473	49.9	1559	61.9	1644	74.4						

SIZE <b>40</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
<b>Max. safe speeds</b> Class 1= 950 RPM Class 2=1235 RPM Class 3=1555 RPM	12000	1289	450	2.50	587	5.05	711	8.18	820	11.8										
	16000	1719	519	3.81	623	6.58	725	9.86	824	13.6	1005	22.5	1160	32.6						
	20000	2148	601	5.68	684	8.82	769	12.4	851	16.3	1011	25.4	1163	36.2	1295	47.5	1424	60.7		
	24000	2578	690	8.26	761	11.9	830	15.7	900	20.0	1039	29.5	1172	40.2	1303	52.5	1419	65.2		
	28000	3008	781	11.6	844	15.8	905	20.1	964	24.6	1081	34.5	1200	45.7	1318	58.2	1427	71.1	1538	85.8
	32000	3437	875	15.8	932	20.6	985	25.4	1038	30.4	1140	40.9	1246	52.7	1350	65.4	1451	78.9	1554	93.9
	36000	3867	969	21.0	1021	26.5	1071	31.9	1117	37.2	1212	48.9	1303	60.9	1394	73.9	1487	88.1		
	40000	4296	1065	27.3	1113	33.4	1158	39.5	1203	45.6	1286	57.7	1370	70.8	1452	84.3	1537	99.1		

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 SINGLE-WIDTH FANS WITH **PLR** WHEELS

SIZE <b>44</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			14000	1229	400	2.90	527	5.95	641	9.75	742	14.2	907	27.7	1049	40.2						
<b>Max. safe speeds</b>	20000	1756	476	4.87	568	8.34	659	12.3	747	17.0	915	31.5	1050	44.6	1171	58.8	1286	74.7				
Class 1= 880 RPM	25000	2195	552	7.34	626	11.2	701	15.7	775	20.6	942	36.8	1063	50.2	1176	64.7	1289	81.6	1389	98.6		
Class 2=1120 RPM	30000	2634	634	10.7	698	15.3	759	20.1	821	25.3	985	43.5	1092	57.5	1195	72.5	1296	89.2	1396	107		
Class 3=1410 RPM	35000	3073	720	15.1	775	20.3	829	25.7	881	31.3	1043	52.1	1134	66.1	1227	82.1	1318	98.9	1406	117		
	40000	3512	806	20.6	857	26.7	905	32.8	951	39.0	1107	61.9	1190	77.3	1270	93.1	1355	111				
	45000	3951	894	27.5	941	34.3	984	41.1	1027	48.1	1179	73.8	1253	90.0	1328	107	1399	125				
	50000	4390	983	35.9	1026	43.6	1066	51.1	1105	58.7												

SIZE <b>49</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			17000	1232	363	3.52	479	7.22	584	11.9	676	17.3										
<b>Max. safe speeds</b>	24000	1739	429	5.78	514	9.97	598	14.9	679	20.6	826	33.7										
Class 1= 780 RPM	30000	2174	498	8.73	566	13.5	634	18.8	701	24.6	831	38.0	953	53.7	1066	71.3	1167	90.0				
Class 2=1020 RPM	36000	2609	572	12.7	630	18.2	686	24.0	742	30.1	855	44.4	962	60.1	1071	78.7	1168	97.9	1261	119		
Class 3=1280 RPM	42000	3043	648	17.8	699	24.1	748	30.7	796	37.4	893	52.4	990	69.1	1083	87.0	1177	108	1266	129		
	48000	3478	726	24.4	772	31.6	816	39.0	858	46.3	942	62.1	1026	79.3	1111	98.2	1195	119	1277	141		
	54000	3913	805	32.5	848	40.8	887	48.9	925	56.9	1001	74.3	1076	92.5	1151	112	1227	133				
	60000	4348	885	42.4	924	51.6	961	60.7	996	69.7	1065	88.3	1132	107	1199	128	1268	150				

SIZE <b>54</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			20000	1182	324	4.13	432	8.64	526	14.2	610	20.9										
<b>Max. safe speeds</b>	30000	1773	392	7.33	467	12.5	542	18.5	612	25.3	744	41.4	862	60.3								
Class 1= 710 RPM	40000	2364	479	12.7	535	18.8	592	25.5	648	33.0	760	50.0	863	68.9	964	91.2	1052	114				
Class 2= 920 RPM	50000	2955	571	20.5	619	28.1	664	35.7	709	44.0	798	61.8	887	82.0	976	105	1061	129	1139	155		
Class 3=1175 RPM	60000	3546	667	31.3	708	40.4	747	49.5	785	58.7	859	78.3	933	99.4	1009	123	1082	148	1156	175		
	65000	3842	715	38.0	754	48.0	791	57.8	826	67.6	895	88.4	964	110	1032	134	1102	160	1171	188		
	70000	4137	764	45.8	801	56.6	835	67.0	869	77.8	934	99.7	997	123	1062	147	1127	174				
	75000	4433	813	54.6	848	66.1	881	77.7	913	89.0	973	112	1034	136	1092	161	1153	188				

SIZE <b>60</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			25000	1208	295	5.17	392	10.8	477	17.7	552	25.7										
<b>Max. safe speeds</b>	35000	1691	345	8.30	416	14.5	486	21.8	554	30.3	673	49.5										
Class 1= 640 RPM	45000	2174	407	13.1	463	20.2	518	28.1	573	37.0	679	57.1	777	80.3	871	107						
Class 2= 830 RPM	55000	2657	474	19.8	520	28.1	566	37.0	610	46.4	701	67.6	789	91.7	875	119	954	148	1030	180		
Class 3=1045 RPM	65000	3140	543	28.8	585	38.7	622	48.4	661	58.8	738	81.6	813	106	889	134	962	164	1034	197		
	75000	3623	614	40.4	651	51.9	686	63.1	719	74.5	785	98.7	852	126	917	154	984	185				
	85000	4106	686	55.0	720	68.1	752	81.1	781	93.7	840	120	900	149	957	178	1017	211				
	95000	4589	759	73.1	790	87.8	819	102	847	117	900	146	953	176	1005	207						

SIZE <b>66</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			30000	1198	267	6.18	355	12.9	434	21.4	502	31.1										
<b>Max. safe speeds</b>	42000	1677	312	9.88	377	17.3	440	26.0	503	36.4	613	60.1										
Class 1= 585 RPM	54000	2156	368	15.6	419	24.2	468	33.5	520	44.3	618	68.9	707	96.9	792	129						
Class 2= 755 RPM	66000	2635	428	23.5	470	33.5	513	44.3	554	55.8	636	81.2	716	110	794	143	869	179	938	218		
Class 3= 950 RPM	78000	3114	490	34.1	528	45.8	563	57.7	599	70.6	669	97.7	739	128	807	161	874	198	939	237		
	90000	3593	554	47.8	588	61.7	619	74.9	650	89.0	712	119	771	150	832	184	892	222				
	102000	4072	620	65.3	650	80.7	678	96.1	706	111	760	143	814	178	866	213	920	252				
	114000	4551	685	86.8	713	104	739	121	765	139	814	173	861	209	910	248						

SIZE <b>73</b>	CFM	OV	1"SP		2"SP		3"SP		4"SP		6"SP		8"SP		10"SP		12"SP		14"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			40000	1305	250	8.43	324	16.8	393	27.3	453	39.3										
<b>Max. safe speeds</b>	55000	1795	294	13.6	349	23.0	403	33.9	457	46.7	553	75.4	640	109								
Class 1= 530 RPM	70000	2285	347	21.3	390	32.2	434	44.3	477	57.5	560	87.5	642	123	715	162	784	204				
Class 2= 685 RPM	85000	2774	403	32.2	440	45.0	476	58.3	512	73.1	582	104	652	140	720	181	785	224	848	273		
Class 3= 880 RPM	100000	3264	461	46.5	494	61.7	524	76.7	555	92.6	615	126	676	164	737	206	796	251	853	299		
	115000	3753	521	65.2	550	82.7	578	100	604	117	657	154	709	194	762	237	816	284	867	332		
	130000	4243	581	88.5	608	108	633	128	657	148	704	188	751	230	798	276	842	322				
	145000	4732	642	117	666	140	689	162	712	184	755	228	797	273	838	320	879	370				

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).

# MOTOR PEDESTAL DIMENSIONS, CAPABILITIES

## ARRANGEMENT 8 MOTOR PEDESTAL DIMENSIONS

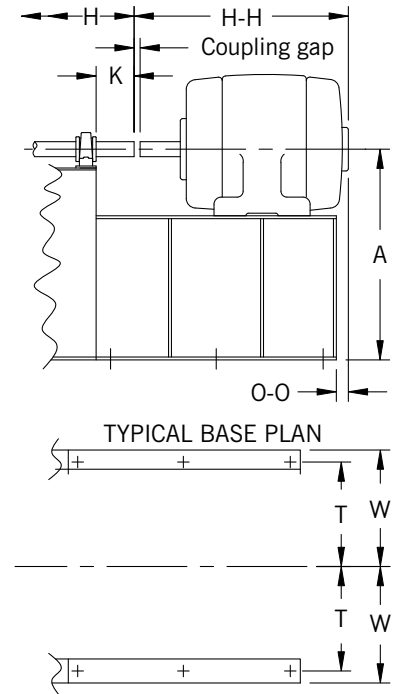
These approximate dimensions can be used to estimate the overall size of Arrangement 8 fans. Add the appropriate dimensions below to the fan dimensions on page 22.

Note: Coupling gap is based on the Falk Steelflex coupling sizes shown. As the gap will vary with other coupling sizes or types, so will the Arrangement 8 motor pedestal dimensions. Specific motor and coupling data is required to determine exact dimensions.

### DIMENSIONS [INCHES]

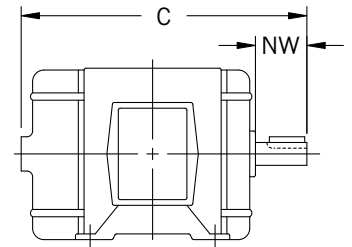
Motor frame size	Coupling		0-0*		H-H*			
	Size	Gap	Min.	Max.	Open		TE	
					Min.	Max.	Min.	Max.
213T -215T	1050T10	1/8	1 3/8	5 1/2	15 7/8	17 3/8	17 7/8	20
254T -256T	1060T10	1/8	1	5 7/8	20 5/8	22 1/2	22 1/2	25 1/2
284T -286T	1070T10	1/8	1 1/2	6 3/8	23 1/2	25 1/8	25 3/8	28 3/8
284TS-286TS	1070T10	1/8	1 1/2	6 1/2	22 1/8	23 3/4	24 1/8	27 1/8
324T -326T	1080T10	1/8	1	6 3/4	26 1/8	27 3/4	28 1/4	31 7/8
324TS-326TS	1080T10	1/8	1	6 3/4	24 5/8	26 1/8	26 3/4	30 3/8
364T -365T	1090T10	1/8	1 1/8	7	28 1/4	29 7/8	32 1/2	34 1/8
364TS-365TS	1090T10	1/8	1 5/8	7	26 5/8	27 5/8	30 3/8	32
404T -405T	1090T10	1/8	2 3/8	8 3/4	32 5/8	34 1/4	37 3/8	39
404TS-405TS	1090T10	1/8	2 3/8	8 3/4	29 5/8	31 1/4	34 3/8	36
444T -445T	1100T10	3/16	1 5/8	9 3/8	37 3/8	40	42	45 1/8
444TS-445TS	1100T10	3/16	2 1/8	9 3/8	34 1/8	36 1/4	38 3/8	41 3/8

\*H-H and 0-0 based on several major motor manufacturers—consult nyb for exact dimensions. Tolerance: ± 1/8"



## ARRANGEMENT 9 PEDESTALS—MOTOR SIZE CAPABILITY

Arrangement 9 is a space-efficient package consisting of fan, motor, V-belt drive, and accessories. Motors are mounted on the left or right side of the pedestal as space permits. C-NW is not a NEMA standard dimension and varies by manufacturer. As a result, C-NW must be checked in every instance. To determine if Arrangement 9 is a workable configuration, compare the desired motor's frame size with the frame size shown for the appropriate fan below. If the frame size and C-NW dimension are no larger than that shown, the combination is satisfactory. In all cases, C-NW is the final determining factor. The C-NW dimension for the desired motor must be equal to or less than the maximum shown. If the C-NW dimension is larger than that shown, a different motor, fan, or arrangement must be selected.



### DIMENSIONS [INCHES]

Size	Class 1						Class 2						Class 3					
	Standard fans			Heat fans			Standard fans			Heat fans			Standard fans			Heat fans		
	Max. C-NW	Motor frame size		Max. C-NW	Motor frame size		Max. C-NW	Motor frame size		Max. C-NW	Motor frame size		Max. C-NW	Motor frame size		Max. C-NW	Motor frame size	
		TEFC	ODP		TEFC	ODP		TEFC	ODP		TEFC	ODP		TEFC	ODP		TEFC	ODP
12	12 1/2	145T	145T	11 1/4	145T	145T	13 1/2	145T	145T	12 3/4	145T	145T	—	—	—	—	—	—
15	13 1/2	184T	184T	12 1/4	145T	184T	15 5/16	184T	184T	14 1/16	184T	184T	—	—	—	—	—	—
18	13 9/16	184T	213T	12 5/16	145T	184T	16 13/16	213T	215T	15 9/16	213T	215T	15 1/2	213T	215T	14 1/4	184T	213T
22	16 13/16	215T	254T	15 9/16	213T	215T	20 7/16	215T	284T	19 3/16	215T	256T	20 1/4	254T	256T	19	215T	256T
24	16 15/16	215T	254T	15 11/16	213T	215T	22 3/16	256T	286T	20 15/16	254T	286T	21 1/4	254T	286T	20	254T	256T
27	20 7/16	254T	256T	19 3/16	215T	256T	22 15/16	256T	326T	21 11/16	256T	286T	22 1/4	256T	286T	21	254T	286T
30	20 7/16	254T	284T	19 3/16	215T	256T	24 1/2	324T	365T	23 1/4	284T	326T	25	324T	365T	23 3/4	286T	326T
33	22 3/16	256T	284T	20 15/16	254T	286T	27 3/4	326T	405T	26 1/2	324T	365T	27 1/2	326T	405T	26 1/4	326T	365T
36	22 1/4	256T	284T	21	254T	286T	27 13/16	364T	405T	26 9/16	326T	365T	23 7/8	326T	365T	22 5/8	324T	365T
40	27 3/4	326T	405T	26 1/2	326T	365T	29 1/4	365T	405T	28	365T	405T	27	326T	405T	25 3/4	324T	365T
44	27 3/4	326T	405T	26 1/2	326T	365T	32 3/4	405T	405T	31 1/2	365T	405T	30	365T	405T	28 3/4	365T	405T
49	29 1/4	365T	405T	28	365T	405T	32 3/4	405T	405T	31 1/2	365T	405T	33	405T	405T	31 3/4	405T	405T
54	29 1/4	365T	405T	28	365T	405T	37 3/4	405T	405T	36 1/2	405T	405T	36	405T	405T	34 3/4	405T	405T
60	29 1/4	365T	405T	28	365T	405T	37 3/4	405T	405T	36 1/2	405T	405T	41	405T	405T	39 3/4	405T	405T
66	32 3/4	405T	405T	31 1/2	365T	405T	37 3/4	405T	405T	36 1/2	405T	405T	44	405T	405T	42 3/4	405T	405T
73	32 3/4	405T	405T	31 1/2	365T	405T	46 3/4	405T	405T	45 1/2	405T	405T	49	405T	405T	47 3/4	405T	405T

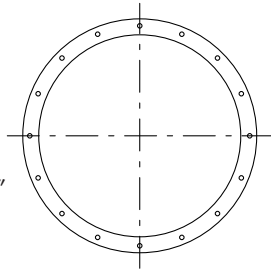
Motors on 326T frames and larger should be checked for weight. Arrangement 9 fans can accommodate motors weighing up to 600 lbs. Arrangement 9 fans provisioned with heavy duty slide rails can accommodate motors weighing up to 1000 lbs. Arrangement 1 fans with unitary bases are required for motors weighing more than 1000 lbs. Tolerance: ± 1/8"

# FLANGE DIMENSIONS

## FLANGED INLET OPTION

Holes furnished on vertical centerline.

**Note:** Inlet-flange angles:  
 Size 12 . . . . . 1" x 1" x 1/8"  
 Sizes 15-22 . . 1 1/2" x 1 1/2" x 3/16"  
 Sizes 24-73 . . 2" x 2" x 3/16"



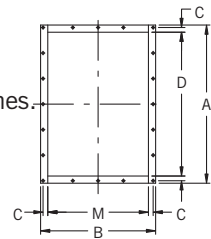
### DIMENSIONS [INCHES]

Size	ID	BC	OD	Holes	
				No.	Dia.
12	13 1/2	14 5/8	15 1/2	8	7/16
15	16 3/8	17 7/8	19 3/8	8	7/16
18	20	21 3/4	23	16	9/16
22	24 3/8	26 1/8	27 3/8	16	9/16
24	26 7/8	29 1/8	30 7/8	16	9/16
27	29 1/2	31 3/4	33 1/2	16	9/16
30	32 7/8	35 1/8	36 7/8	16	9/16
33	36 1/8	38 3/8	40 1/8	16	9/16
36	40 1/8	42 3/8	44 1/8	16	9/16
40	43 7/8	46 1/8	47 7/8	24	9/16
44	48 7/8	51 1/8	52 7/8	24	9/16
49	53 7/8	56 1/8	57 7/8	24	9/16
54	59 3/8	61 5/8	63 3/8	24	9/16
60	66 1/8	68 3/8	70 1/8	32	9/16
66	72 5/8	74 7/8	76 5/8	32	9/16
73	80 5/8	82 7/8	84 5/8	32	9/16

Tolerance: ± 1/8"

## FLANGED OUTLET OPTION

1. Flange face mounted flush with outside edge of housing discharge.
2. Holes furnished on 4" centers from centerlines.
3. For alloy construction and Arrangements 1, 3, and 10 Down Blast discharge:  
 Sizes 12-15 . . 1" x 1" x 1/8" angle.  
 Sizes 18-22 . . 1 1/4" x 1 1/4" x 3/16" angle.



**NOTE:** Outlet-flange angles or material gauge:  
 Sizes 12-22\* . . 7 gauge plate.  
 Sizes 24-33 . . . 1 1/2" x 1 1/2" x 3/16" angle.  
 Sizes 36-73 . . . 2" x 2" x 3/16" angle.

### DIMENSIONS [INCHES]

Size	A*	B†*	C	D•	M•†	Holes/flange		Hole dia.
						Sides	†Top/bottom	
12	15 3/4	11 3/8	5/8	13 5/8	9 3/8	3	3	5/16
15	18 3/4	13 3/8	5/8	16 3/4	11 3/8	5	3	5/16
18	22 15/16	16 3/8	3/4	20 1/2	13 7/8	5	3	7/16
22	27 5/16	19 3/8	3/4	24 7/8	16 7/8	7	3	7/16
24	30 3/8	21 1/2	7/8	27 3/8	18 1/2	7	5	7/16
27	33 1/4	23 3/8	7/8	30 1/4	20 3/8	9	5	7/16
30	36 1/2	25 5/8	7/8	33 1/2	22 5/8	9	5	7/16
33	39 7/8	27 7/8	7/8	36 7/8	24 7/8	9	5	7/16
36	44 3/4	31 1/2	1 1/8	40 3/4	27 1/2	11	7	9/16
40	48 7/8	34 3/8	1 1/8	44 7/8	30 3/8	11	7	9/16
44	53 5/8	37 1/2	1 1/8	49 5/8	33 1/2	13	7	9/16
49	58 5/8	40 7/8	1 1/8	54 5/8	36 7/8	15	9	9/16
54	64 3/8	44 3/4	1 1/8	60 3/8	40 3/4	15	9	9/16
60	70 7/8	49	1 1/8	66 7/8	45	17	11	9/16
66	77 1/2	53 1/2	1 1/8	73 1/2	49 1/2	19	11	9/16
73	85 1/4	58 3/4	1 1/8	81 1/4	54 3/4	21	13	9/16

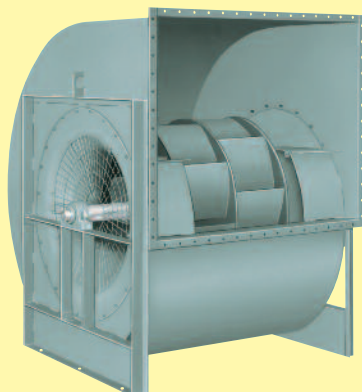
† Dimensions may vary with narrow-width construction.

Tolerance: ± 1/8"

- Dimension shown is inside flange, outside housing, Deduct housing material thicknesses to determine inside dimensions of discharge.
- \* Materials of construction for mild steel only. Alloy construction uses angle on all sizes. A and B dimensions will vary in Sizes 12-22.

# UNIQUE FANS FOR AIR-HANDLING

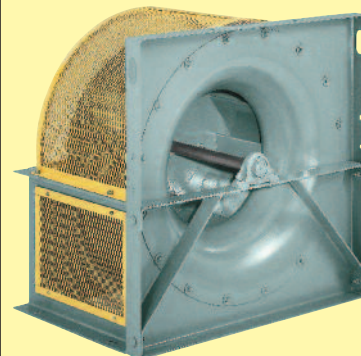
## DOUBLE-WIDTH ACOUSTAFOIL



## Capacities to 350,000 CFM, 14" WG

A complete double-width offering to suit AMCA Class 1, 2, and 3 performance standards...airfoil-wheel design for quiet, efficient performance with non-overloading horsepower characteristic... stable performance, when coupled with **nyb** inlet dampers, is particularly well-suited to the variable-air-volume systems.

## PLENUM



## Capacities to 180,000 CFM, 13" WG

Ideal for packaged or built-up air-handling systems where reduced size and weight is critical... available with two wheel choices: high-efficiency Acoustafoil and ultra-quiet Acoustafoil-Q... consider New York Blower Plenum Fans for the utmost in system value and application flexibility.

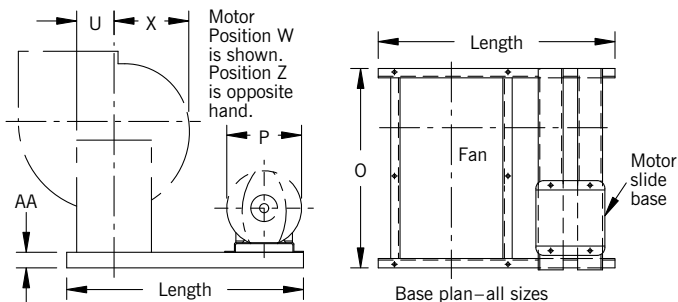


# UNITARY BASE DIMENSIONS

Structural-steel channel base provides a factory-designed package of Arrangement 1 or 3 fan, motor, drive, and guard. Also available with rubber-in-shear or spring isolation. Built-in motor rails provide for adjustment of belt tension.

Unitary base with isolation is also available for Arrangement 4, 8, and 9 fans.

**NOTE:** Down Blast discharge requires special construction. Also, some larger fans on unitary bases cannot be shipped as an assembled package.



Approximate base length =  $U + X + P + 16$

U = from fan base dimension drawing on pages 22 and 23.

X = dimension from fan centerline to edge of scroll nearest motor. Dimension varies with discharge and motor position. Refer to dimensional drawings on pages 22 and 23.

P = diameter of motor from table at upper right.

16 = constant—allows for motor clearance.

**NOTE:** These dimensions are only approximate. Exact dimensions furnished after order is placed.

## DIMENSIONS [INCHES]

Size	AA	O		
		Class 1	Class 2	Class 3
12	3*†	25	26	—
15	3*†	28	29 <sup>3</sup> / <sub>4</sub>	—
18	3*†	30 <sup>1</sup> / <sub>2</sub>	33 <sup>3</sup> / <sub>4</sub>	32
22	3*†	36 <sup>7</sup> / <sub>8</sub>	40 <sup>1</sup> / <sub>2</sub>	39 <sup>3</sup> / <sub>4</sub>
24	3*†	39 <sup>1</sup> / <sub>8</sub>	44 <sup>3</sup> / <sub>8</sub>	42 <sup>3</sup> / <sub>8</sub>
27	4†	44 <sup>3</sup> / <sub>4</sub>	47 <sup>1</sup> / <sub>4</sub>	45 <sup>1</sup> / <sub>2</sub>
30	4†	47	51	50 <sup>1</sup> / <sub>2</sub>
33	4†	51	56 <sup>1</sup> / <sub>2</sub>	55 <sup>1</sup> / <sub>4</sub>
36	6•	53 <sup>5</sup> / <sub>8</sub>	59 <sup>1</sup> / <sub>4</sub>	59 <sup>3</sup> / <sub>8</sub>
40	6•	66 <sup>1</sup> / <sub>8</sub>	67 <sup>5</sup> / <sub>8</sub>	65 <sup>3</sup> / <sub>8</sub>
44	6•	69 <sup>1</sup> / <sub>8</sub>	74 <sup>1</sup> / <sub>8</sub>	71 <sup>3</sup> / <sub>8</sub>
49	6•	74 <sup>1</sup> / <sub>8</sub>	77 <sup>5</sup> / <sub>8</sub>	77 <sup>7</sup> / <sub>8</sub>
54	6•	79 <sup>7</sup> / <sub>8</sub>	88 <sup>3</sup> / <sub>8</sub>	86 <sup>5</sup> / <sub>8</sub>
60	6•	84 <sup>1</sup> / <sub>8</sub>	92 <sup>5</sup> / <sub>8</sub>	95 <sup>7</sup> / <sub>8</sub>
66	6•	94 <sup>1</sup> / <sub>8</sub>	99 <sup>1</sup> / <sub>8</sub>	105 <sup>3</sup> / <sub>8</sub>
73	6•	99 <sup>3</sup> / <sub>8</sub>	113 <sup>3</sup> / <sub>8</sub>	115 <sup>5</sup> / <sub>8</sub>

\*4" channel used for motors larger than 215T up to 286T. Tolerance:  $\pm 1/8$ "

†6" channel used for motors larger than 286T.

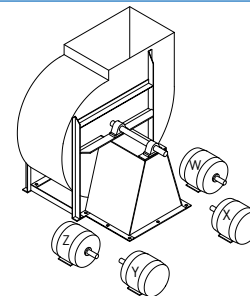
•8" channel used for base lengths exceeding 100".

## P DIMENSIONS [INCHES]

Size	Typical TEFC motor
143T	7 <sup>3</sup> / <sub>4</sub>
145T	7 <sup>3</sup> / <sub>4</sub>
182T	9 <sup>1</sup> / <sub>2</sub>
184T	9 <sup>1</sup> / <sub>2</sub>
213T	12
215T	12
254T	14 <sup>1</sup> / <sub>2</sub>
256T	14 <sup>1</sup> / <sub>2</sub>
284T	15 <sup>1</sup> / <sub>4</sub>
286T	15 <sup>1</sup> / <sub>4</sub>
324T	17 <sup>3</sup> / <sub>8</sub>
326T	17 <sup>3</sup> / <sub>8</sub>
364T	19 <sup>1</sup> / <sub>2</sub>
365T	19 <sup>1</sup> / <sub>2</sub>
404T	21 <sup>5</sup> / <sub>8</sub>
405T	21 <sup>5</sup> / <sub>8</sub>
444T	24 <sup>1</sup> / <sub>8</sub>
445T	24 <sup>1</sup> / <sub>8</sub>
447T	24 <sup>1</sup> / <sub>8</sub>
449T	24 <sup>1</sup> / <sub>8</sub>

## AMCA STANDARD MOTOR-POSITION DESIGNATIONS

Arrangement 1 and 3 motor positions are independent of fan rotation and discharge. Position is determined from drive end of fan shaft as shown in drawing at right.



# HEAVY-DUTY FANS FOR HIGHER PRESSURES

## CLASS IV



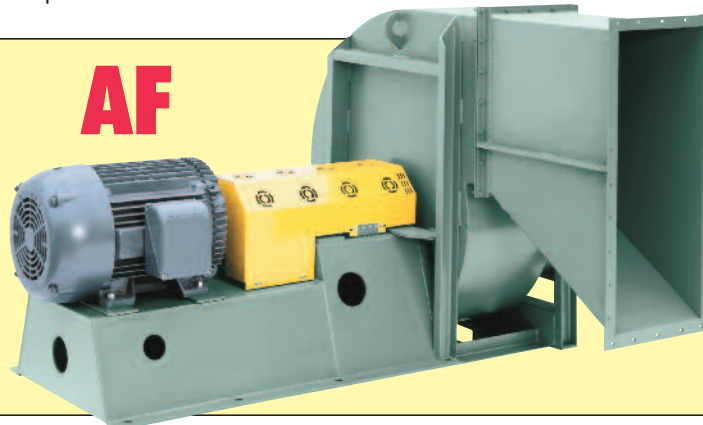
Capacities to 170,000 CFM, 20" WG

A heavier-duty extension of the Single-Width Fan design for higher pressure requirements...choice of two wheels for best efficiency: AcoustaFoil for clean, dry airstreams and PLR for moderate amounts of dirt and moisture...temperatures to 750°F.

Capacities to 130,000 CFM, 50" WG

Airfoil-wheel design for high efficiency with non-overloading horsepower characteristic featuring curves which cover a wide range of narrow-width performance at direct-drive motor speeds... well-suited to higher horsepower required for high-pressure performance.

## AF



# MATERIAL SPECIFICATIONS

U.S. standard sheet gauge to 7 gauge. Dimensions in inches. Weights in pounds. WR<sup>2</sup> in lb.-ft.<sup>2</sup>.

CLASS 1																					
Size	Housing				Shaft		Bearing		Arr. 1, 8, & 9 bearing pedestal	Wheel						Bare fan weight					
	Arr. 1, 8, & 9		Arr. 3		Arr. 1, 8, & 9	Arr. 3	Arr. 1, 8, & 9	Arr. 3		AcoustaFoil		BC		PLR		AcoustaFoil		BC		PLR	
	Scroll	Side sheets	Scroll	Side sheets						WR <sup>2</sup>	Weight	WR <sup>2</sup>	Weight	WR <sup>2</sup>	Weight	Arr. 1	Arr. 3	Arr. 1	Arr. 3	Arr. 1	Arr. 3
12	16	14	—	—	1	—	A	—	10	1	7	—	—	2	15	102	—	—	—	110	—
15	16	14	—	—	1 <sup>3</sup> / <sub>16</sub>	—	A	—	10	3	12	—	—	4	21	137	—	—	—	146	—
18	14	14	—	—	1 <sup>3</sup> / <sub>16</sub>	—	A	—	10	10	32	11	36	10	32	202	—	206	—	202	—
22	14	14	—	—	1 <sup>7</sup> / <sub>16</sub>	—	A	—	10	22	44	30	59	26	50	279	—	294	—	285	—
24	14	12	12	10	1 <sup>7</sup> / <sub>16</sub>	1 <sup>11</sup> / <sub>16</sub>	A	A	7	38	71	49	88	43	77	401	396	418	413	407	402
27	14	12	12	10	1 <sup>11</sup> / <sub>16</sub>	1 <sup>11</sup> / <sub>16</sub>	A	A	7	63	90	72	103	64	91	495	515	508	528	496	516
30	14	12	12	10	1 <sup>11</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	A	A	7	91	103	112	126	97	108	573	683	596	706	578	688
33	14	12	12	10	1 <sup>15</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	A	A	7	121	119	151	146	131	127	669	749	696	776	677	757
36	12	12	10	10	1 <sup>15</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	A	C	7	232	178	265	205	235	181	893	998	920	1025	896	1001
40	10	10	10	10	2 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	C	C	1/4	306	188	301	231	310	191	1383	1223	1426	1266	1386	1226
44	10	10	10	10	2 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	C	C	1/4	501	260	576	301	506	264	1680	1540	1721	1581	1684	1544
49	10	10	10	10	2 <sup>7</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	C	C	1/4	809	344	937	402	903	377	1979	1884	2037	1942	2012	1917
54	10	10	10	10	2 <sup>11</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	D	D	1/4	1205	411	1397	483	1344	453	2596	2191	2668	2263	2638	2233
60	10	10	10	10	2 <sup>15</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>	D	D	1/4	1761	509	2402	648	2330	637	3059	2644	3198	2783	3187	2772
66	10	10	10	10	2 <sup>15</sup> / <sub>16</sub>	2 <sup>15</sup> / <sub>16</sub>	D	E	1/4	3583	825	4109	956	3915	893	4165	3835	4296	3966	4233	3903
73	10	10	10	10	3 <sup>7</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	D	F	1/4	5705	1047	6385	1215	6441	1164	5047	4632	5215	5164	5164	4749

CLASS 2																					
Size	Housing				Shaft		Bearing		Arr. 1, 8, & 9 bearing pedestal	Wheel						Bare fan weight					
	Arr. 1, 8, & 9		Arr. 3		Arr. 1, 8, & 9	Arr. 3	Arr. 1, 8, & 9	Arr. 3		AcoustaFoil		BC		PLR		AcoustaFoil		BC		PLR	
	Scroll	Side sheets	Scroll	Side sheets						WR <sup>2</sup>	Weight	WR <sup>2</sup>	Weight	WR <sup>2</sup>	Weight	Arr. 1	Arr. 3	Arr. 1	Arr. 3	Arr. 1	Arr. 3
12	16	14	—	—	1 <sup>3</sup> / <sub>16</sub>	—	A	—	10	1	7	—	—	2	15	107	—	—	—	115	—
15	16	14	—	—	1 <sup>7</sup> / <sub>16</sub>	—	A	—	10	3	12	—	—	4	21	147	—	—	—	156	—
18	14	14	—	—	1 <sup>11</sup> / <sub>16</sub>	—	A	—	10	10	31	20	48	10	32	221	—	238	—	222	—
22	14	14	—	—	1 <sup>11</sup> / <sub>16</sub>	—	A	—	7	22	44	30	68	26	59	334	—	358	—	349	—
24	14	12	12	10	1 <sup>11</sup> / <sub>16</sub>	1 <sup>11</sup> / <sub>16</sub>	A	A	7	38	70	49	88	43	74	440	485	458	503	444	489
27	14	12	12	10	1 <sup>15</sup> / <sub>16</sub>	1 <sup>11</sup> / <sub>16</sub>	A	A	7	63	90	72	103	64	91	520	655	533	668	521	656
30	14	12	12	10	1 <sup>15</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	C	C	1/4	91	103	111	125	104	115	698	838	620	860	710	850
33	14	12	12	10	2 <sup>3</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	C	C	1/4	121	119	151	146	146	137	859	914	886	941	877	932
36	12	12	10	10	2 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	D	C	1/4	232	178	267	204	278	206	1068	1193	1094	1219	1096	1221
40	10	10	10	10	2 <sup>7</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	D	C	3/8	306	188	309	242	355	214	1558	1298	1612	1352	1584	1324
44	10	10	10	10	2 <sup>11</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>	D	E	3/8	501	260	584	311	568	289	1910	1845	1961	1896	1939	1874
49	10	10	10	10	2 <sup>15</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>	D	E	3/8	833	349	937	402	903	377	2244	2119	2297	2172	2272	2147
54	10	10	10	10	3 <sup>7</sup> / <sub>16</sub>	2 <sup>15</sup> / <sub>16</sub>	D	F	3/8	1244	419	1601	541	1599	520	3024	2739	3146	2861	3125	2840
60	7	7	7	7	3 <sup>7</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	D	F	3/8	1822	522	2489	670	2419	660	3862	3637	4010	3785	4000	3775
66	7	7	7	7	3 <sup>7</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	D	F	3/8	3674	840	4110	972	4074	922	5015	4235	5147	4367	5097	4317
73	7	7	7	7	3 <sup>15</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	D	F	3/8	5833	1079	6382	1229	6442	1179	6214	5734	6364	5884	6314	5834

CLASS 3															
Size	Housing		Shaft		Bearing		Arr. 1, 8, & 9 bearing pedestal	Wheel				Bare fan weight			
	Scroll	Side sheets	Arr. 1, 8, & 9	Arr. 3	Arr. 1, 8, & 9	Arr. 3		AcoustaFoil		PLR		AcoustaFoil		PLR	
								WR <sup>2</sup>	Weight	WR <sup>2</sup>	Weight	Arr. 1	Arr. 3	Arr. 1	Arr. 3
18	10	10	1 <sup>11</sup> / <sub>16</sub>	—	C	—	10	12	44	11	43	299	—	298	—
22	10	10	1 <sup>15</sup> / <sub>16</sub>	—	C	—	7	26	58	28	63	343	—	348	—
24	10	10	2 <sup>3</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	D	C	7	43	82	46	87	582	677	587	682
27	10	10	2 <sup>3</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	D	C	1/4	65	101	69	103	736	796	738	798
30	10	10	2 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	D	C	1/4	115	131	110	127	1001	1071	997	1067
33	7	7	2 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	D	E	1/4	154	145	155	147	1270	1200	1272	1202
36	7	7	2 <sup>11</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub>	D	E	1/4	259	258	275	268	1553	1403	1563	1413
40	7	7	2 <sup>15</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>	D	E	3/8	407	311	431	325	2051	1711	2065	1725
44	7	7	2 <sup>15</sup> / <sub>16</sub>	2 <sup>15</sup> / <sub>16</sub>	D	E	3/8	597	358	628	372	2558	2258	2572	2272
49	7	7	3 <sup>7</sup> / <sub>16</sub>	2 <sup>15</sup> / <sub>16</sub>	D	F	3/8	976	558	1059	589	3103	2518	3134	2549
54	7	7	3 <sup>15</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	D	F	3/8	1760	699	2097	796	4169	3369	4266	3466
60	7	7	4 <sup>7</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	D†	F	3/8	2763	855	3188	956	5315	3965	5416	4066
66	7	7	4 <sup>7</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>16</sub>	F*	F	3/8	4160	1061	4938	1210	7051	5901	7200	6050
73	7	7	4 <sup>7</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>16</sub>	F*	F*	3/8	6129	1248	7493	1486	7703	6423	7941	6661

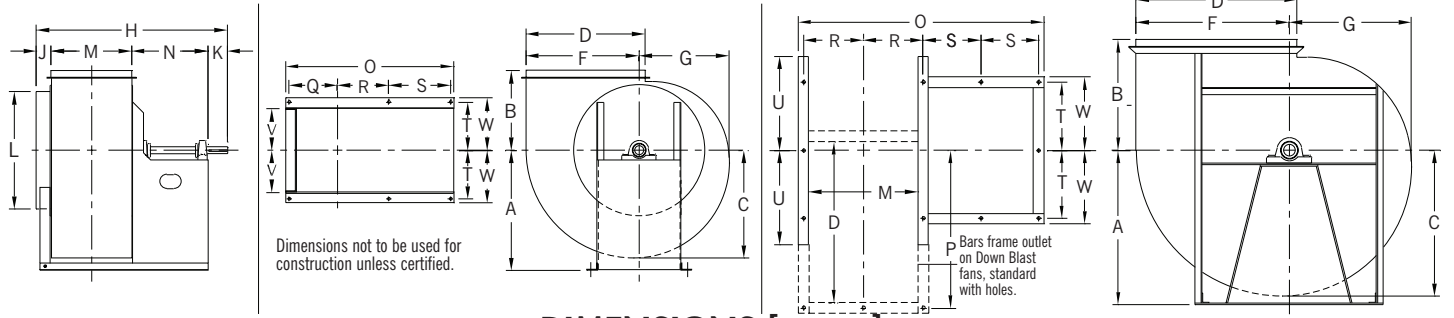
**BEARING TYPES** A—Link-Belt P3-U200. D—Sealmaster MPD. E—Link-Belt P-300. F—Link-Belt P-B22400. nyb reserves the right to substitute bearings of equal ratings.  
 C—Sealmaster SPM. D†—Sealmaster MSPD. F\*—Link-Belt P-B22500.

# CLASS 1, 2 ARRANGEMENT 1, 8, 9 DIMENSIONS

SIZES 12 TO 73

SIZES 12 TO 36

SIZES 40 TO 73



Dimensions not to be used for construction unless certified.

Bars frame outlet on Down Blast fans, standard with holes.

## DIMENSIONS [INCHES]

Size	A					B		C	D	F	G	H†		J	K	L	M†	N				O†	P	Q†	R†	S		T	U/W	W	a	b		c	d	Base holes
	TH TAD	BH BAU	UB TAU	DB	*	TAD	Class 1					Class 2	Class 1					Class 2	Class 1	Class 2	Class 1					Class 2	Class 1					Class 2	Class 1			
12	15½	15½	15½	15½	10	10	12¾	13¾	13	10¾	27½	28½	2½	2½	13½	9¾	13½	14½	25	26	6½	6½	107	117	7¾	8	11½	16¼	16¼	127	9¼	9/16				
15	17½	17½	17½	17½	12	12	15½	16¾	15¾	12¾	32	33¾	3½	3	16½	11¾	14½	16¾	28½	29½	7½	7½	117	135	87/8	8	14½	19¾	19¾	15¾	11¾	9/16				
18	21¼	21¼	21¼	21¼	14	14	18½	20½	19¾	15½	35½	38¾	3½	3½	20	137/8	14¾	177/8	31½	34¾	85/8	93/8	11½	14¾	93/8	8¼	10¼	23¾	23¾	19½	137/8	9/16				
22	25½	25½	25½	25½	17	17	22½	247/8	23¾	187/8	417/8	45½	3½	4	24½	167/8	177/8	21½	37½	417/8	107/8	11¾	14	177/8	107/8	9¾	11¾	21	28¾	28¾	23¼	16¾	9/16			
24	28	28	28	28	19	19	24¾	27¾	26	20¾	45½	50¾	4½	4½	27	18½	18	23¼	39¾	45	11¾	12½	137/8	19½	12¼	11	13	23½	317/8	317/8	25½	18½	¾			
27	30½	30½	30½	30½	20½	20½	27¼	30¼	28¾	22½	51	53½	4½	5	30	209/8	21½	24	45½	47¾	12¾	13¾	179/8	197/8	13¾	11¾	14¾	259/8	34¾	34¾	28¼	209/8	¾			
30	33¾	33¾	33¾	33¾	22½	22½	30¾	33¾	317/8	25¾	53¾	57¾	4½	5½	33	22¾	21½	25½	47¾	51¾	13½	14½	17¾	21¾	13¾	11¾	14¾	28¼	38¾	38¾	31¾	22¾	¾			
33	37	37	37	37	24½	24½	33¾	36¾	35	28	58¼	63¾	4½	6	36½	24¾	23¼	28¾	51¾	567/8	145/8	15¾	19½	16	14	17	31½	42¾	42¾	34¾	25¼	¾				
36	42	42	42	42	29	29	367/8	40¾	38¾	307/8	62¼	677/8	5	6½	40	27½	23¼	287/8	54	59¾	157/8	17½	19	24¾	16	14	17	34¾	477/8	477/8	38¼	27½	¾			
40	46	46	46	46	31	31	40¾	447/8	42¾	34½	73½	745/8	5	7	44¾	30¾	30¾	32¼	67½	68¾	16¾	16¾	16¾	19	19	26¼	38	52½	62¼	42½	30	7/8				
44	50	50	50	50	33½	33½	45	49¾	47¾	37¾	76¾	81¾	5	7½	49¾	33½	30¾	35¾	70¼	75¼	18¾	18¾	177/8	21	21	28¾	42	57	68	46½	33¾	7/8				
49	55	55	55	55	36	36	49½	54¾	52	41½	82½	85¾	5	8	54¾	367/8	32¼	35¾	75¾	78¾	15¾	20	177/8	23	23	31¼	46¾	62¼	74¾	51¼	36½	7/8				
54	60½	60½	60½	60½	40	40	58¾	64¾	60¾	57½	88½	97	6	8½	60¼	40¾	33¼	41¾	82	90½	18¾	22¾	207	25	35	27	51½	69	82¾	56¾	41	1				
60	66	66	66	66	43	43	64½	70¾	66¾	63¾	93¼	101¾	6	9	67	45	33¼	41¾	86¼	94¼	16¾	24½	207	26½	38½	28½	56¾	75½	90¾	617/8	45¾	1				
66	73	73	73	73	47	47	70¼	77¾	73¾	70	103¾	108¾	7	9½	73½	49½	37¾	42¾	97¼	102¼	17¾	27¼	21¾	29	29	42¼	31½	62¼	82¾	99¾	69¾	497/8	1			
73	80½	80½	80½	80½	51½	51½	76½	81¼	77¾	73¾	109½	123½	7	10	81½	54¾	37¾	51¾	102½	116½	19¾	297/8	257/8	33½	36	687/8	91¼	1087/8	76¾	557/8	1	1				

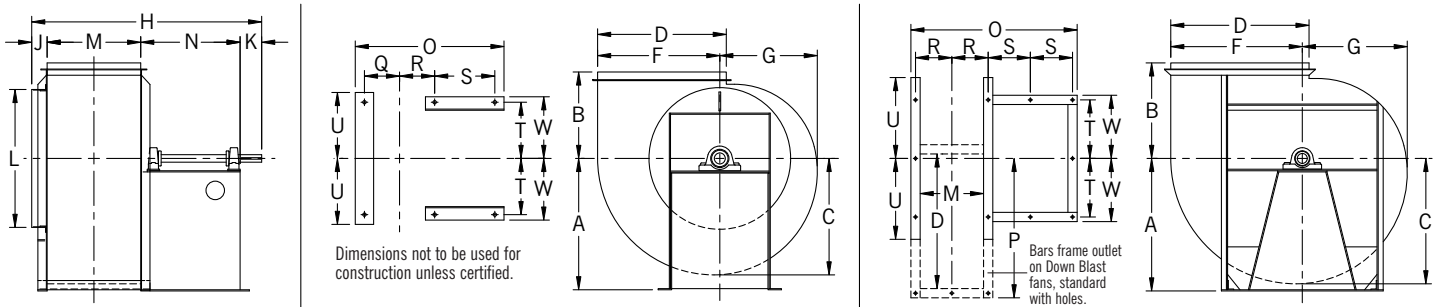
\*For TH, BH, UB, DB, BAU and TAU discharge. †Dimensions may vary with narrow-width construction. J is from housing side over inlet collar. L, M, and D are outside dimensions. Tolerance: ± 1/8"

# CLASS 3 ARRANGEMENT 1, 8, 9 DIMENSIONS

SIZES 18 TO 73

SIZES 18 TO 33

SIZES 36 TO 73



Dimensions not to be used for construction unless certified.

Bars frame outlet on Down Blast fans, standard with holes.

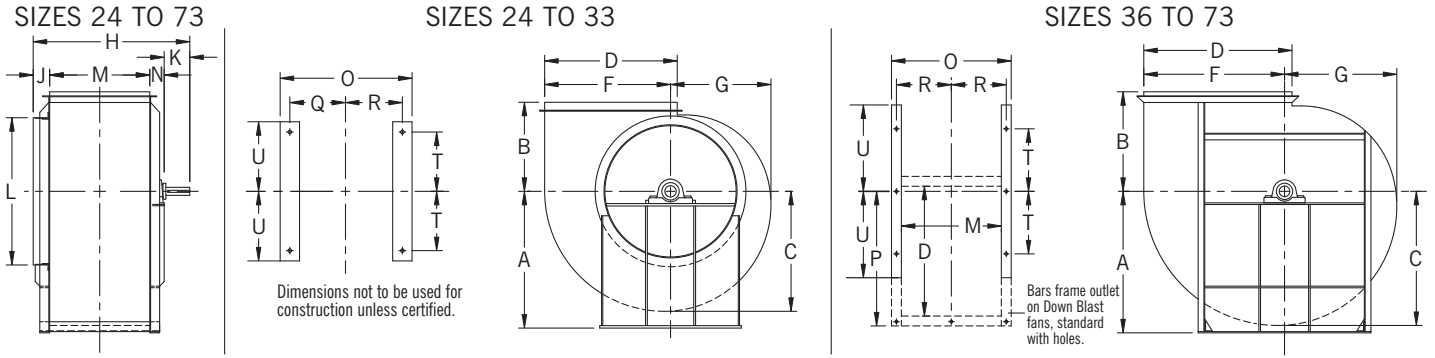
## DIMENSIONS [INCHES]

Size	A					B		C	D	F	G	H†	J	K	L	M†	N	O†	P	Q†	R†	S	T	U	W	a	b		c	d	Base holes
	TH TAD	BH BAU	UB TAU	DB	*	TAD	BAU TAU																				TAD				
18	21¾	21¾	21¾	21¾	14	14	18½	20½	19¾	15½	37½	3¾	4	20¾	137/8	16½	33¾	8¾	8½	13¾	9¾	107/8	10¼	17¼	23¾	23¾	19½	137/8	9/16		
22	26	26	26	26	17	17	22½	247/8	23¾	187/8	45¾	3½	4½	25½	167/8	21¼	41¾	10¼	10	18½	107/8	129/8	11¾	21	28¾	28¾	23¼	16¾	9/16		
24	28¾	28¾	28¾	28¾	19	19	24¾	27¾	26	20¾	497/8	4½	5	27¾	18½	22¼	45	11½	11¾	18½	12¼	14¾	13½	23½	317/8	317/8	25¾	18½	¾		
27	31½	31½	31½	31½	20½	20½	27¼	30¼	28¾	227/8	53¼	4½	5½	30¼	20¾	23¼	477/8	12½	12½	19½	13¾	15½	147/8	25¾	34¾	34¾	28¼	20¾	¾		
30	34¾	34¾	34¾	34¾	22½	22½	30¾	33¾	317/8	25¾	58¾	4½	6	33¾	22¾	26	527/8	13¾	13¾	217/8	147/8	167/8	167/8	28¼	38¾	38¾	31¾	22¾	¾		
33	37¾	37¾	37¾	37¾	24½	24½	33¾	36¾	35	28	64	4½	6½	367/8	247/8	28½	579/8	14¾	14½	24¾	16	18¼	17¼	31½	42½	42½	34¾	25¼	¾		
36	42	42	42	42	29	29	41¼	447/8	42¾	34½	727/8	5	7	41	27½	27	60½	40¼	15¼	13½	17½	24½	19	34¾	477/8	57¼	38¼	27½	7/8		
40	46	46	46	46	31	31	45¼	49¾	47¾	37¾	79½	5	7½	44¾	30¾	30	66¾	44¼	16¾	14¾	15	19	26¼	20½	38	52½	62¼	42½	30	7/8	
44	50	50	50	50	33½	33½	49	45	49¾	47¼	81¾	5	8	49¾	33½	33	727/8	48¾	18¼	16½	21	28¾	22½	42	57	68	46½	33¾	7/8		
49	55	55	55	55	36	36	53¼	49½	54¾	52	86¾	5	8½	54¾	367/8	36	78½	53½	20	18	23	31¼	24½	467/8	74¾	51¼	36½	7/8			
54	60½	60½	60½	60½	40	40	58¾	64¾	60¾	57½	95¾	6	9	60¼	40¾	40	88¾	59¾	22¾	20	25	35	27	51½	69	82¾	56¾	41	1		
60	66	66	66	66	43	43	64½	70¾	66¾	63¾	105½	6	9½	67	45	45	98	65¾	24½	22½	26½	38½	28½	56¾	75½	90¾	617/8	45¾	1		
66	73	73	73	73	47	47	70¼	77¾	73¾	70	115½	7	10	73½	49½	49	108½	72½	27¼	24½	29	42¼	31	62¼	82¾	99¾	69¾	497/8	1		
73	80½	80½	80½	80½	51½	51½	76½	81¼	77¾	73¾	126¼	7	10½	81½	54¾	54	118¾	80	297/8	27	33½	46¼	36	687/8	91¼	1087/8	76¾	557/8	1	1	

\*For TH, BH, UB, DB, BAU and TAU discharge. †Dimensions may vary with narrow-width construction. J is from housing side over inlet collar. L, M, and D are outside dimensions. Tolerance: ± 1/8"



# CLASS 1, 2, 3 ARRANGEMENT 3 DIMENSIONS



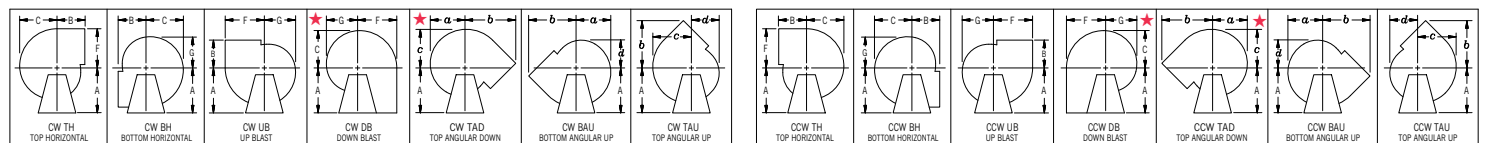
## DIMENSIONS [INCHES]

Size	A				B		C	D	F	G	H			J	K	
	TH TAD	BH BAU	UB TAU	DB	*	TAD					Class 1	Class 2	Class 3		Class 1, 2	Class 3
24	28	28	28	28	19	19	24 <sup>3</sup> / <sub>4</sub>	27 <sup>3</sup> / <sub>8</sub>	26	20 <sup>3</sup> / <sub>4</sub>	29 <sup>3</sup> / <sub>4</sub>	29 <sup>3</sup> / <sub>4</sub>	30 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	5
27	30 <sup>1</sup> / <sub>2</sub>	30 <sup>1</sup> / <sub>2</sub>	30 <sup>1</sup> / <sub>2</sub>	30 <sup>1</sup> / <sub>2</sub>	20 <sup>1</sup> / <sub>2</sub>	20 <sup>1</sup> / <sub>2</sub>	27 <sup>1</sup> / <sub>4</sub>	30 <sup>1</sup> / <sub>4</sub>	28 <sup>5</sup> / <sub>8</sub>	22 <sup>7</sup> / <sub>8</sub>	32 <sup>1</sup> / <sub>8</sub>	32 <sup>1</sup> / <sub>8</sub>	32 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>8</sub>	5	5 <sup>1</sup> / <sub>2</sub>
30	33 <sup>3</sup> / <sub>4</sub>	33 <sup>3</sup> / <sub>4</sub>	33 <sup>3</sup> / <sub>4</sub>	33 <sup>3</sup> / <sub>4</sub>	22 <sup>1</sup> / <sub>2</sub>	22 <sup>1</sup> / <sub>2</sub>	30 <sup>3</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>2</sub>	31 <sup>7</sup> / <sub>8</sub>	25 <sup>3</sup> / <sub>8</sub>	34 <sup>7</sup> / <sub>8</sub>	34 <sup>7</sup> / <sub>8</sub>	35 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>4</sub>	6
33	37	37	37	37	24 <sup>1</sup> / <sub>2</sub>	24 <sup>1</sup> / <sub>2</sub>	33 <sup>3</sup> / <sub>8</sub>	36 <sup>7</sup> / <sub>8</sub>	35	28	38 <sup>5</sup> / <sub>8</sub>	38 <sup>5</sup> / <sub>8</sub>	40 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>
36	33	42	39	29	29	41 <sup>3</sup> / <sub>4</sub>	36 <sup>7</sup> / <sub>8</sub>	40 <sup>3</sup> / <sub>4</sub>	38 <sup>3</sup> / <sub>4</sub>	30 <sup>7</sup> / <sub>8</sub>	43	43	44 <sup>1</sup> / <sub>2</sub>	6	6 <sup>1</sup> / <sub>2</sub>	7
40	36	46	43	31	31	45 <sup>1</sup> / <sub>4</sub>	40 <sup>3</sup> / <sub>4</sub>	44 <sup>7</sup> / <sub>8</sub>	42 <sup>3</sup> / <sub>4</sub>	34 <sup>7</sup> / <sub>8</sub>	47 <sup>3</sup> / <sub>8</sub>	47 <sup>1</sup> / <sub>2</sub>	49 <sup>7</sup> / <sub>8</sub>	7	7	7 <sup>1</sup> / <sub>2</sub>
44	40	50	47	33 <sup>1</sup> / <sub>2</sub>	49	49	45	49 <sup>5</sup> / <sub>8</sub>	47 <sup>1</sup> / <sub>8</sub>	37 <sup>3</sup> / <sub>4</sub>	51	53	53 <sup>1</sup> / <sub>2</sub>	7	7 <sup>1</sup> / <sub>2</sub>	8
49	43 <sup>1</sup> / <sub>2</sub>	55	51 <sup>1</sup> / <sub>2</sub>	36	36	53 <sup>1</sup> / <sub>4</sub>	49 <sup>1</sup> / <sub>2</sub>	54 <sup>5</sup> / <sub>8</sub>	52	41 <sup>1</sup> / <sub>2</sub>	55	56 <sup>7</sup> / <sub>8</sub>	57 <sup>3</sup> / <sub>8</sub>	7	8	8 <sup>1</sup> / <sub>2</sub>
54	48	60 <sup>1</sup> / <sub>2</sub>	57	40	40	58 <sup>3</sup> / <sub>4</sub>	54 <sup>7</sup> / <sub>8</sub>	60 <sup>3</sup> / <sub>8</sub>	57 <sup>1</sup> / <sub>2</sub>	45 <sup>7</sup> / <sub>8</sub>	60 <sup>1</sup> / <sub>4</sub>	61 <sup>1</sup> / <sub>4</sub>	62	7	8 <sup>1</sup> / <sub>2</sub>	9
60	53	66 <sup>1</sup> / <sub>2</sub>	62 <sup>1</sup> / <sub>2</sub>	43	43	64 <sup>1</sup> / <sub>2</sub>	60 <sup>3</sup> / <sub>4</sub>	66 <sup>7</sup> / <sub>8</sub>	63 <sup>3</sup> / <sub>4</sub>	50 <sup>7</sup> / <sub>8</sub>	65	66 <sup>1</sup> / <sub>4</sub>	67 <sup>1</sup> / <sub>8</sub>	7	9	9 <sup>1</sup> / <sub>2</sub>
66	58	73	69	47	47	70 <sup>1</sup> / <sub>4</sub>	66 <sup>3</sup> / <sub>4</sub>	73 <sup>1</sup> / <sub>2</sub>	70	56	71	71 <sup>1</sup> / <sub>4</sub>	72 <sup>1</sup> / <sub>8</sub>	7	9 <sup>1</sup> / <sub>2</sub>	10
73	64	80 <sup>1</sup> / <sub>2</sub>	76	51 <sup>1</sup> / <sub>2</sub>	51 <sup>1</sup> / <sub>2</sub>	76 <sup>1</sup> / <sub>2</sub>	73 <sup>7</sup> / <sub>8</sub>	81 <sup>1</sup> / <sub>4</sub>	77 <sup>1</sup> / <sub>2</sub>	61 <sup>7</sup> / <sub>8</sub>	77	79 <sup>3</sup> / <sub>8</sub>	81 <sup>1</sup> / <sub>4</sub>	9	10	10 <sup>1</sup> / <sub>2</sub>

Size	L	M	N			O	P Q	R	T	U	a	b		C	d	Base holes
			Class 1	Class 2	Class 3							BAU TAU	TAD			
24	27 <sup>5</sup> / <sub>8</sub>	18 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	27 <sup>1</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>8</sub>	31 <sup>7</sup> / <sub>8</sub>	31 <sup>7</sup> / <sub>8</sub>	25 <sup>5</sup> / <sub>8</sub>	18 <sup>1</sup> / <sub>2</sub>	3/4
27	30 <sup>1</sup> / <sub>4</sub>	20 <sup>3</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	29	12 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>2</sub>	13 <sup>5</sup> / <sub>8</sub>	15 <sup>1</sup> / <sub>2</sub>	25 <sup>3</sup> / <sub>8</sub>	34 <sup>3</sup> / <sub>4</sub>	34 <sup>3</sup> / <sub>4</sub>	28 <sup>1</sup> / <sub>4</sub>	20 <sup>3</sup> / <sub>8</sub>	3/4
30	33 <sup>5</sup> / <sub>8</sub>	22 <sup>5</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	31 <sup>1</sup> / <sub>4</sub>	13 <sup>5</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>	14 <sup>7</sup> / <sub>8</sub>	16 <sup>7</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>4</sub>	38 <sup>3</sup> / <sub>8</sub>	38 <sup>3</sup> / <sub>8</sub>	31 <sup>3</sup> / <sub>8</sub>	22 <sup>5</sup> / <sub>8</sub>	3/4
33	36 <sup>7</sup> / <sub>8</sub>	24 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>2</sub>	14 <sup>3</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>4</sub>	16	18 <sup>1</sup> / <sub>4</sub>	31 <sup>1</sup> / <sub>8</sub>	42 <sup>1</sup> / <sub>8</sub>	42 <sup>1</sup> / <sub>8</sub>	34 <sup>5</sup> / <sub>8</sub>	25 <sup>1</sup> / <sub>4</sub>	3/4
36	41	27 <sup>1</sup> / <sub>2</sub>	3	3	4	33 <sup>1</sup> / <sub>2</sub>	40 <sup>1</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>4</sub>	17 <sup>1</sup> / <sub>2</sub>	24 <sup>1</sup> / <sub>2</sub>	34 <sup>3</sup> / <sub>8</sub>	47 <sup>7</sup> / <sub>8</sub>	57 <sup>1</sup> / <sub>4</sub>	38 <sup>1</sup> / <sub>4</sub>	27 <sup>1</sup> / <sub>2</sub>	7/8
40	44 <sup>3</sup> / <sub>4</sub>	30 <sup>3</sup> / <sub>8</sub>	3	3 <sup>1</sup> / <sub>8</sub>	5	36 <sup>3</sup> / <sub>8</sub>	44 <sup>1</sup> / <sub>4</sub>	16 <sup>3</sup> / <sub>4</sub>	19	26 <sup>1</sup> / <sub>4</sub>	38	52 <sup>1</sup> / <sub>8</sub>	62 <sup>1</sup> / <sub>4</sub>	42 <sup>1</sup> / <sub>8</sub>	30	7/8
44	49 <sup>3</sup> / <sub>4</sub>	33 <sup>1</sup> / <sub>2</sub>	3	5	5	39 <sup>1</sup> / <sub>2</sub>	48 <sup>5</sup> / <sub>8</sub>	18 <sup>1</sup> / <sub>4</sub>	21	28 <sup>3</sup> / <sub>4</sub>	42	57	68	46 <sup>1</sup> / <sub>2</sub>	33 <sup>5</sup> / <sub>8</sub>	7/8
49	54 <sup>3</sup> / <sub>4</sub>	36 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	5	5	42 <sup>7</sup> / <sub>8</sub>	53 <sup>1</sup> / <sub>2</sub>	20	23	31 <sup>1</sup> / <sub>4</sub>	46 <sup>1</sup> / <sub>8</sub>	62 <sup>1</sup> / <sub>4</sub>	74 <sup>3</sup> / <sub>8</sub>	51 <sup>1</sup> / <sub>4</sub>	36 <sup>1</sup> / <sub>2</sub>	7/8
54	60 <sup>1</sup> / <sub>4</sub>	40 <sup>3</sup> / <sub>4</sub>	4	5	5 <sup>1</sup> / <sub>4</sub>	48 <sup>3</sup> / <sub>4</sub>	59 <sup>1</sup> / <sub>2</sub>	22 <sup>3</sup> / <sub>8</sub>	25	35	51 <sup>1</sup> / <sub>8</sub>	69	82 <sup>3</sup> / <sub>8</sub>	56 <sup>3</sup> / <sub>4</sub>	41	1
60	67	45	4	5 <sup>1</sup> / <sub>4</sub>	5 <sup>3</sup> / <sub>8</sub>	53	65 <sup>5</sup> / <sub>8</sub>	24 <sup>1</sup> / <sub>2</sub>	26 <sup>1</sup> / <sub>2</sub>	38 <sup>1</sup> / <sub>2</sub>	56 <sup>5</sup> / <sub>8</sub>	75 <sup>1</sup> / <sub>2</sub>	90 <sup>5</sup> / <sub>8</sub>	61 <sup>7</sup> / <sub>8</sub>	45 <sup>3</sup> / <sub>8</sub>	1
66	73 <sup>1</sup> / <sub>2</sub>	49 <sup>1</sup> / <sub>2</sub>	5	5 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	59 <sup>1</sup> / <sub>2</sub>	72 <sup>1</sup> / <sub>2</sub>	27 <sup>1</sup> / <sub>4</sub>	29	42 <sup>1</sup> / <sub>4</sub>	62 <sup>1</sup> / <sub>4</sub>	82 <sup>3</sup> / <sub>4</sub>	99 <sup>1</sup> / <sub>8</sub>	69 <sup>1</sup> / <sub>8</sub>	49 <sup>7</sup> / <sub>8</sub>	1
73	81 <sup>1</sup> / <sub>2</sub>	54 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	7	64 <sup>3</sup> / <sub>4</sub>	79 <sup>7</sup> / <sub>8</sub>	29 <sup>7</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>2</sub>	46 <sup>1</sup> / <sub>4</sub>	68 <sup>7</sup> / <sub>8</sub>	91 <sup>1</sup> / <sub>4</sub>	108 <sup>7</sup> / <sub>8</sub>	76 <sup>3</sup> / <sub>8</sub>	55 <sup>1</sup> / <sub>8</sub>	1

\*For TH, BH, UB, DB, BAU and TAU discharge. J is from housing side over inlet collar. L, M, and D are outside dimensions. Tolerance: ± 1/8"

## FAN DISCHARGES – VIEWED FROM DRIVE SIDE



Clockwise—angular discharges at 45°

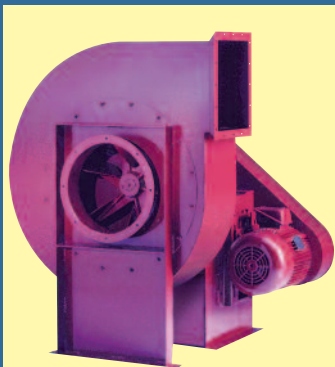
Counterclockwise—angular discharges at 45°

★ Down Blast and Top Angular Down discharge positions must be evaluated for clearance of accessories such as flanged outlet, outlet damper, unitary base, etc. Consult **nyb** with specific details.

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

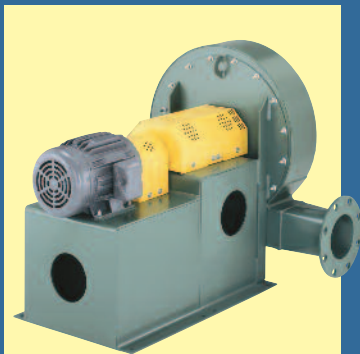
# COMPLETE SELECTION OF AIR-MOVING EQUIPMENT

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.

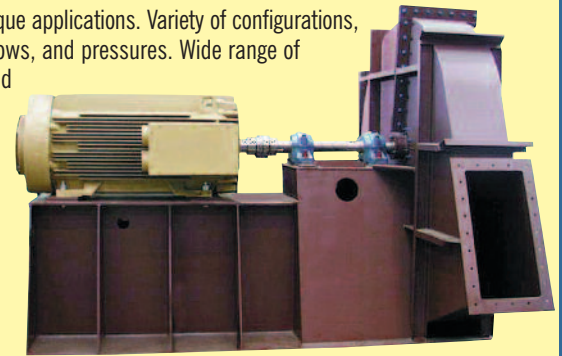


## FIBERGLASS REINFORCED PLASTIC [FRP]

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



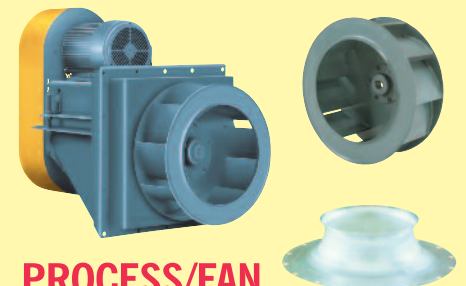
## ROOF VENTILATORS

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.