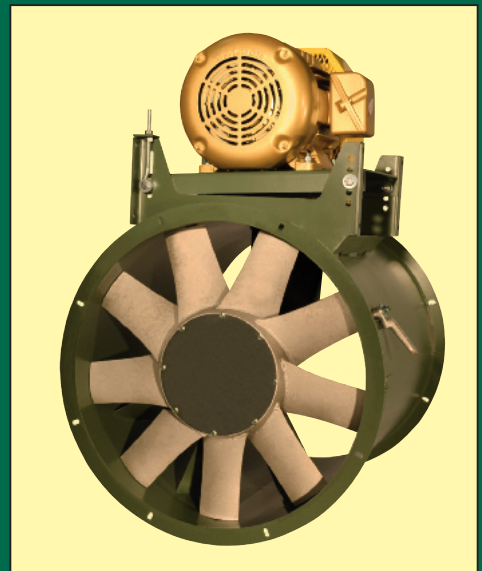
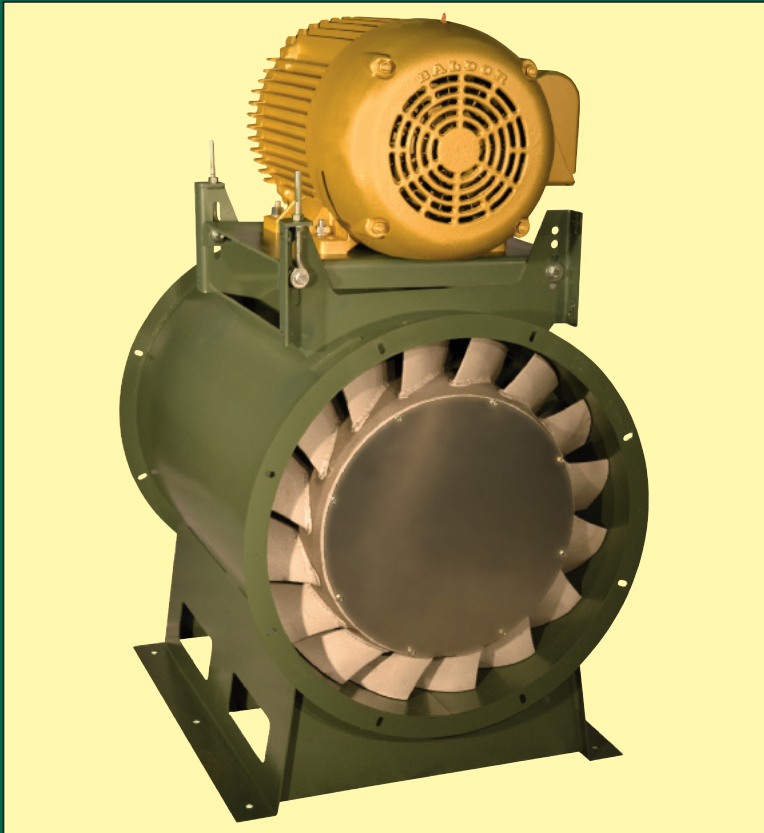


VANEAXIAL FIXED PITCH FANS



- Capacities to 100,000 CFM
- Static pressures to 8"WG
- Temperatures to 200°F.



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

Visit us on the Web: <http://www.nyb.com>
Phone: (800) 208-7918 Email: nyb@nyb.com

VANEAXIAL FANS

Vaneaxial Fixed Pitch Fans are designed and constructed for high pressure ventilating and industrial process applications requiring the compactness of an axial fan.

DESIGN FEATURES

- **Capacities**—to 100,000 CFM.
- **Pressures**—to 8" WG.
- **Fifteen belt-drive sizes**—12" through 60" wheel diameters.
- **Multiple hub ratios are available**—for increased -selection flexibility.
- **Choice of belt-drive configurations**—belt drive in five mounting positions.
- **Precision rolled tube**—for minimum tip clearance...maximum efficiency.

CONSTRUCTION FEATURES

- **Cast aluminum wheel**—airfoil blades provide highly efficient, quiet operation for clean-air applications.
- **Heavy-gauge welded components**—provide structural strength, durability, and minimal leakage.
- **Bearings**—selected to provide long service life... 50,000 hours average minimum L-10. External lubrication fittings are standard.
- **Industrial finish**—nyb green industrial grade coating.
- **Straightening vanes**—aerodynamically designed vanes convert velocity pressure to static pressure for maximum efficiency.
- **Flanged connections**—Sizes 12 to 60 welded flanges with slotted holes.
- **Lubrication**—extended lubrication lines with external fittings provided on all belt-drive Vaneaxial Fixed Pitch Fans.
- **Adjustable motor mount**—positive screw adjustment for easy belt-tensioning.
- **Shafting**—straightened to close tolerance to minimize “run out” and ensure smooth operation.
- **Balance**—all wheels are precision-balanced prior to assembly. Fans with motors and drives mounted by **nyb** are checked at the specified running speed.
- **Inner-tube construction**—isolates bearings and drive from airstream. Removable end cover allows access to bearings and drive.
- **Tapered hub with split taper bushing**—for ease in wheel removal.



SIZING NOMENCLATURE

6-digit model number designates the wheel diameter, hub size, and number of blades.

EXAMPLE		
16	08	09
Wheel diameter	Hub size [inches]	Number of blades

MOUNTING ARRANGEMENTS

Arrangement 9-M with motor and V-belt drive. Fork openings allow for easy maneuvering during installation.

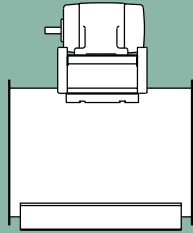


Arrangement 9-D with access door, motor, V-belt drive, and belt guard.



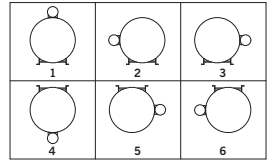
ARRANGEMENT

9-M WITH MOUNTING LEGS



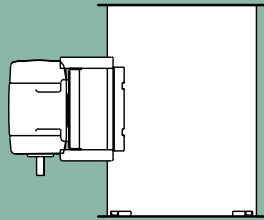
Fabricated mounting legs facilitate fan mounting on the floor, ceiling, or in a vertical position on a wall. Flange connections are standard.

9-M Mounting Positions viewed from discharge end



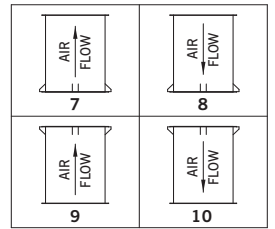
ARRANGEMENT

9-V FOR VERTICAL MOUNTING



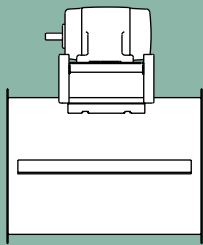
Fans are equipped with four mounting brackets suitable for floor, platform, or ceiling mounting. Motor is located on centerline between two of the four brackets on Arrangement 9. Flange connections are standard.

9-V Mounting Positions



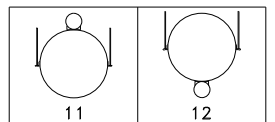
ARRANGEMENT

9-S FOR SUSPENDED MOUNTING



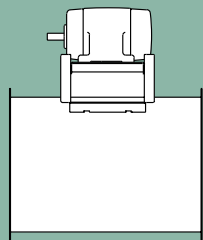
Fans for suspended mounting are equipped with side supports suitable for attachment to rods hung from the ceiling structure. Flange connections are standard.

9-S Mounting Positions



ARRANGEMENT

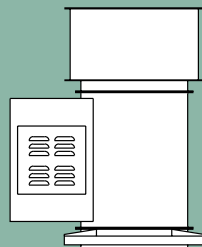
9-D FOR DUCT MOUNTING



Units feature flanges on inlet and discharge for mounting to the duct work.

ARRANGEMENT

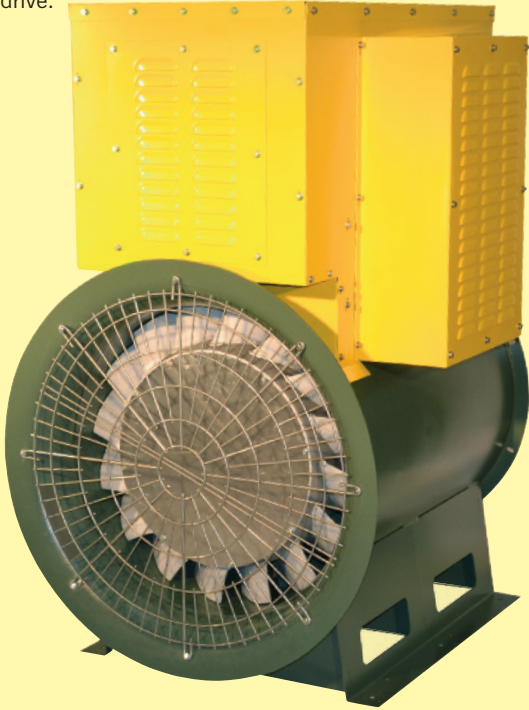
9-R FOR ROOF MOUNTING



Roof-mounted fans are furnished with curb caps and collars extending below the curb cap for easy connection. Stackhoods and weather covers are optional.

ACCESSORIES AND MODIFICATIONS

Arrangement 9-M
with inlet bell with guard,
weather cover, motor, and
V-belt drive.



1. INLET BELL WITH GUARD

Inlet bell minimizes losses associated with non-ducted inlet applications. Includes wire guard.

2. VIBRATION ISOLATION

–not shown
Rubber-in-shear or spring-type isolation mounts reduce the transmission of vibration to the mounting structure.

3. SAFETY EQUIPMENT/WEATHER COVER

Belt guards, inlet and outlet guards, and louvered weather covers are available. Selection of appropriate safety accessories is the responsibility of the system designer familiar with the specific installation.

4. COMPANION FLANGES

–not shown
Fit flush with fan inlet and outlet flanges, provided with matching hole pattern.

5. STACK HOOD

Stack hood with built-in back-draft dampers for vertical outdoor exhaust applications.

6. CURB CAP

Gusseted cover with nailer holes on perimeter includes flange for vertical fan mounting.

7. DRAINS

–not shown
For horizontal mounted fans...drain located at the lowest point of the housing tube.

8. ACCESS DOOR

Gasketed, latch-type door swings open on hinges after turning cam levers...bolt-on door also available...provides visual access to wheel...available in all sizes.

9. SHAFT SEAL

–not shown
Ceramic-felt seal elements encased between metal backing plate and retaining disc...elements can be easily split for field installation and maintenance...lubricated lip seals with extended lines are also available.

10. MOTORS AND DRIVES

A wide-array of motor and drive components are available factory-mounted by **nyb**.

11. DAMPERS

–not shown
Bolt-on vortex damper assembly provides volume control...for modulating systems...electric and pneumatic damper operators also available.

12. SPARK-RESISTANT CONSTRUCTION

–not shown
AMCA B [wheel type] SRC and AMCA C [buffer type] SRC construction available on Sizes 16-60. SRC construction not available with inlet damper or inlet guard.

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

HOUSINGS AND STRUCTURALS

Special corrosion resistant 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.



Arrangement 9-R with
stack hood, curb cap,
access door, motor, V-belt
drive, and belt guard.

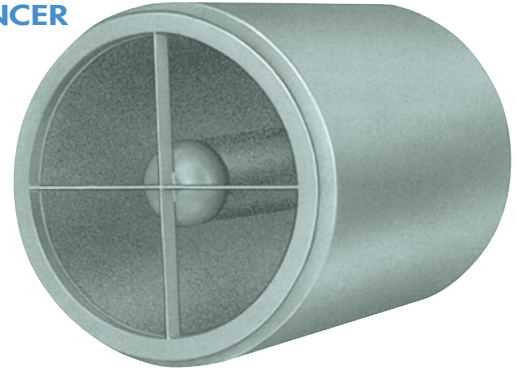
ACCESSORY PERFORMANCE

INLET BELL

Catalog ratings shown in this bulletin are for Vaneaxial Fixed Pitch Fans with free inlet and ducted outlet. When no inlet duct is used, entrance loss must be added to the static pressure calculated for the system. For bare inlets, that loss is equal to the fan velocity pressure. **Example:** 4200 FPM velocity = 1.1"WG [see Chart I at right]. Inlet bells render such loss negligible and are available at nominal cost. Sizes 12 through 48 constructed of fiberglass reinforced plastic; Sizes 54 and 60 constructed of steel.

CHART I VELOCITY PRESSURE	
Velocity [FPM]	VP
1000	.062
1400	.122
1800	.202
2200	.301
2600	.421
3000	.560
3400	.719
3800	.899
4200	1.098
4800	1.317
5000	1.556
5200	1.686
5400	1.815
5600	1.955
5800	2.093
6000	2.244

SILENCER



Available for all sizes of Vaneaxial Fixed Pitch Fans with matching standard flanges for either inlet or outlet applications. Silencers are available in two sizes to better match system cost as well as sound attenuation parameters. All silencers utilize heavy-welded steel construction filled with high-density acoustical absorption material. For more detailed application information and attenuation performance, refer to Engineering Supplement ES-673.

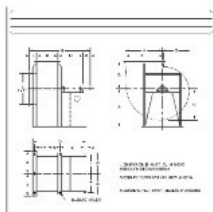
SAFETY EQUIPMENT

Safe operation of air-moving equipment is dependent on proper installation and maintenance. This includes selection and use of appropriate safety accessories for the specific installation. Such safety accessories are available from **nyb**. However, selection of the appropriate devices is the responsibility of the system designer who must be aware of the fan location, fan accessibility in the particular installation, and adjacent equipment. Neither **nyb** nor its sales representatives are in a position to make such a determination. The system designer

must consider providing guards for all exposed moving parts as well as protection from access to high velocity airstreams. Improper application, installation, maintenance, or safety guard selection can create danger to life and limb of personnel. Users and/or installers should read "Recommended Safety Practices for Air Moving Devices" as published by the Air Movement and Control Association, 30 West University Drive, Arlington Heights, Illinois 60004.

FAN TO SIZE AND DRAWINGS ON DEMAND

Fan to Size online allows customers to select fans without the need to download software on their computers or tablets. Fans can be selected by product categories, types or applications. Additionally, drawings are generated to supplement fan selections.



FAN TO SIZE SELECTION BENEFITS

- Compare multiple product lines.
- Metric or English units.
- Add silencers.
- Add accessories.
- Save data for future use.
- Calculate density based on rarefaction, compression, and molecular weight.

DRAWINGS ON DEMAND BENEFITS

- Generate drawing package specifically tailored to the user's application requirements.
- Fan-performance curves.
- Select fan's rotation, discharge position, motor frame size and u-base.
- Add accessories (dampers, silencers, stack hoods, curb caps)
- Installation and Maintenance Manuals.

How to Use Capacity Tables

For a given fan size, CFM, and static pressure, capacity tables can be used to obtain outlet velocity, fan RPM, and BHP. If capacities are at conditions other than 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 belt-drive fan is required for 18000 CFM at 3"WG at 100°F and 6000 feet above sea level.
If conditions other than standard are involved, correct static pressure for actual altitude and temperature using Chart IV.	1	Chart IV gives a 1.33 factor for 100°F and 6000 feet. Corrected SP is 3"WG x 1.33 = 4"WG at 70°F and sea level. Select fan from capacity tables for 18000 CFM at 4"WG.
Select size, RPM, and BHP of fan from capacity table.	2	A Size 27-12-09 is selected for 18000 CFM at 4"WG at 2859 RPM and 23.9 BHP.
Check maximum safe speed of fan at operating temperatures as shown in Charts II or III.	3	From Chart II and III, the maximum safe speed for a Size 27-12-09 fan at 100°F and 2906 RPM (2965 x .98). Fan is satisfactory for operation at 100°F.
Determine actual performance at operating conditions by correcting SP and BHP.	4	Actual performance: 18000 CFM at 3"WG (4" ÷ 1.33) at 2859 RPM at 18.0 BHP (22.7 ÷ 1.33) at 100°F and 6000 feet above sea level.

MAXIMUM SAFE SPEED INFORMATION

Chart II details maximum safe speed of standard wheels at 70°F. When temperatures are involved, multiply the appropriate safe operating speed shown in Chart II by the factor shown in Chart III. Maximum operating temperature for standard fans is 120°F. For temperatures above 120°F, as indicated by tinted areas in Charts III and IV select drive for a minimum of 2.0 service factor.

CHART II

MAXIMUM FAN STRUCTURE OPERATING SPEEDS FOR TEMPERATURES TO 200°F

Maximum operating speeds apply only to wheels operated at or below stated temperature and free of material build-up, corrosion, or wear.

Size	RPM	Size	RPM
12-06-06	4500	29-12-09	2760
14-06-06	4500	29-16-12	2760
14-08-08	4500	29-20-16	2760
16-08-09	4500	32-16-09	2380
16-12-12	4300	32-20-12	2380
18-08-09	4500	36-16-09	2130
18-12-12	4200	36-20-12	2130
21-08-09	3900	36-26-15	2130
21-12-12	3900	38-16-09	2020
21-16-16	3550	38-20-12	1750
24-12-09	3170	38-26-15	2020
24-16-12	3170	42-20-09	1770
27-12-09	2965	42-26-12	1770
27-16-12	2965	48-20-09	1600
27-20-16	2965	48-26-12	1600
		54-26-09	1385
		60-26-09	1200

CHART III

TEMPERATURE CORRECTION FACTORS FOR WHEEL SAFE SPEEDS

Temp. °F	Aluminum Wheel
-50	1.00
70	1.00
100	.98
200	.98

* nyb recommends low temperature grease for applications below -20°F

CHART IV CORRECTION FACTORS FOR TEMPERATURE AND ALTITUDE

Temperature °F	Altitude—feet above sea level												
	0	500	1000	1500	2000	3000	4000	5000	6000	7000	8000	9000	10000
-50	.77	.79	.80	.82	.83	.86	.89	.92	.96	1.00	1.04	1.08	1.12
-25	.82	.84	.85	.87	.89	.92	.95	.98	1.03	1.07	1.11	1.15	1.19
0	.87	.89	.91	.92	.94	.97	1.01	1.04	1.09	1.13	1.18	1.22	1.26
20	.91	.93	.95	.97	.98	1.02	1.06	1.09	1.14	1.18	1.23	1.27	1.32
40	.94	.96	.98	1.00	1.02	1.05	1.09	1.13	1.18	1.22	1.27	1.32	1.36
60	.98	1.00	1.02	1.04	1.06	1.10	1.14	1.18	1.23	1.27	1.32	1.37	1.42
70	1.00	1.02	1.04	1.06	1.08	1.12	1.16	1.20	1.25	1.30	1.35	1.40	1.45
80	1.02	1.04	1.06	1.08	1.10	1.14	1.18	1.22	1.28	1.33	1.38	1.43	1.48
100	1.06	1.08	1.10	1.12	1.15	1.19	1.23	1.27	1.33	1.38	1.43	1.48	1.54
120	1.09	1.11	1.13	1.16	1.18	1.22	1.26	1.31	1.36	1.42	1.47	1.53	1.58
140	1.13	1.15	1.18	1.20	1.22	1.27	1.31	1.36	1.41	1.47	1.53	1.58	1.64
160	1.17	1.19	1.22	1.24	1.26	1.31	1.36	1.40	1.46	1.52	1.58	1.64	1.70
180	1.21	1.23	1.26	1.28	1.31	1.36	1.40	1.45	1.51	1.57	1.63	1.69	1.75
200	1.25	1.28	1.30	1.33	1.35	1.40	1.45	1.50	1.56	1.63	1.69	1.75	1.81

BELT-DRIVE VANEAXIAL FIXED PITCH FANS

Belt-drive Vaneaxial Fixed Pitch Fans are available in Sizes 12 through 60 for more aggressive airstreams or applications where temperatures may reach 200°F. Fans include an inner tube and belt-well assembly that isolates bearings and drive components from airborne moisture and contaminants. In the event that system pressures or flow requirements change, belt-drive Vaneaxial Fans offer inherent performance flexibility. New performance is easily achieved by modifying readily accessible drives.



SIZE 12 06-06 40° Angle	CFM	OV	1/4"SP		1/2"SP		2/3"SP		3/4"SP		1"SP		1 1/4"SP		1 1/2"SP		1 3/4"SP		2"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
	1500	1852	2344	0.43	2532	0.56	2632	0.64	2738	0.72	2980	0.92									
	1800	2222	2742	0.67	2896	0.82	2976	0.90	3060	0.99	3230	1.18	3406	1.39	3647	1.67					
	2000	2469	3010	0.88	3154	1.05	3225	1.14	3296	1.23	3442	1.42	3598	1.63	3754	1.86	3950	2.15	4254	2.59	
	2200	2716	3280	1.14	3417	1.32	3477	1.41	3545	1.51	3672	1.71	3811	1.93	3950	2.16	4090	2.41	4250	2.69	
	2400	2963	3556	1.44	3680	1.64	3740	1.74	3800	1.84	3916	2.05	4037	2.27	4162	2.51	4292	2.77	4422	3.04	
	2600	3209	3830	1.79	3946	2.01	4004	2.12	4057	2.22	4168	2.45	4274	2.67	4385	2.92					
	2800	3456	4108	2.21	4221	2.44	4272	2.55	4322	2.67	4424	2.90									
	3000	3703	4385	2.68	4490	2.92															

SIZE 14 06-06 40° Angle	CFM	OV	1/4"SP		1/2"SP		2/3"SP		3/4"SP		1"SP		1 1/4"SP		1 1/2"SP		1 3/4"SP		2"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
	2400	2186	2295	0.60	2461	0.77	2547	0.87	2627	0.96	2810	1.19									
	2700	2459	2541	0.80	2693	1.00	2764	1.09	2839	1.20	2990	1.42	3150	1.67	3340	1.97					
	3000	2733	2794	1.06	2925	1.26	2994	1.37	3060	1.48	3196	1.72	3331	1.97	3472	2.24	3638	2.55			
	3400	3097	3134	1.48	3250	1.71	3311	1.83	3366	1.94	3486	2.19	3604	2.46	3724	2.74	3844	3.04	3975	3.36	
	3800	3461	3477	2.00	3580	2.25	3632	2.38	3684	2.51	3791	2.78	3898	3.07	4004	3.36	4108	3.67	4216	3.99	
	4200	3826	3822	2.65	3916	2.92	3964	3.06	4008	3.19	4104	3.49	4201	3.79	4298	4.11	4394	4.43	4490	4.77	
	4400	4008	3994	3.01	4086	3.30	4128	3.44	4176	3.60	4264	3.89	4356	4.20	4447	4.53					
	4600	4190	4168	3.41	4254	3.71	4298	3.87	4340	4.02	4424	4.32									

SIZE 14 08-08 40° Angle	CFM	OV	1/4"SP		1/2"SP		3/4"SP		1"SP		1 1/4"SP		1 1/2"SP		1 3/4"SP		2"SP		2 1/4"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
	2800	2551	2890	1.33	2980	1.50	3065	1.66	3156	1.84	3250	2.04	3346	2.24							
	3000	2733	3085	1.61	3165	1.78	3250	1.96	3331	2.14	3417	2.35	3506	2.56	3594	2.77					
	3200	2915	3280	1.93	3356	2.11	3437	2.31	3512	2.50	3590	2.70	3672	2.93	3752	3.15	3836	3.37			
	3400	3097	3477	2.29	3550	2.49	3622	2.69	3694	2.89	3768	3.10	3840	3.32	3918	3.56	3994	3.80	4072	4.03	
	3600	3279	3672	2.69	3740	2.90	3811	3.12	3878	3.33	3946	3.54	4018	3.78	4086	4.01	4158	4.26	4232	4.52	
	3800	3461	3868	3.14	3936	3.37	3998	3.58	4062	3.80	4128	4.03	4192	4.26	4260	4.51	4328	4.77	4396	5.04	
	4000	3644	4066	3.64	4128	3.87	4190	4.11	4250	4.34	4312	4.57	4374	4.81	4436	5.06	4500	5.33			
	4200	3826	4264	4.19	4322	4.43	4380	4.67	4438	4.92	4500	5.18									

SIZE 16 08-09 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/4"SP		1 1/2"SP		1 3/4"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
	4200	2916	2814	2.11	2980	2.59	3060	2.84	3145	3.11	3230	3.39	3326	3.71	3545	4.47					
	4600	3194	3050	2.67	3200	3.17	3276	3.44	3351	3.72	3428	4.02	3508	4.33	3680	5.02	3884	5.88			
	5000	3472	3291	3.34	3428	3.86	3497	4.15	3570	4.46	3638	4.76	3709	5.09	3854	5.76	4014	6.51	4206	7.47	
	5200	3611	3412	3.72	3545	4.26	3612	4.55	3680	4.86	3744	5.17	3811	5.49	3950	6.18	4096	6.92	4268	7.82	
	5400	3749	3534	4.12	3662	4.68	3724	4.97	3791	5.29	3854	5.61	3918	5.94	4048	6.64	4186	7.38	4336	8.21	
	5600	3888	3652	4.54	3776	5.12	3840	5.43	3902	5.75	3964	6.08	4026	6.42	4150	7.12	4278	7.86	4418	8.68	
	5800	4027	3776	5.01	3893	5.59	3955	5.92	4014	6.24	4076	6.58	4134	6.92	4254	7.64	4376	8.40			
	6000	4166	3898	5.51	4014	6.12	4072	6.44	4128	6.76	4186	7.10	4246	7.47	4360	8.19	4478	8.97			

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 VANEAXIAL FIXED PITCH FANS

SIZE 16 12-12 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP		5"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
2400	1666	2110	1.20	2246	1.48	2390	1.78	2541	2.11	2713	2.49	2890	2.91								
2600	1805	2260	1.47	2390	1.78	2516	2.08	2658	2.43	2799	2.80	2960	3.22	3125	3.69						
2800	1944	2415	1.79	2536	2.11	2653	2.44	2779	2.80	2905	3.17	3040	3.57	3194	4.04						
3200	2222	2728	2.55	2834	2.93	2936	3.29	3040	3.67	3150	4.08	3265	4.51	3371	4.93	3346	4.54			3766	6.52
3600	2500	3045	3.53	3140	3.95	3234	4.37	3322	4.78	3417	5.22	3512	5.66	3612	6.13	3709	6.60			3918	7.64
4000	2777	3366	4.75	3448	5.20	3534	5.67	3616	6.12	3698	6.59	3780	7.06	3864	7.54	3955	8.07			4134	9.13
4200	2916	3526	5.45	3604	5.92	3686	6.41	3766	6.90	3844	7.38	3918	7.85	3998	8.36	4082	8.89			4254	9.99
4400	3055	3690	6.24	3762	6.71	3836	7.20	3916	7.73	3990	8.24	4062	8.73	4139	9.27	4212	9.77				

SIZE 18 08-09 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP		4 1/2"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
5000	2752	2366	1.87	2552	2.49	2738	3.12	2930	3.82	3180	4.72										
5500	3028	2567	2.36	2733	3.02	2905	3.71	3074	4.42	3254	5.22	3486	6.23								
6000	3303	2774	2.94	2925	3.64	3080	4.39	3236	5.14	3391	5.94	3560	6.83	3768	7.91						
6500	3578	2980	3.62	3120	4.36	3260	5.15	3406	5.96	3545	6.76	3690	7.65	3848	8.63	4037	9.79			4260	11.2
7000	3853	3190	4.41	3320	5.18	3448	6.02	3584	6.90	3714	7.75	3848	8.66	3980	9.60	4124	10.6			4294	11.9
7500	4129	3397	5.29	3520	6.11	3642	7.01	3766	7.94	3888	8.85	4014	9.79	4134	10.7	4260	11.8			4394	12.9
8000	4404	3612	6.33	3724	7.17	3836	8.09	3950	9.06	4068	10.1	4186	11.1	4303	12.1	4414	13.1				
8500	4679	3822	7.47	3930	8.37	4037	9.34	4144	10.4	4250	11.4	4360	12.4	4472	13.5						

SIZE 18 12-12 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
5000	2752	2461	3.21	2562	3.79	2658	4.35	2753	4.92	2945	6.13	3156	7.53	3397	9.10						
5300	2918	2598	3.76	2693	4.37	2784	4.96	2874	5.56	3054	6.80	3245	8.22	3457	9.78						
5600	3083	2733	4.35	2824	5.00	2910	5.62	2996	6.26	3165	7.53	3342	8.97	3534	10.57						
5900	3248	2870	5.01	2956	5.69	3040	6.37	3120	7.02	3285	8.38	3446	9.80	3618	11.4	3744	12.28			4014	15.0
6200	3413	3010	5.76	3090	6.46	3170	7.17	3245	7.84	3402	9.26	3556	10.7	3714	12.3	3888	14.1			4076	16.0
6500	3578	3145	6.54	3225	7.30	3300	8.03	3376	8.73	3522	10.2	3670	11.7	3820	13.4	3975	15.1			4148	17.0
7000	3853	3380	8.10	3448	8.84	3520	9.65	3590	10.4	3729	12.0	3864	13.6	4000	15.3	4139	17.0				
7500	4129	3608	9.79	3676	10.6	3744	11.5	3806	12.3	3936	14.0	4066	15.7	4192	17.4						

SIZE 21 08-09 40° Angle	CFM	OV	1/4"SP		1/2"SP		3/4"SP		1"SP		1 1/4"SP		1 1/2"SP		1 3/4"SP		2"SP		2 1/2"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
7500	3063	2280	2.37	2370	2.77	2456	3.17	2536	3.58	2616	4.02	2702	4.49	2788	4.97						
8000	3267	2424	2.84	2501	3.22	2587	3.67	2664	4.10	2738	4.55	2814	5.02	2896	5.53	2976	6.04				
8500	3472	2562	3.33	2638	3.76	2718	4.21	2794	4.68	2865	5.15	2936	5.64	3010	6.16	3085	6.69				
9000	3676	2708	3.92	2779	4.37	2850	4.82	2925	5.32	2994	5.82	3060	6.32	3125	6.83	3196	7.39	3340	8.53		
9500	3880	2848	4.54	2916	5.02	2985	5.50	3056	6.02	3125	6.55	3185	7.05	3250	7.61	3311	8.14	3448	9.34		
10000	4084	2990	5.23	3056	5.74	3120	6.25	3185	6.76	3254	7.33	3316	7.88	3376	8.44	3437	9.02	3560	10.2		
11000	4493	3280	6.88	3336	7.40	3397	7.98	3457	8.55	3516	9.12	3576	9.72	3632	10.3	3686	10.9	3796	12.2		
12000	4901	3565	8.79	3618	9.37	3672	9.98	3729	10.6	3782	11.2	3840	11.9	3893	12.5						

SIZE 21 12-12 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
8000	3267	2175	4.15	2266	4.95	2355	5.76	2446	6.64	2638	8.48	2844	10.6								
9000	3676	2426	5.69	2506	6.56	2587	7.47	2668	8.43	2830	10.4	3005	12.6	3185	14.9	3386	17.7				
10000	4084	2678	7.57	2753	8.57	2824	9.54	2894	10.5	3040	12.7	3190	14.9	3346	17.3	3508	20.0			3686	22.9
10500	4289	2808	8.70	2874	9.67	2945	10.7	3010	11.7	3150	14.0	3291	16.3	3437	18.7	3588	21.4	3748	24.3		
11000	4493	2934	9.89	3000	11.0	3065	12.0	3130	13.1	3260	15.4	3391	17.8	3534	20.3	3672	22.9			3820	25.8
11500	4697	3060	11.2	3125	12.3	3185	13.4	3250	14.6	3371	16.8	3497	19.3	3632	22.0	3766	24.7				
12000	4901	3190	12.6	3250	13.8	3306	14.9	3366	16.0	3488	18.5	3608	21.1	3729	23.7	3858	26.4				
13000	5310	3446	15.9	3497	17.0	3554	18.3	3612	19.6	3720	22.1	3830	24.8								

SIZE 21 16-16 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
4500	1838	1697	1.99	1797	2.57	1898	3.14	2000	3.74	2215	5.07	2441	6.55								
5000	2042	1868	2.62	1958	3.24	2046	3.87	2135	4.49	2324	5.90	2516	7.39	2728	9.12	2945	11.0				
5500	2246	2035	3.34	2120	4.01	2200	4.73	2280	5.39	2450	6.87	2618	8.42	2799	10.1	2990	12.0			3190	14.1
6000	2451	2206	4.21	2284	4.92	2355	5.66	2430	6.44	2582	7.96	2738	9.63	2896	11.4	3060	13.3	3240	15.4		
6500	2655	2380	5.26	2450	5.99	2516	6.75	2587	7.65	2724	9.24	2865	11.0	3010	12.8	3156	14.7	3311	16.8		
7000	2859	2552	6.44	2616	7.20	2682	8.05	2744	8.94	2870	10.7	3000	12.5	3134	14.4	3270	16.4	3406	18.5		
8000	3267	2896	9.30	2954	10.2	3014	11.1	3070	12.1	3180	14.2	3291	16.2	3406	18.2	3520	20.3				
9000	3676	3245	13.0	3296	14.0	3351	15.1	3397	16.0	3497	18.3										

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).

PERFORMANCE FOR VANEAXIAL FIXED PITCH FANS

SIZE 24 12-09 40° Angle	CFM	OV	1/2"SP		3/4"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
10000	3086	1828	4.06	1883	4.58	1944	5.12	2075	6.38	2190	7.54	2324	9.03								
11000	3395	1989	5.14	2040	5.74	2095	6.35	2210	7.61	2320	8.94	2426	10.3								
12000	3703	2150	6.40	2195	7.03	2244	7.70	2350	9.06	2456	10.5	2552	11.9								
13000	4012	2315	7.91	2360	8.64	2400	9.30	2492	10.7	2592	12.2	2688	13.9								
14000	4320	2481	9.66	2521	10.4	2562	11.2	2642	12.7	2733	14.2	2824	15.9								
14500	4475	2567	10.7	2602	11.4	2642	12.2	2718	13.7	2804	15.3	2894	17.1								
15000	4629	2647	11.6	2684	12.4	2722	13.3	2799	14.9	2876	16.5	2960	18.2								
16000	4938	2814	13.9	2850	14.8	2885	15.6	2954	17.3	3025	19.0	3105	20.8								
																				2885	17.1
																				2974	19.0
																				3080	21.0
																				3140	22.2

SIZE 24 16-12 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	2469	1596	3.82	1680	4.65	1766	5.55	1854	6.50	2040	8.63											
10000	3086	1958	6.91	2024	7.90	2095	9.00	2160	10.1	2300	12.4											
11000	3395	2140	8.95	2200	10.0	2264	11.2	2324	12.4	2450	14.9											
12000	3703	2324	11.4	2380	12.6	2435	13.8	2492	15.1	2607	17.7											
13000	4012	2510	14.3	2558	15.5	2612	16.9	2664	18.2	2770	21.0											
13500	4166	2602	15.9	2647	17.1	2702	18.6	2753	20.0	2854	22.9											
14000	4320	2693	17.6	2742	19.0	2788	20.3	2839	21.8	2936	24.8											
15000	4629	2880	21.4	2925	22.9	2970	24.4	3014	25.9	3105	29.1											

SIZE 27 12-09 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP		5"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	2936	1580	3.59	1702	4.85	1834	6.25	1964	7.77	2090	9.39											
13000	3181	1691	4.34	1803	5.68	1924	7.13	2044	8.72	2164	10.4											
14000	3425	1803	5.21	1909	6.62	2020	8.17	2130	9.78	2240	11.5											
16000	3915	2035	7.41	2126	8.84	2220	10.6	2315	12.3	2415	14.2											
16500	4037	2090	8.00	2184	9.54	2270	11.2	2364	13.1	2461	15.0											
17000	4159	2146	8.64	2235	10.1	2324	12.0	2415	13.9	2506	15.7											
18000	4404	2264	10.1	2350	11.7	2430	13.5	2512	15.4	2598	17.4											
20000	4893	2496	13.5	2576	15.2	2647	17.0	2722	19.2	2799	21.4											

SIZE 27 16-12 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	2447	1265	3.15	1360	4.13	1450	5.20	1545	6.39	1737	9.00											
13000	3181	1596	6.08	1666	7.28	1742	8.59	1812	9.93	1949	12.8											
16000	3915	1938	10.7	1994	12.1	2050	13.6	2110	15.1	2226	18.4											
17000	4159	2050	12.5	2104	14.1	2155	15.6	2215	17.3	2324	20.7											
18000	4404	2166	14.7	2215	16.3	2264	17.9	2315	19.6	2424	23.2											
19000	4649	2280	17.1	2326	18.8	2375	20.6	2424	22.3	2521	25.9											
20000	4893	2395	19.7	2441	21.6	2486	23.4	2530	25.2	2627	29.0											
21000	5138	2512	22.7	2552	24.5	2596	26.5	2638	28.3	2728	32.3											

SIZE 27 20-16 40° Angle	CFM	OV	1/2"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	RPM	BHP
8000	1957	1305	3.02	1385	3.89	1540	5.78	1686	7.88	1843	10.2											
9000	2202	1450	4.06	1520	4.97	1656	7.09	1797	9.35	1924	11.7											
10000	2447	1596	5.33	1660	6.36	1782	8.62	1909	11.0	2026	13.5											
11000	2691	1742	6.83	1797	7.91	1914	10.3	2026	13.0	2144	15.7											
11500	2814	1818	7.74	1872	8.89	1984	11.4	2086	14.1	2200	16.8											
12000	2936	1888	8.60	1944	9.88	2050	12.4	2150	15.2	2260	18.2											
14000	3425	2186	13.2	2235	14.6	2326	17.5	2415	20.5	2501	23.9											
16000	3915	2486	19.2	2530	20.9	2607	24.1	2693	27.5	2768	31.0											

SIZE 29 12-09 40° Angle	CFM	OV	1/2"SP		3/4"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
10000	2152	1276	2.16	1360	2.76	1445	3.33	1616	4.67												
12000	2583	1465	3.16	1540	3.82	1611	4.55	1757	5.98												
14000	3013	1660	4.51	1728	5.23	1792	6.00	1909	7.63	</											

PERFORMANCE FOR VANEAXIAL FIXED PITCH FANS

SIZE 29 16-12 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	14000	3013	1410	5.75	1490	7.13	1565	8.55	1631	10.0	1782	13.3	1944	17.1						
	16000	3444	1591	8.12	1660	9.70	1732	11.3	1792	12.9	1914	16.4	2046	20.2						
	18000	3874	1777	11.2	1834	12.8	1898	14.7	1960	16.4	2064	20.1	2175	24.1	2295	28.5	2420	33.3		
	19000	4089	1872	13.1	1924	14.7	1984	16.7	2044	18.5	2146	22.3	2246	26.4	2360	30.9	2470	35.5	2592	40.7
	20000	4304	1964	15.0	2015	16.8	2070	18.8	2126	20.7	2230	24.7	2320	28.8	2426	33.4	2530	38.2	2638	43.2
	22000	4735	2150	19.5	2195	21.4	2244	23.6	2295	25.8	2395	30.0	2481	34.4	2567	39.2	2664	44.3	2759	49.4
	24000	5165	2340	25.1	2380	27.1	2420	29.1	2466	31.5	2562	36.3								
	26000	5596	2526	31.4	2567	33.7	2602	35.8	2642	38.3	2728	43.4								

SIZE 29 20-16 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	11000	2367	1310	4.33	1380	5.48	1454	6.74	1516	7.95	1656	10.7	1786	13.5						
	13000	2798	1525	6.70	1585	7.94	1642	9.31	1706	10.8	1814	13.8	1929	16.9	2046	20.3	2160	23.9		
	15000	3228	1737	9.69	1797	11.3	1848	12.8	1894	14.3	2000	17.7	2095	21.2	2195	24.9	2300	28.7	2395	32.6
	16000	3444	1848	11.6	1903	13.3	1954	14.9	1998	16.5	2095	20.0	2186	23.6	2270	27.3	2370	31.3	2470	35.6
	17000	3659	1958	13.7	2009	15.5	2055	17.1	2100	18.9	2190	22.5	2280	26.3	2360	30.2	2441	34.1	2541	38.6
	18000	3874	2066	16.0	2115	17.9	2160	19.6	2204	21.5	2284	25.2	2375	29.3	2456	33.5	2530	37.6	2612	41.9
	20000	4304	2290	21.7	2330	23.6	2370	25.5	2415	27.7	2486	31.6	2562	35.9	2642	40.4	2718	45.2		
	22000	4735	2510	28.3	2547	30.5	2582	32.5	2622	34.8	2693	39.2								

SIZE 32 16-09 40° Angle	CFM	OV	1/2"SP		3/4"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	18000	3124	1325	6.50	1374	7.44	1416	8.35	1510	10.4	1602	12.5	1702	14.9						
	20000	3472	1454	8.51	1496	9.46	1536	10.5	1616	12.6	1702	14.9	1874	20.0						
	21000	3645	1516	9.58	1560	10.7	1600	11.7	1676	14.0	1752	16.2	1834	18.7	1914	21.3	2000	24.2		
	22000	3819	1585	10.9	1622	12.0	1660	13.0	1732	15.3	1808	17.8	1883	20.2	1960	22.9	2040	25.8	2124	28.9
	23000	3992	1651	12.3	1686	13.4	1722	14.4	1792	16.8	1863	19.3	1934	21.9	2009	24.6	2080	27.4	2160	30.5
	24000	4166	1712	13.6	1748	14.8	1786	16.1	1854	18.5	1918	21.0	1989	23.7	2060	26.5	2130	29.4	2200	32.3
	26000	4513	1843	16.8	1878	18.2	1909	19.4	1974	22.0	2035	24.7	2095	27.4	2164	30.6	2226	33.4	2290	36.5
	28000	4860	1978	20.7	2009	22.2	2035	23.3	2100	26.2	2155	28.9	2215	32.1	2270	35.0	2330	38.1		

SIZE 32 20-12 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		4"SP		5"SP		6"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	14000	2430	1230	5.53	1294	6.88	1360	8.34	1425	9.86	1485	11.4	1560	13.2						
	16000	2777	1390	7.78	1445	9.31	1500	10.9	1556	12.5	1616	14.3	1671	16.1	1797	20.1				
	17000	2951	1470	9.10	1520	10.7	1570	12.3	1626	14.1	1682	16.0	1737	17.9	1843	21.8	1974	26.4		
	18000	3124	1550	10.6	1596	12.3	1646	14.0	1697	15.8	1748	17.7	1803	19.8	1898	23.7	2015	28.4		
	19000	3298	1631	12.2	1676	14.1	1722	15.8	1768	17.7	1818	19.7	1868	21.8	1960	25.9	2060	30.5	2175	35.5
	20000	3472	1712	14.0	1757	16.1	1797	17.8	1843	19.8	1888	21.8	1934	23.9	2026	28.3	2115	32.9	2215	37.8
	22000	3819	1874	18.2	1914	20.4	1954	22.6	1994	24.6	2035	26.8	2075	29.0	2160	33.6	2244	38.6	2324	43.6
	24000	4166	2040	23.4	2075	25.6	2110	28.0	2146	30.2	2184	32.5	2220	34.8	2295	39.6	2375	44.9		

SIZE 36 16-09 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP		4 1/2"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	15000	2064	907	3.21	1044	4.98	1185	7.18												
	22000	3028	1216	7.29	1310	9.60	1410	12.2	1505	14.9	1596	17.8	1691	21.0						
	24000	3303	1314	9.11	1396	11.5	1485	14.2	1574	17.1	1660	20.0	1748	23.3	1834	26.8				
	26000	3578	1405	11.0	1485	13.7	1565	16.5	1651	19.6	1732	22.7	1808	25.9	1888	29.4	1969	33.2	2050	37.2
	27000	3716	1456	12.2	1530	14.9	1611	17.9	1691	21.0	1766	24.1	1843	27.4	1920	31.0	1998	34.8	2075	38.7
	28000	3853	1505	13.4	1576	16.1	1651	19.1	1728	22.3	1803	25.6	1878	29.0	1949	32.4	2026	36.3	2100	40.3
	32000	4404	1697	19.0	1762	22.1	1823	25.2	1892	28.8	1960	32.5	2026	36.2	2095	40.2				
	36000	4954	1892	26.0	1954	29.7	2009	33.2	2064	36.8	2124	40.8								

SIZE 36 20-12 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		4"SP		5"SP		6"SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	20000	2752	1148	7.40	1210	9.37	1276	11.3	1336	13.4	1410	16.1	1485	18.7						
	24000	3303	1354	11.8	1405	14.0	1456	16.4	1514	18.8	1565	21.2	1616	23.9	1742	30.3				
	26000	3578	1456	14.4	1505	16.9	1554	19.6	1602	22.0	1656	24.7	1702	27.4	1803	33.5	1920	40.5		
	27000	3716	1510	16.1	1556	18.6	1602	21.3	1651	24.0	1702	26.7	1748	29.4	1838	35.3	1949	42.5		
	28000	3853	1565	17.9	1611	20.5	1651	23.1	1697	25.9	1746	28.7	1792	31.4	1878	37.4	1984	44.8	2090	52.2
	29000	3991	1616	19.5	1660	22.3	1702	25.1	1742	27.8	1788	30.6	1838	33.7	1920	39.7	2015	46.8	2120	54.6
	30000	4129	1666	21.3	1712	24.3	1752	27.1	1792	30.0	1834	32.9	1883	36.1	1964	42.1	2050	49.1		
	32000	4404	1772	25.5	1814	28.5	1852	31.5	1888	34.5	1929	37.8	1969	40.8	2055	47.5	2130	54.3		

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).

PERFORMANCE FOR VANEAXIAL FIXED PITCH FANS

SIZE 36 26-15 40° Angle	CFM	OV	1/2"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	RPM	BHP
			16000	2202	1008	5.97	1068	7.70	1185	11.3	1294	15.2	1410	19.5	1534	24.4	1691	32.9				
18000	2477	1119	8.00	1174	9.88	1276	13.8	1380	18.0	1476	22.6	1580	27.5	1737	36.7	1838	42.6	1934	48.8			
20000	2752	1230	10.4	1280	12.5	1374	16.9	1470	21.4	1560	26.2	1646	31.4	1737	36.7	1838	42.6	1934	48.8			
24000	3303	1460	17.0	1500	19.4	1580	24.4	1656	29.7	1737	35.1	1818	41.0	1888	46.7	1960	52.9	2035	59.3			
25000	3441	1520	19.2	1556	21.6	1636	26.9	1706	32.2	1782	37.6	1863	43.8	1934	49.8	2000	55.8	2070	62.4			
26000	3578	1576	21.2	1611	23.7	1686	29.0	1757	34.8	1832	40.7	1903	46.4	1978	52.9	2044	59.2	2110	65.9			
28000	3853	1691	26.0	1726	28.9	1797	34.7	1863	40.7	1929	46.9	1998	53.1	2066	59.5	2130	66.1					
30000	4129	1808	31.6	1838	34.5	1903	40.5	1969	47.1	2030	53.8	2090	60.0									

SIZE 38 16-09 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP		4 1/2"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			20000	2539	1084	5.41	1194	7.58	1294	9.95	1410	12.7	1525	15.8	1646	19.2						
21000	2666	1124	5.97	1234	8.29	1325	10.7	1436	13.5	1545	16.6	1656	19.9	1772	23.8							
23000	2920	1214	7.42	1314	9.89	1400	12.4	1494	15.3	1591	18.3	1691	21.7	1792	25.4	1898	29.5					
24000	3047	1256	8.15	1354	10.8	1440	13.3	1525	16.3	1620	19.4	1717	22.9	1808	26.4	1909	30.4	2009	34.7			
25000	3174	1305	9.11	1394	11.7	1480	14.4	1560	17.4	1646	20.5	1742	24.0	1832	27.6	1924	31.5	2020	35.8			
26000	3301	1345	9.86	1436	12.7	1520	15.5	1596	18.4	1676	21.6	1768	25.2	1854	28.8	1940	32.7					
28000	3555	1440	12.0	1520	14.9	1602	17.9	1676	21.0	1746	24.3	1823	27.8	1909	31.7	1989	35.6					
30000	3809	1530	14.2	1606	17.4	1682	20.6	1757	23.9	1823	27.3	1888	30.8	1960	34.6							

SIZE 38 20-12 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP		4 1/2"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			21000	2666	1094	7.44	1154	9.57	1216	11.8	1280	14.1	1340	16.5	1405	19.0						
22000	2793	1144	8.48	1196	10.5	1256	12.8	1316	15.2	1376	17.7	1436	20.3	1505	23.3							
23000	2920	1190	9.45	1245	11.8	1296	13.9	1354	16.4	1410	18.9	1470	21.7	1530	24.6							
24000	3047	1236	10.5	1285	12.7	1340	15.3	1394	17.8	1450	20.5	1505	23.2	1560	26.0	1616	28.9					
25000	3174	1285	11.7	1334	14.1	1380	16.5	1434	19.2	1485	21.8	1540	24.7	1591	27.6	1646	30.6	1706	33.9			
26000	3301	1330	12.9	1380	15.5	1425	18.0	1474	20.6	1525	23.4	1576	26.3	1626	29.3	1676	32.3	1732	35.6			
27000	3428	1380	14.4	1425	16.9	1470	19.5	1516	22.2	1565	25.1	1611	27.9	1662	31.1	1712	34.3					
28000	3555	1425	15.7	1470	18.3	1514	21.1	1556	23.8	1606	26.9	1651	29.8	1697	32.9							

SIZE 38 26-15 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			21000	2666	1234	9.62	1280	11.7	1320	13.6	1365	15.9	1454	20.6	1545	25.7	1640	31.1	1737	36.9		
22000	2793	1285	10.7	1330	12.9	1374	15.2	1414	17.4	1500	22.3	1585	27.5	1671	32.8	1766	38.8					
23000	2920	1340	12.1	1385	14.4	1425	16.7	1465	19.1	1545	24.0	1626	29.3	1706	34.7	1797	40.9	1888	47.4			
24000	3047	1396	13.6	1436	15.8	1476	18.3	1514	20.7	1591	25.8	1671	31.4	1746	36.9	1828	43.0	1914	49.4			
25000	3174	1450	15.1	1490	17.5	1525	19.8	1565	22.5	1640	27.9	1712	33.3	1786	39.1	1863	45.3	1944	51.8			
26000	3301	1505	16.8	1545	19.4	1580	21.8	1616	24.5	1686	29.8	1757	35.5	1828	41.5	1898	47.5	1974	54.1			
27000	3428	1560	18.7	1596	21.1	1631	23.7	1666	26.4	1737	32.3	1803	37.9	1874	44.2	1940	50.3	2009	56.7			
28000	3555	1616	20.7	1651	23.2	1686	26.0	1717	28.6	1786	34.6	1852	40.6	1918	46.8	1984	53.3					

SIZE 42 20-09 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP		4 1/2"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			15000	1505	644	2.47	801	4.54														
20000	2006	781	4.12	882	6.39	993	8.96	1134	12.5													
24000	2408	907	6.15	984	8.61	1068	11.4	1159	14.4	1270	18.2	1385	22.5									
28000	2809	1033	8.69	1099	11.6	1165	14.4	1240	17.8	1316	21.2	1405	25.3	1500	29.8	1602	35.0					
32000	3210	1159	11.9	1220	15.2	1280	18.6	1340	22.0	1405	25.8	1470	29.6	1540	33.8	1620	38.6	1702	43.7			
36000	3612	1290	16.0	1345	19.6	1396	23.3	1450	27.2	1505	31.2	1560	35.2	1616	39.4	1676	43.9	1742	48.8			
40000	4013	1420	21.1	1470	24.8	1520	29.2	1565	33.2	1611	37.3	1662	41.8	1712	46.3	1762	50.9					
44000	4414	1554	27.4	1600	31.4	1642	35.7	1686	40.4	1728	44.9											

SIZE 42 26-12 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		4"SP		5"SP		6"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			28000	2809	1004	12.2	1053	14.9	1094	17.5	1139	20.3	1185	23.3	1234	26.7						
32000	3210	1139	17.5	1176	20.3	1216	23.3	1256	26.5	1296	29.8	1336	33.2	1420	40.7	1510	48.6					
34000	3411	1205	20.6	1240	23.5	1280	26.8	1316	30.1	1354	33.6	1390	37.0	1465	44.4	1545	52.4					
36000	3612	1270	23.8	1305	27.2	1340	30.4	1376	34.0	1410	37.5	1445	41.1	1516	48.8	1591	57.2	1671	66.1			
38000	3812	1340	28.0	1370	31.2	1405	34.8	1436	38.1	1470	42.0	1505	46.0	1570	53.6	1640	62.3	1712	71.3			
40000	4013	1405	31.9	1436	35.7	1465	39.0	1500	43.0	1530	46.7	1560	50.6	1626	59.0	1691	67.8	1757	77.0			
42000	4214	1474	36.8	1500	40.3	1530	44.1	1565	48.5	1591	51.9	1622	56.3	1682	64.7	1742	73.4					
44000	4414	1540	41.7	1565	45.4	1596	49.8	1626	53.9	1656	58.1	1682	62.0	1737	70.5							

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 VANEAXIAL FIXED PITCH FANS

SIZE 48 20-09 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP		4 1/2"SP		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM
	26000	2006	761	5.36	858	8.29	968	11.8	1074	15.6	1185	20.3									
	28000	2160	801	6.09	896	9.37	993	12.8	1094	16.8	1194	21.2	1294	26.3							
	32000	2469	892	8.15	973	11.6	1053	15.3	1144	19.6	1230	23.9	1316	28.7	1405	34.2	1494	40.3			
	33000	2546	912	8.63	993	12.3	1074	16.2	1159	20.4	1245	24.9	1325	29.5	1410	34.9	1496	40.8	1580	47.2	
	34000	2623	936	9.28	1013	12.9	1090	16.9	1174	21.3	1256	25.8	1336	30.5	1416	35.6	1500	41.5	1585	48.1	
	35000	2700	958	9.89	1038	13.8	1108	17.6	1185	21.9	1270	26.7	1350	31.6	1425	36.6	1505	42.3	1585	48.6	
	36000	2777	982	10.6	1059	14.5	1128	18.5	1205	23.0	1285	27.8	1360	32.5	1436	37.7	1514	43.4	1591	49.5	
	38000	2932	1024	11.9	1099	15.9	1165	20.1	1236	24.7	1310	29.6	1385	34.6	1460	40.0	1530	45.4			

SIZE 48 26-12 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP		5"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	42000	3240	978	18.4	1022	22.6	1059	26.4	1108	31.1	1154	35.6	1205	40.6	1265	46.5						
	45000	3472	1042	22.1	1079	26.0	1119	30.6	1159	35.1	1205	40.2	1250	45.3	1300	51.0	1354	57.0				
	48000	3703	1108	26.5	1144	30.6	1180	35.4	1216	40.1	1256	45.1	1296	50.2	1340	55.8	1385	61.6	1490	75.1		
	50000	3857	1150	29.5	1185	33.7	1220	38.6	1254	43.5	1294	49.1	1330	54.0	1374	60.1	1414	65.7	1510	79.0		
	52000	4012	1194	32.9	1225	36.9	1260	42.1	1294	47.4	1330	52.8	1365	58.0	1405	64.0	1445	70.0	1530	82.8		
	54000	4166	1236	36.3	1270	41.0	1305	46.6	1334	51.4	1365	56.6	1400	62.2	1440	68.6	1476	74.4	1556	87.4		
	56000	4320	1280	40.3	1314	45.2	1345	50.4	1374	55.7	1405	61.2	1436	66.6	1474	73.2	1510	79.4	1585	92.5		
	58000	4475	1320	43.9	1354	49.1	1385	54.5	1414	60.1	1445	66.1	1476	71.9	1505	77.3	1540	83.7				

SIZE 54 26-09 40° Angle	CFM	OV	1/2"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		4"SP		4 1/4"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	52000	3152	841	17.6	898	22.7	947	28.4	1002	34.1	1059	40.3	1114	46.8	1185	54.8						
	56000	3394	896	21.1	953	26.6	998	32.5	1044	38.5	1099	45.0	1150	51.6	1205	59.1	1265	67.0	1305	72.3		
	60000	3637	953	25.3	1008	31.1	1053	37.4	1090	43.2	1139	50.1	1190	57.1	1236	64.1	1285	71.8	1314	76.2		
	61000	3697	968	26.5	1022	32.3	1064	38.3	1104	44.7	1148	51.2	1200	58.6	1245	65.5	1294	73.4	1320	77.6		
	62000	3758	982	27.6	1033	33.3	1079	39.8	1114	45.6	1159	52.7	1210	60.0	1256	67.2	1305	75.4				
	63000	3818	993	28.3	1048	34.7	1090	40.7	1128	47.2	1170	54.1	1220	61.6	1265	68.6	1314	77.0				
	64000	3879	1008	29.6	1059	35.7	1104	42.1	1144	49.1	1185	56.1	1230	63.1	1276	70.4	1320	78.1				
	68000	4122	1068	35.1	1114	41.3	1159	48.0	1196	55.0	1230	61.8	1270	69.3	1316	77.3						

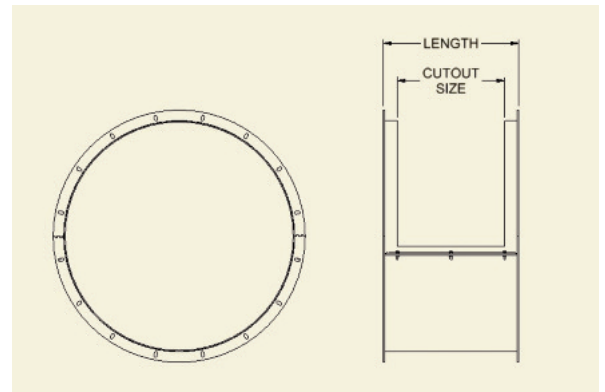
SIZE 60 26-09 40° Angle	CFM	OV	1/2"SP		3/4"SP		1"SP		1 1/2"SP		2"SP		2 1/2"SP		3"SP		3 1/2"SP		3 3/4"SP			
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	55000	2710	710	14.9	741	17.8	772	20.6	836	26.9	896	33.5	964	41.3	1044	50.4						
	59000	2907	752	17.4	781	20.5	810	23.5	867	29.6	927	36.9	984	44.4	1053	53.4	1128	63.2				
	61000	3006	772	18.6	801	21.9	830	25.2	887	31.6	942	38.6	998	46.3	1059	54.9	1128	64.5				
	64000	3154	806	21.0	832	24.2	858	27.5	916	34.6	968	41.6	1022	49.6	1074	57.7	1134	66.9	1166	72.0		
	66000	3252	830	22.9	852	25.8	878	29.2	932	36.3	984	43.5	1038	51.9	1088	60.0	1144	69.3	1173	74.0		
	68000	3351	852	24.6	876	28.0	898	31.1	953	38.7	1004	46.1	1053	53.9	1104	62.7	1154	71.4	1181	76.3		
	72000	3548	896	28.3	918	31.7	942	35.5	988	42.6	1038	50.5	1088	59.1	1134	67.6	1180	76.6				
	76000	3745	938	31.9	962	36.0	982	39.5	1028	47.6	1074	55.5	1119	63.7	1165	72.9						

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).

FAN ACCESS SECTION

Optional Fan Access Section can be mounted to the fan's inlet or outlet and allows access to the fan wheel, bearings, shaft and driven sheave. Panel behind removable door is partially cut and requires grinder to cut fixturing tabs before gaining access.

Size	Length	Cutout Size	Weight	Size	Length	Cutout Size	Weight
12-06-06	11 1/2	7 1/2	34	24-12-09	13	9	71
14-06-06	11 1/2	7 1/2	39	24-16-12	16	12	85
14-08-08	11 1/2	7 1/2	39	27-12-09	13	9	79
16-08-09	11 1/2	7 1/2	44	27-16-12	16	12	95
16-12-12	13	9	49	27-20-16	19 1/4	15 1/4	112
18-08-09	11 1/2	7 1/2	49	29-12-09	13	9	84
18-12-12	13	9	55	29-16-12	16	12	101
21-08-09	11 1/2	7 1/2	57	29-20-16	19 1/4	15 1/4	120
21-12-12	13	9	63	32-16-09	16	12	112
21-16-16	16	12	75	32-20-12	19 1/4	15 1/4	132



MATERIAL SPECIFICATIONS

Dimensions in inches. Weights in pounds. WR² in lb.-ft.². Tolerance: ±1/8"

Size	No. of blades	Wheel weight	Wheel WR ²	Bushing type	Shaft diameter	Bearings	Approximate bare fan weight				Housing gauge
							9-D & 9-V	9-M	9-S	9-R*	
12-06-06	6	9.8	0.8	P1	1 ³ / ₁₆	A	120	135	130	145	10
14-06-06	6	10.3	1.0	P1	1 ³ / ₁₆	B	135	155	145	165	10
14-08-08	8	12.5	1.5	P1	1 ⁷ / ₁₆	C	170	190	180	200	10
16-08-09	9	13.5	2.0	P1	1 ⁷ / ₁₆	C	185	210	200	220	10
16-12-12	12	22.8	4.8	P1	1 ⁷ / ₁₆	C	230	255	240	265	10
18-08-09	9	14.0	2.3	P1	1 ⁷ / ₁₆	C	225	255	240	265	10
18-12-12	12	25.5	6.8	P1	1 ¹¹ / ₁₆	C	265	295	280	305	10
21-08-09	9	15.0	3.0	P1	1 ¹¹ / ₁₆	C	260	295	275	305	10
21-12-12	12	27.8	8.8	P1	1 ¹¹ / ₁₆	C	300	340	320	345	10
21-16-16	16	57.0	24.5	Q1	1 ¹¹ / ₁₆	C	325	365	345	370	10
24-12-09	9	28.3	10.0	P1	1 ¹¹ / ₁₆	C	310	350	325	360	10
24-16-12	12	58.5	29.0	Q1	1 ¹¹ / ₁₆	C	365	410	385	415	10
27-12-09	9	30.0	12.3	P1	1 ¹¹ / ₁₆	C	330	380	345	390	10
27-16-12	12	65.0	37.8	Q1	1 ¹⁵ / ₁₆	C	410	460	425	465	10
27-20-16	16	91.0	68.0	Q1	1 ¹⁵ / ₁₆	C	435	490	455	495	10
29-12-09	9	31.3	13.5	P1	1 ¹⁵ / ₁₆	C	365	425	385	430	10
29-16-12	12	66.5	42.5	Q1	2 ³ / ₁₆	C	465	525	485	525	10
29-20-16	16	94.5	75.0	Q1	2 ³ / ₁₆	C	495	555	510	555	10
32-16-09	9	68.5	47.5	Q1	2 ³ / ₁₆	C	485	550	500	570	10
32-20-12	12	106.5	90.0	Q1	2 ³ / ₁₆	C	575	640	590	660	10
36-16-09	9	74.5	61.0	Q1	2 ³ / ₁₆	C	530	600	545	630	10
36-20-12	12	116.0	115	Q1	2 ³ / ₁₆	C	655	735	680	760	10
36-26-15	15	232.5	268	R1	2 ³ / ₁₆	C	780	860	800	880	10
38-16-09	9	70.0	62.0	Q1	2 ³ / ₁₆	C	630	740	650	745	7
38-20-12	12	120.0	123	Q1	2 ⁷ / ₁₆	C	810	935	835	930	7
38-26-15	15	205.5	250	R1	2 ⁷ / ₁₆	C	900	1025	920	1015	7
42-20-09	9	131.0	141	Q1	2 ¹¹ / ₁₆	C	900	1035	920	1025	7
42-26-12	12	245.5	324	R1	2 ¹¹ / ₁₆	C	1125	1270	1150	1250	7
48-20-09	9	122.0	147	Q1	2 ¹¹ / ₁₆	C	965	1135	990	1110	7
48-26-12	12	258.5	394	R1	2 ¹¹ / ₁₆	C	1220	1395	1245	1365	7
54-26-09	9	245.5	399	R1	2 ¹¹ / ₁₆	C	1310	1520	1360	1510	7
60-26-09	9	260.0	460	R1	2 ¹¹ / ₁₆	C	1455	1715	1505	1680	7

Bearing types: A-Standard D-Lok B-Medium D-LOK C-Link-Belt 22400 Series. All Sizes: Flange bearings

nyb reserves the right to substitute bearings of equal quality. Wheel weight includes bushing.

*9R weights are for fan and curb cap. Does not include weights for stack hood and weather cover.

MATERIAL SPECIFICATIONS

Dimensions in inches. Weights in pounds. WR² in lb.-ft.². Tolerance: ±1/8"

MOTOR SIZE CAPABILITY

FAN FLANGE DIMENSIONS

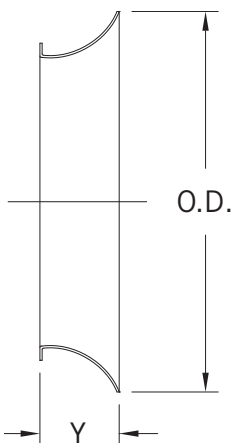
Size	Maximum C-[N-W]	Maximum frame size
12-06-06	16 ³ / ₈	213T
14-06-06	16 ³ / ₄	215T
14-08-08	19	256T
16-08-09	18 ³ / ₈	256T
16-12-12	22 ¹ / ₈	324T
18-08-09	22 ⁵ / ₈	324T
18-12-12	24 ¹ / ₈	364T
21-08-09	22 ⁵ / ₈	326T
21-12-12	24 ¹ / ₈	364T
21-16-16	24 ¹ / ₈	364T
24-12-09	22 ⁵ / ₈	324T
24-16-12	24 ¹ / ₈	364T
27-12-09	22 ⁵ / ₈	326T
27-16-12	24 ¹ / ₈	365T
27-20-16	25	365T
29-12-09	24 ⁵ / ₈	364T
29-16-12	27 ⁵ / ₈	405T
29-20-16	27 ⁵ / ₈	405T
32-16-09	25 ¹ / ₄	364T
32-20-12	27 ⁵ / ₈	405T
36-16-09	25 ¹ / ₄	365T
36-20-12	31 ⁵ / ₈	405T
36-26-15	32 ⁷ / ₈	405T
38-16-09	27 ⁵ / ₈	405T
38-20-12	36 ¹ / ₈	445T
38-26-15	36 ¹ / ₈	445T
42-20-09	34 ⁷ / ₈	405T
42-26-12	38 ⁷ / ₈	445T
48-20-09	34 ³ / ₈	445T
48-26-12	38 ³ / ₈	445T
54-26-09	41 ⁷ / ₈	445T
60-26-09	44 ¹ / ₂	445T

Size	Flange gauge	Fan ID	Bolting circle	Flange OD	Flange Slots*	
					No.	Size
12-06-06	7	12 ³ / ₁₆	13 ¹⁵ / ₁₆	15 ¹ / ₂	8	7/16 x 13/16
14-06-06	7	14 ³ / ₁₆	15 ¹⁵ / ₁₆	17 ¹ / ₂	8	7/16 x 13/16
14-08-08	7	14 ³ / ₁₆	15 ¹⁵ / ₁₆	17 ¹ / ₂	8	7/16 x 13/16
16-08-09	7	16 ¹ / ₄	18	19 ⁵ / ₈	8	7/16 x 13/16
16-12-12	7	16 ¹ / ₄	18	19 ⁵ / ₈	8	7/16 x 13/16
18-08-09	7	18 ¹ / ₄	20	21 ⁵ / ₈	8	7/16 x 13/16
18-12-12	7	18 ¹ / ₄	20	21 ⁵ / ₈	8	7/16 x 13/16
21-08-09	7	21 ³ / ₁₆	23	24 ⁵ / ₈	8	7/16 x 13/16
21-12-12	7	21 ³ / ₁₆	23	24 ⁵ / ₈	8	7/16 x 13/16
21-16-16	7	21 ³ / ₁₆	23	24 ⁵ / ₈	8	7/16 x 13/16
24-12-09	7	24 ³ / ₈	26 ¹ / ₈	27 ³ / ₄	8	7/16 x 13/16
24-16-12	7	24 ³ / ₈	26 ¹ / ₈	27 ³ / ₄	8	7/16 x 13/16
27-12-09	7	27 ³ / ₈	29 ¹ / ₈	30 ³ / ₄	8	7/16 x 13/16
27-16-12	7	27 ³ / ₈	29 ¹ / ₈	30 ³ / ₄	8	7/16 x 13/16
27-20-16	7	27 ³ / ₈	29 ¹ / ₈	30 ³ / ₄	8	7/16 x 13/16
29-12-09	7	29 ³ / ₁₆	31	32 ⁵ / ₈	16	7/16 x 13/16
29-16-12	7	29 ³ / ₁₆	31	32 ⁵ / ₈	16	7/16 x 13/16
29-20-16	7	29 ³ / ₁₆	31	32 ⁵ / ₈	16	7/16 x 13/16
32-16-09	7	32 ¹ / ₂	34 ¹ / ₄	35 ⁷ / ₈	16	7/16 x 13/16
32-20-12	7	32 ¹ / ₂	34 ¹ / ₄	35 ⁷ / ₈	16	7/16 x 13/16
36-16-09	7	36 ¹ / ₂	38 ⁵ / ₁₆	41	16	7/16 x 13/16
36-20-12	7	36 ¹ / ₂	38 ⁵ / ₁₆	41	16	7/16 x 13/16
36-26-15	7	36 ¹ / ₂	38 ⁵ / ₁₆	41	16	7/16 x 13/16
38-16-09	1/4"	38	40 ¹ / ₄	42 ¹ / ₂	16	9/16 x 1
38-20-12	1/4"	38	40 ¹ / ₄	42 ¹ / ₂	16	9/16 x 1
38-26-15	1/4"	38	40 ¹ / ₄	42 ¹ / ₂	16	9/16 x 1
42-20-09	1/4"	42 ³ / ₄	45	47 ¹ / ₄	16	9/16 x 1
42-26-12	1/4"	42 ³ / ₄	45	47 ¹ / ₄	16	9/16 x 1
48-20-09	1/4"	48 ³ / ₄	51	53 ³ / ₈	16	9/16 x 1
48-26-12	1/4"	48 ³ / ₄	51	53 ³ / ₈	16	9/16 x 1
54-26-09	1/4"	55	57 ⁷ / ₁₆	59 ⁵ / ₈	16	9/16 x 1
60-26-09	1/4"	61	63 ⁷ / ₁₆	65 ⁵ / ₈	16	9/16 x 1

Maximum frame sizes are listed per size.

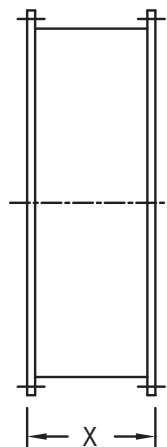
*Slots spaced equally, straddling centerline.

INLET BELL DIMENSIONS



Size	Y	O.D.
12	2 ¹ / ₈	16 ³ / ₁₆
14	2 ¹ / ₂	18 ¹⁵ / ₁₆
16	2 ¹⁵ / ₁₆	21 ³ / ₄
18	3 ³ / ₁₆	24 ¹ / ₄
21	3 ¹¹ / ₁₆	28 ¹ / ₄
24	4 ¹ / ₁₆	32 ¹ / ₈
27	4 ¹¹ / ₁₆	36 ³ / ₈
29	5	38 ⁷ / ₈
32	5 ³ / ₄	43 ¹ / ₂
36	6 ¹ / ₄	48 ¹ / ₂
38	6 ⁵ / ₈	50 ⁷ / ₈
42	7 ¹ / ₄	56 ³ / ₄
48	8 ¹ / ₄	64 ³ / ₄
54	9 ¹ / ₈	73
60	10 ¹ / ₈	81

INLET VANE DAMPER DIMENSIONS



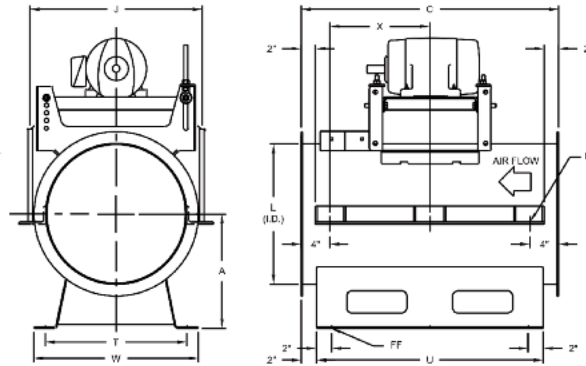
Size	X	
	Type A	Type B
12	9	9
14	9	9
16	9	9
18	10	9
21	10	9
24	10	9
27	10	9
29	10	9
32	10	9
36	10	10
38	10	10
42	11	10
48	11	10
54	11	10
60	11	10

DIMENSIONS

Dimensions should not be used for construction unless certified. See page 3 for available mounting positions. Note motor size capability on page 14. Tolerance: $\pm 1/8''$.

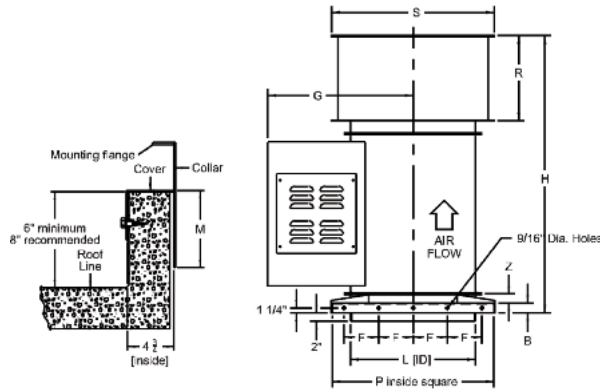
Size	C	G max	H	U
12-06-06	26 $\frac{5}{8}$	27 $\frac{1}{4}$	48 $\frac{3}{8}$	22 $\frac{5}{8}$
14-06-06	27	28 $\frac{1}{4}$	49 $\frac{3}{4}$	23
14-08-08	29 $\frac{1}{4}$	28 $\frac{1}{4}$	52	25 $\frac{1}{4}$
16-08-09	29 $\frac{5}{8}$	29 $\frac{1}{4}$	53 $\frac{3}{8}$	25 $\frac{5}{8}$
16-12-12	33 $\frac{3}{8}$	33 $\frac{1}{4}$	57 $\frac{1}{8}$	29 $\frac{3}{8}$
18-08-09	33 $\frac{7}{8}$	34 $\frac{1}{4}$	59 $\frac{5}{8}$	29 $\frac{7}{8}$
18-12-12	35 $\frac{3}{8}$	38 $\frac{1}{4}$	61 $\frac{1}{8}$	31 $\frac{3}{8}$
21-08-09	33 $\frac{7}{8}$	35 $\frac{3}{4}$	62 $\frac{5}{8}$	29 $\frac{7}{8}$
21-12-12	36 $\frac{3}{8}$	39 $\frac{3}{4}$	65 $\frac{1}{8}$	32 $\frac{3}{8}$
21-16-16	36 $\frac{3}{8}$	39 $\frac{3}{4}$	65 $\frac{1}{8}$	32 $\frac{3}{8}$
24-12-09	34 $\frac{7}{8}$	37 $\frac{1}{2}$	70 $\frac{5}{8}$	30 $\frac{7}{8}$
24-16-12	36 $\frac{3}{8}$	41 $\frac{1}{2}$	72 $\frac{1}{8}$	32 $\frac{3}{8}$
27-12-09	34 $\frac{7}{8}$	39	72 $\frac{5}{8}$	30 $\frac{7}{8}$
27-16-12	37 $\frac{3}{8}$	43	75 $\frac{1}{8}$	33 $\frac{3}{8}$
27-20-16	38 $\frac{1}{4}$	43	76	34 $\frac{1}{4}$
29-12-09	36 $\frac{7}{8}$	43	75 $\frac{5}{8}$	32 $\frac{7}{8}$
29-16-12	40 $\frac{7}{8}$	43 $\frac{3}{4}$	79 $\frac{5}{8}$	36 $\frac{7}{8}$
29-20-16	40 $\frac{7}{8}$	46 $\frac{1}{2}$	79 $\frac{5}{8}$	36 $\frac{7}{8}$
32-16-09	38 $\frac{1}{2}$	45 $\frac{1}{2}$	78 $\frac{3}{4}$	34 $\frac{1}{2}$
32-20-12	40 $\frac{7}{8}$	48 $\frac{1}{4}$	81 $\frac{1}{8}$	36 $\frac{7}{8}$
36-16-09	38 $\frac{1}{2}$	47 $\frac{1}{2}$	83 $\frac{3}{4}$	34 $\frac{1}{2}$
36-20-12	44 $\frac{7}{8}$	50 $\frac{1}{4}$	90 $\frac{1}{8}$	40 $\frac{7}{8}$
36-26-15	46 $\frac{1}{8}$	50 $\frac{1}{4}$	91 $\frac{3}{8}$	42 $\frac{1}{8}$
38-16-09	40 $\frac{7}{8}$	51	87 $\frac{1}{8}$	36 $\frac{7}{8}$
38-20-12	49 $\frac{3}{8}$	54	95 $\frac{5}{8}$	45 $\frac{3}{8}$
38-26-15	49 $\frac{3}{8}$	54	95 $\frac{5}{8}$	45 $\frac{3}{8}$
42-20-09	49 $\frac{1}{8}$	53 $\frac{1}{2}$	97 $\frac{3}{8}$	45 $\frac{1}{8}$
42-26-12	54 $\frac{1}{8}$	56 $\frac{1}{2}$	102 $\frac{3}{8}$	50 $\frac{1}{8}$
48-20-09	48 $\frac{5}{8}$	59 $\frac{1}{2}$	102 $\frac{7}{8}$	44 $\frac{5}{8}$
48-26-12	53 $\frac{5}{8}$	59 $\frac{1}{2}$	107 $\frac{7}{8}$	49 $\frac{5}{8}$
54-26-09	57 $\frac{1}{8}$	62 $\frac{1}{2}$	114 $\frac{3}{8}$	53 $\frac{1}{8}$
60-26-09	59 $\frac{3}{4}$	65 $\frac{1}{2}$	121	56 $\frac{3}{4}$

ARRANGEMENTS 9-M, 9-S, AND 9-D

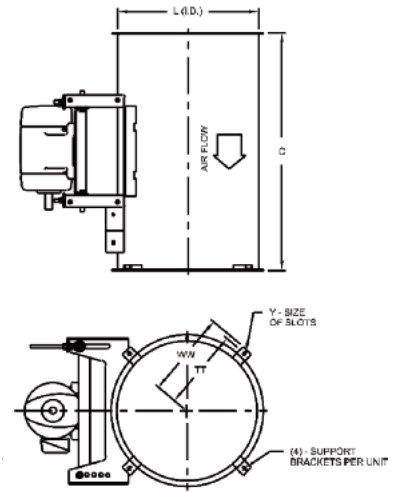


ARRANGEMENT 9-R

[roof-mounted]
with optional exhaust-type
stack hood.



ARRANGEMENT 9-V



DIMENSIONS [INCHES]

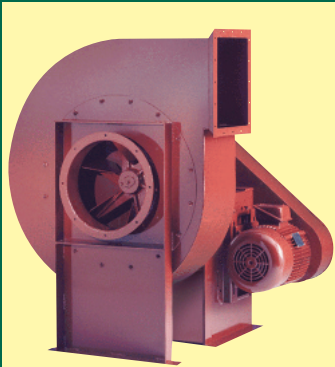
Size	A	B	E	F	FF*	J	L	M	P	R	S	T	TT	W	WW	X	Y	Z
12	11	2 $\frac{1}{2}$	2	4 $\frac{1}{2}$	9/16	16 $\frac{3}{16}$	12 $\frac{3}{16}$	4 $\frac{1}{2}$	22	14	19 $\frac{1}{8}$	12 $\frac{1}{2}$	9 $\frac{3}{8}$	15 $\frac{1}{2}$	10 $\frac{5}{8}$	—	9/16x1	2
14	12 $\frac{1}{2}$	2 $\frac{1}{2}$	2	4 $\frac{1}{2}$	9/16	18 $\frac{3}{16}$	14 $\frac{3}{16}$	4 $\frac{1}{2}$	24	15	21 $\frac{1}{8}$	14 $\frac{1}{2}$	10 $\frac{3}{8}$	17 $\frac{1}{2}$	11 $\frac{5}{8}$	—	9/16x1	2
16	13 $\frac{1}{2}$	2 $\frac{1}{2}$	2	5	9/16	20 $\frac{1}{4}$	16 $\frac{1}{4}$	4 $\frac{1}{2}$	26 $\frac{1}{8}$	16	23 $\frac{1}{8}$	16 $\frac{5}{8}$	11 $\frac{1}{2}$	19 $\frac{5}{8}$	12 $\frac{3}{4}$	—	9/16x1	2
18	15	2 $\frac{1}{2}$	2	5 $\frac{1}{2}$	9/16	22	18 $\frac{1}{4}$	4 $\frac{1}{2}$	28	18	25 $\frac{1}{8}$	18 $\frac{5}{8}$	12 $\frac{1}{2}$	21 $\frac{5}{8}$	13 $\frac{3}{4}$	—	9/16x1	2
21	16 $\frac{1}{2}$	2 $\frac{1}{2}$	2	6	9/16	24 $\frac{15}{16}$	21 $\frac{3}{16}$	4 $\frac{1}{2}$	31	21	28 $\frac{1}{8}$	21 $\frac{5}{8}$	13 $\frac{7}{8}$	24 $\frac{5}{8}$	15 $\frac{1}{8}$	—	9/16x1	2
24	18 $\frac{1}{2}$	2 $\frac{1}{2}$	2	7	9/16	28 $\frac{1}{8}$	24 $\frac{3}{8}$	4 $\frac{1}{2}$	34 $\frac{1}{8}$	23	31 $\frac{1}{8}$	24 $\frac{3}{4}$	15 $\frac{1}{2}$	27 $\frac{3}{4}$	16 $\frac{3}{4}$	—	9/16x1	2
27	20 $\frac{1}{2}$	2 $\frac{1}{2}$	2	8	9/16	31 $\frac{1}{8}$	27 $\frac{3}{8}$	4 $\frac{1}{2}$	37 $\frac{1}{8}$	25	34 $\frac{1}{8}$	27 $\frac{3}{4}$	17	30 $\frac{3}{4}$	18 $\frac{1}{4}$	—	9/16x1	2
29	22	2 $\frac{1}{2}$	2	8 $\frac{1}{2}$	9/16	32 $\frac{15}{16}$	29 $\frac{3}{16}$	4 $\frac{1}{2}$	39 $\frac{1}{2}$	26	36 $\frac{1}{8}$	30 $\frac{3}{4}$	18 $\frac{3}{4}$	32 $\frac{5}{8}$	20 $\frac{1}{4}$	—	3/4x1 $\frac{1}{2}$	2
32	23 $\frac{1}{2}$	3	2	9	9/16	36 $\frac{1}{4}$	32 $\frac{1}{2}$	5	41 $\frac{5}{8}$	26	39 $\frac{1}{8}$	32 $\frac{5}{8}$	20 $\frac{3}{8}$	35 $\frac{7}{8}$	21 $\frac{7}{8}$	—	3/4x1 $\frac{1}{2}$	3
36	26	3	2	10 $\frac{1}{2}$	9/16	40 $\frac{1}{4}$	36 $\frac{1}{2}$	5	46 $\frac{1}{4}$	31	43 $\frac{1}{8}$	38	22 $\frac{3}{8}$	41	23 $\frac{7}{8}$	—	3/4x1 $\frac{1}{2}$	3
38	27 $\frac{1}{2}$	3	2	11 $\frac{1}{4}$	9/16	41 $\frac{7}{8}$	38	5	49 $\frac{1}{2}$	32	45 $\frac{1}{8}$	39 $\frac{1}{2}$	23 $\frac{1}{8}$	42 $\frac{1}{2}$	24 $\frac{5}{8}$	—	3/4x1 $\frac{1}{2}$	3
42	30	3	2	12	3/4	46 $\frac{5}{8}$	42 $\frac{3}{4}$	5	52 $\frac{5}{8}$	34	47 $\frac{1}{8}$	44 $\frac{1}{4}$	25 $\frac{1}{2}$	47 $\frac{1}{4}$	27	—	3/4x1 $\frac{1}{2}$	3
48	33 $\frac{1}{2}$	3	2	13	3/4	52 $\frac{5}{8}$	48 $\frac{3}{4}$	5	58 $\frac{5}{8}$	40	56 $\frac{1}{8}$	50 $\frac{3}{8}$	28 $\frac{1}{2}$	53 $\frac{3}{8}$	30	—	3/4x1 $\frac{1}{2}$	3
54	37 $\frac{1}{2}$	3	2	14	3/4	59 $\frac{7}{8}$	55	5	64 $\frac{7}{8}$	43	62 $\frac{1}{8}$	56 $\frac{5}{8}$	32 $\frac{1}{4}$	59 $\frac{5}{8}$	33 $\frac{3}{4}$	24 $\frac{9}{16}$	1x2	3
60	41 $\frac{1}{2}$	3	2	14 $\frac{1}{2}$	3/4	65 $\frac{7}{8}$	61	5	70 $\frac{7}{8}$	47	68 $\frac{1}{8}$	62 $\frac{5}{8}$	35 $\frac{1}{4}$	65 $\frac{5}{8}$	36 $\frac{3}{4}$	25 $\frac{7}{8}$	1x2	3

*FF: Mounting hole size; Sizes 12-48 use two holes per side; Sizes 54 and 60 use three holes per side.

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

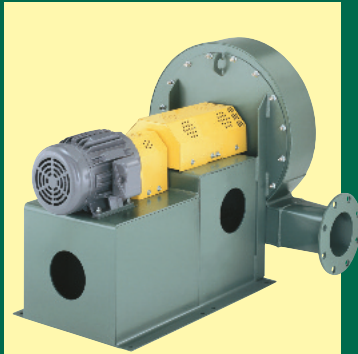
COMPLETE SELECTION OF AIR-MOVING EQUIPMENT

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.



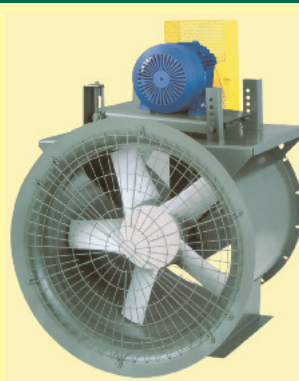
DUST/MATERIAL HANDLING

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.

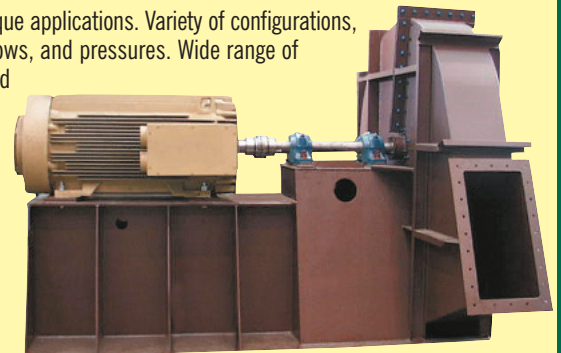


FIBERGLASS REINFORCED PLASTIC [FRP]

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.