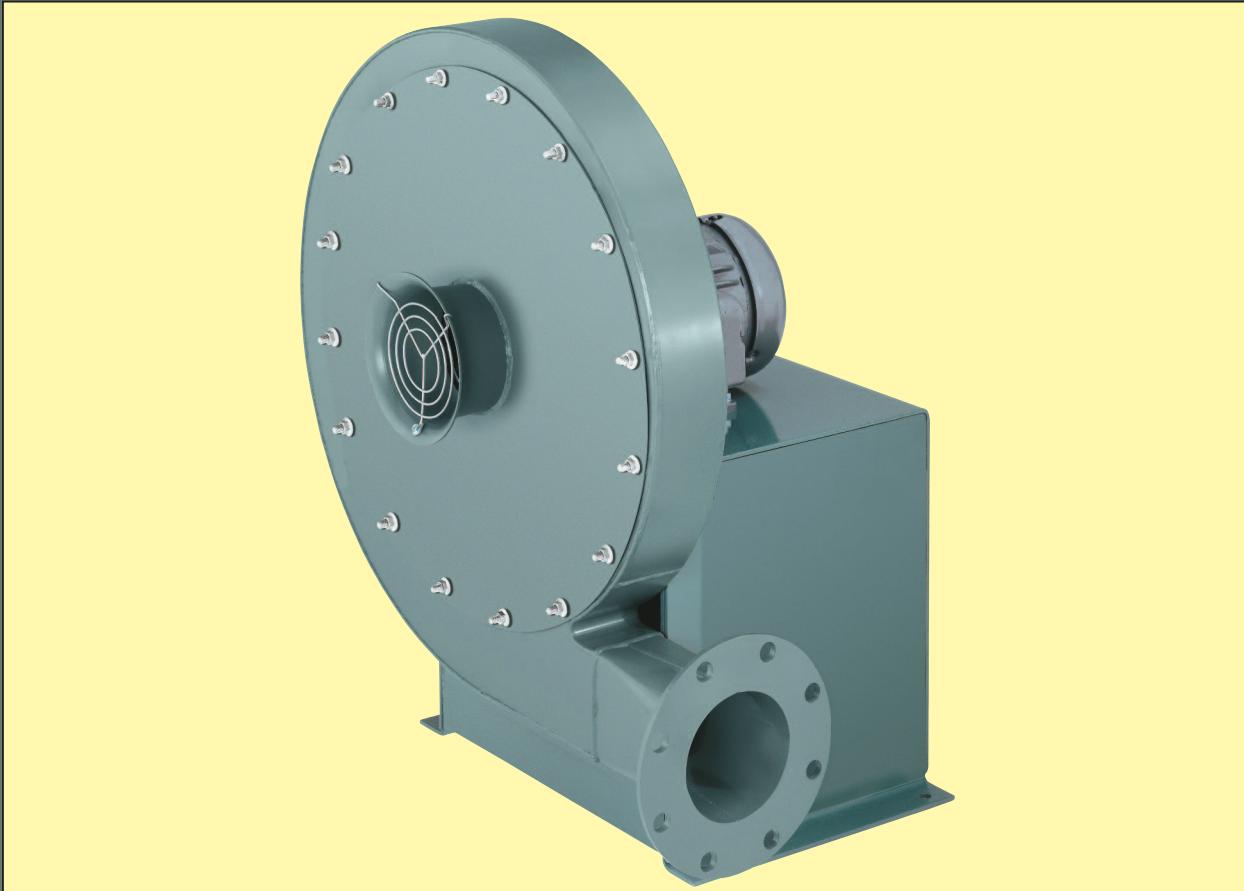


PRESSURE BLOWERS

- Capacities to 5,200 CFM
- Two wheel choices
- Static pressures to 58"WG
- Temperatures to 600°F.



PRESSURE BLOWERS

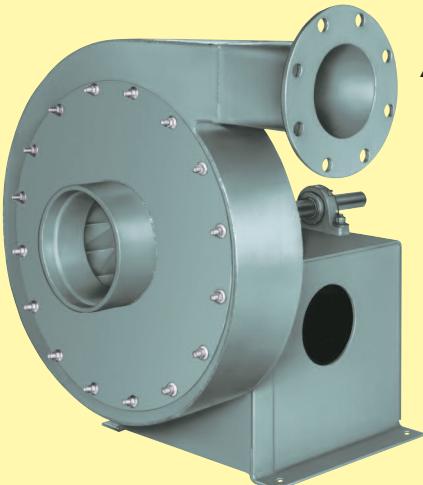
...for process systems

DESIGN FEATURES

- Pressures to 58" WG.
- Capacities to 5,200 CFM.
- Stable performance . . . the pressure curve remains stable from wide-open to closed-off . . . fan instability, or pulsation, is eliminated even when "turn-down" approaches zero flow.
- Choice of wheel designs . . . standard aluminum wheel for optimum efficiency or optional steel wheel for more rugged applications.
- Efficiency . . . advanced wheel and aerodynamic housing design combine for air-handling efficiency superior to conventional radial-wheel designs.
- Variable wheel diameters and a choice of six outlet sizes enable efficient fan selection across a wide range of volumes and pressures.
- Choice of arrangements . . . direct-drive and belt-drive.
- Wide application range . . . designed for continuous operation in combustion, cooling, conveying, drying, and various process systems.

CONSTRUCTION FEATURES

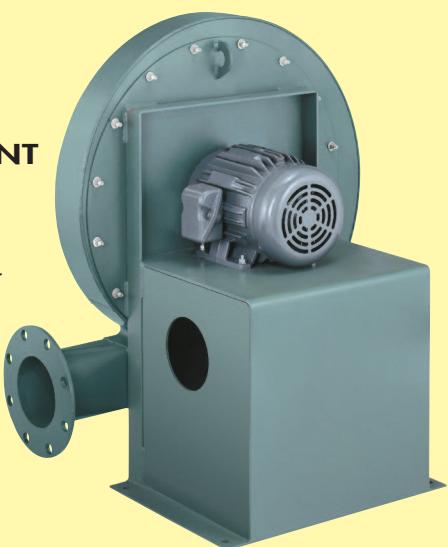
- All-welded steel housings . . . heavy-gauge housings are designed specifically to prevent "flexing" at high pressures.
- Flanges . . . continuously welded flanges match ANSI Class 125/150 hole pattern.
- Balance . . . all wheels are precision-balanced prior to assembly . . . fans with motors and drives mounted are given a final trim balance check at the specified running speed.
- Shafting . . . straightened to close tolerance to minimize "run-out" and ensure smooth operation.
- Inlet configuration . . . a choice of three inlet types allows units to be tailored to specific application requirements.
- Lifting eyes . . . standard on all units for ease of handling and installation.
- Finish . . . medium-green industrial coating.



ARRANGEMENT

1

Pressure Blower with plain pipe inlet.



ARRANGEMENT

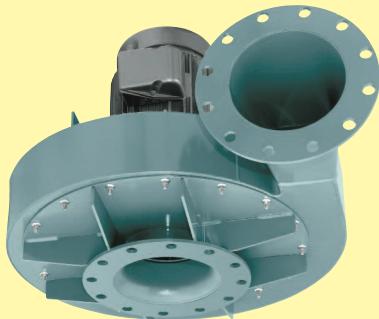
4

Pressure Blower with motor.

ARRANGEMENT

4-V

Pressure Blower with motor.



ACCESSORIES/MODIFICATIONS

• COMPANION FLANGES

Designed to fit flush with fan inlet and outlet flanges, provided with a matching hole pattern.

• DRAINS

Tank flange is welded to the lowest point of the housing scroll . . . female pipe thread.

• INLET FILTER

Filters are available with a choice of three element types: wire mesh, hi-flow polyester, and ultra-synthetic. High-efficiency filter is flange-mounted. Furnished standard with outboard support bracket and available with or without protective hood.

• SILENCERS

Available to match standard inlet or outlet flange sizes. Heavy-welded construction filled with high-density, acoustical absorption material.

• OUTLET DAMPERS

Available as either an integral outlet design for fixed damper control or as a separate wafer design for variable-flow applications [shown]. Wafer damper is available with an optional actuator and positioner.



• SHAFT SEALS

Ceramic-felt shaft seals consist of compressed ceramic felt elements. Lubricated lip seals [Buna, Teflon®, and Viton®] and gas-purgeable, segmental bushing seals are also available. See your representative for availability. [Teflon and Viton are registered trademarks of DuPont and DuPont Dow Elastomers, respectively.]

• ACCESS DOOR

Gasketed, flush-bolted door opens to provide access to the wheel.

• HEAT-FAN CONSTRUCTION

Available on Arrangements 1, 8, 9, and 10 steel wheel Pressure Blowers up to 600°F. Modifications include shaft cooler and shaft-cooler guard.

• LL-1 LOW LEAKAGE CONSTRUCTION

Special construction to minimize leakage includes lip-type shaft seal, non-rotatable housing with solid drive side, double studs, and neoprene gasketing. Maximum temperature 200°F. due to gasketing limitations. Not available with heat-fan construction. Contact your representative for other options.

• SPECIAL ALLOY CONSTRUCTION

Airstream components can be constructed of a wide range of alternate alloys for corrosive applications.

• UNITARY BASE

Fan, motor, and guards can be mounted and shipped on a rugged, structural-steel base. Factory-assembled and run-tested prior to shipment.

ARRANGEMENT

8

Pressure Blower with Venturi inlet, shaft and bearing guard, coupling guard, and motor.



ARRANGEMENT

9

Pressure Blower with flanged inlet, flush-bolted cleanout door, motor, belt guard, and shaft and bearing guard.



ARRANGEMENT

10

Pressure Blower with flanged inlet and optional weather cover/belt guard.

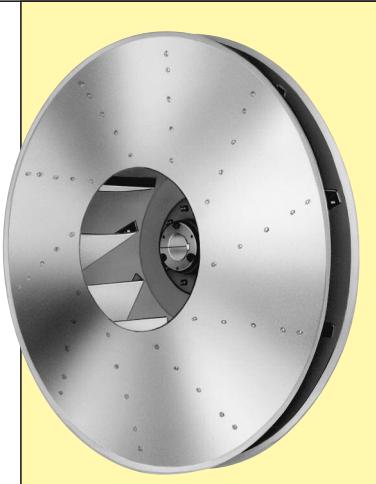


WHEELS

STANDARD ALUMINUM

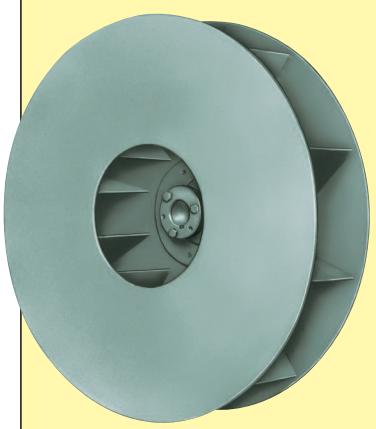
The unique Aluminum Pressure Blower wheel is designed to provide efficient performance and reduced sound levels . . . the dual-taper design concept on all but the narrowest wheel sizes yields typical efficiencies up to 10 percentage points greater than conventional straight radial wheels. Riveted high-strength aluminum alloy blades and side plates minimize overhung wheel weight and starting inertia. Ductile-iron, taper-lock hubs make wheels easily removable.

Note: Maximum operating temperature of aluminum wheel is 200°F.



OPTIONAL STEEL

Either welded steel or stainless-steel wheel construction is available in straight radial design. AMCA Certified Ratings Seal applies to Pressure Blowers with aluminum-wheel design only. Air volume and pressure capabilities are the same as the dual-taper aluminum wheel, but brake horsepower requirements are typically higher.



Note: Maximum operating temperature of steel wheel with heat fan construction is 600°F. Some fan-and-motor combinations with steel wheels may be restricted due to starting torque requirements.

CHART II

STEEL WHEEL HORSEPOWER CORRECTIONS

18" Pressure Blower with 04 outlet to handle 400 CFM at 23 $\frac{1}{2}$ "SP at .075 lbs./ft.³ density. Aluminum wheels require 2.6 BHP as shown on page 7. Steel or stainless-steel wheels require [1.15 x 2.6] 3.0 BHP.

Outlet size	Wheel size	BHP correction factors
03	14 to 22 23 to 26	0.96 1.02
04	14 to 26	1.15
06	14 to 18 19 to 26	1.06 1.15
08	15 to 22 23 to 26	1.06 1.15
10	19 to 26	1.06
12	19 to 26	1.06

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.

CHART I MAXIMUM SAFE SPEEDS [RPM] †

Wheel diameter	Aluminum wheel	Steel wheel	
	All Arr.	Arr. 1, 4, 4-V, 8, 9	Arr. 10
14	4000	4000	4000
15	4000	4000	4000
16	4000	4000	4000
17	4000	4000	4000
18	4000	4000	4000
19	3900	3900	2992
20	3900	3900	2918
21	3900	3900	2851
22	3900	3900	2787
23	3800	3800	3178
24	3800	3800	3121
25	3800	3800	3068
26	3800	3800	3017

† derate for temperature not required.

* Arr. 9 fans may have additional speed limits based on pedestal length.

SAFETY EQUIPMENT

Safety accessories are available, 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. 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.

PERFORMANCE

USING PERFORMANCE CURVES

Performance is shown according to outlet sizes for quick reference to duct diameter. Brake horsepower increments are identified on each curve. Recommended standard blower size and motor combinations, which are based on the most efficient area of operation, are listed on page 14 for Arrangements 4, 4-V, and 8. Nonstandard combinations are generally available, but are usually less efficient than the standard combinations.

SIZING NOMENCLATURE			
7-digit model number designates the wheel diameter, outlet size, wheel type, and nominal motor horsepower.			EXAMPLE
21	06	A	7½
Wheel diameter	Outlet size [inches]	Wheel type A = aluminum S = steel/stainless steel	Nominal horsepower

PROCEDURE	STEPS	EXAMPLE
Determine the appropriate outlet size.	1	The 06 outlet is selected for 800 CFM at 32"SP.
Plot the CFM and SP [standard] and select a performance curve for the fan size that meets or slightly exceeds the required performance.	2	A Size 2106A will provide 800 CFM at 33.6"SP.
Determine the BHP required for the point of operation . . . see page 4 for steel or stainless-steel wheel factors.	3	2106A requires 6.3 BHP. 2106S requires 7.2 BHP [6.3 x 1.15].
Read to the right to select motor horsepower.	4	A 7½ HP motor will cover both wheel types.

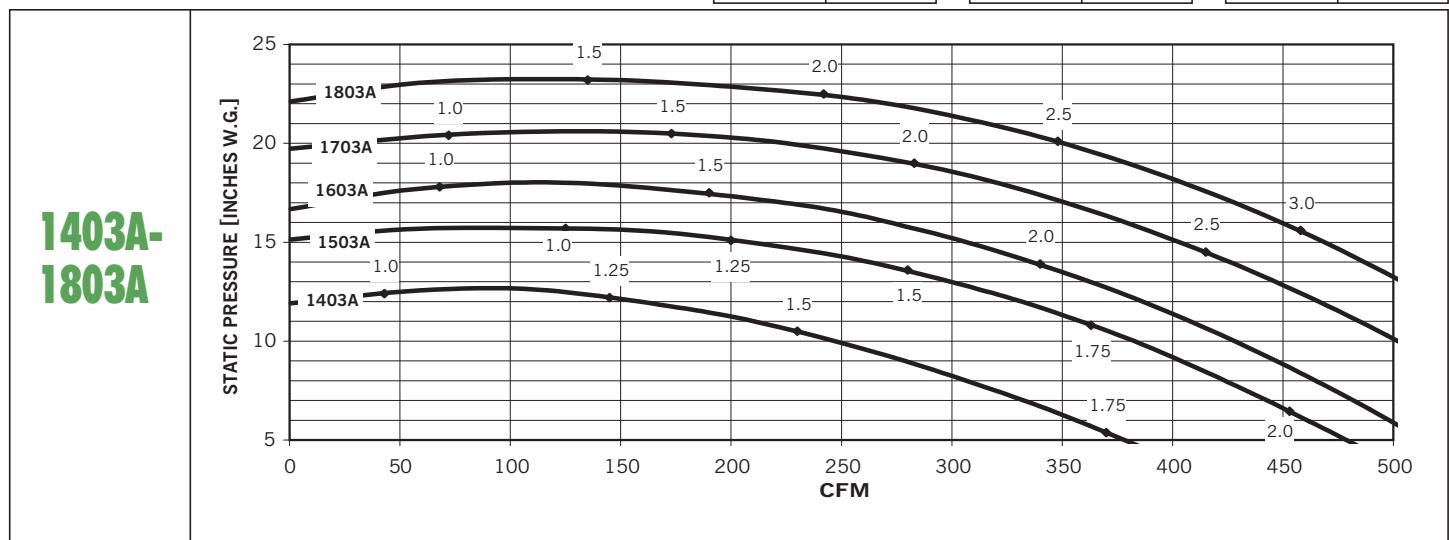
Note: The horsepower coverage of a given motor will increase 15% when a 1.15 service factor motor is utilized.

CORRECTION FACTORS

Performance is based on actual cubic feet per minute [ACFM] at the blower inlet at standard density [.075 lbs./ft.³] and static pressure at the blower 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.³ at 70°F. at sea level. This also occurs when negative static pressure exists [rarefaction] on the inlet side of the fan. Multiply the required static pressure at conditions by the appropriate factors in Charts III, IV, and V to obtain corrected pressure for blower selection. Pressure and BHP will be reduced at conditions by the inverse of these factors. Multiply one factor by the other if temperature, altitude, and rarefaction are non-standard. For example: If the installation is located at an altitude of 4000 feet, the gas temperature is 300°F., and the inlet pressure is -40"WG, the correction factor is 1.84 [1.16 x 1.43 x 1.11].

CHART III ALTITUDE [ft.] CORRECTIONS		CHART IV TEMPERATURE CORRECTIONS		CHART V RAREFICATION CORRECTIONS	
Alt.	Factor	Temp. °F.	Factor	Neg. inlet pressure "WG	Factor
0	1.00	0	.87	15	1.04
500	1.02	20	.91	20	1.05
1000	1.04	40	.94	25	1.07
1500	1.06	60	.98	30	1.08
2000	1.08	70	1.00	35	1.09
2500	1.10	80	1.02	40	1.11
3000	1.12	100	1.06	45	1.12
3500	1.14	120	1.09	50	1.14
4000	1.16	140	1.13	55	1.16
4500	1.18	160	1.17	60	1.17
5000	1.20	180	1.21	65	1.19
6000	1.25	200	1.25	70	1.21
7000	1.30	300	1.43	75	1.23
8000	1.35	400	1.62	85	1.26
9000	1.40	500	1.81		
10000	1.45	600	2.00		



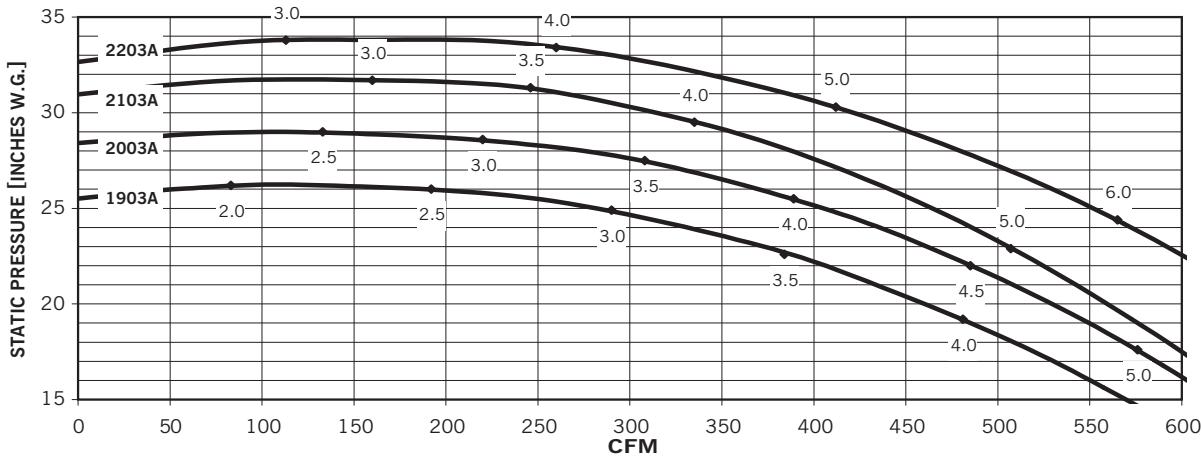
PERFORMANCE AT 3500 RPM



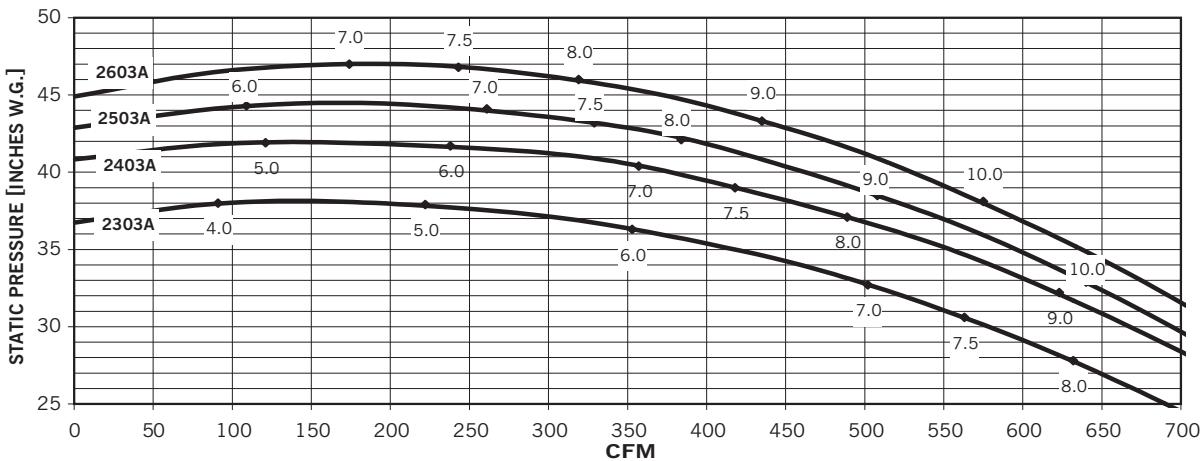
Aluminum Wheel
Pressure Blower

NOTE: Values shown on curves indicate brake horsepower [BHP] required.

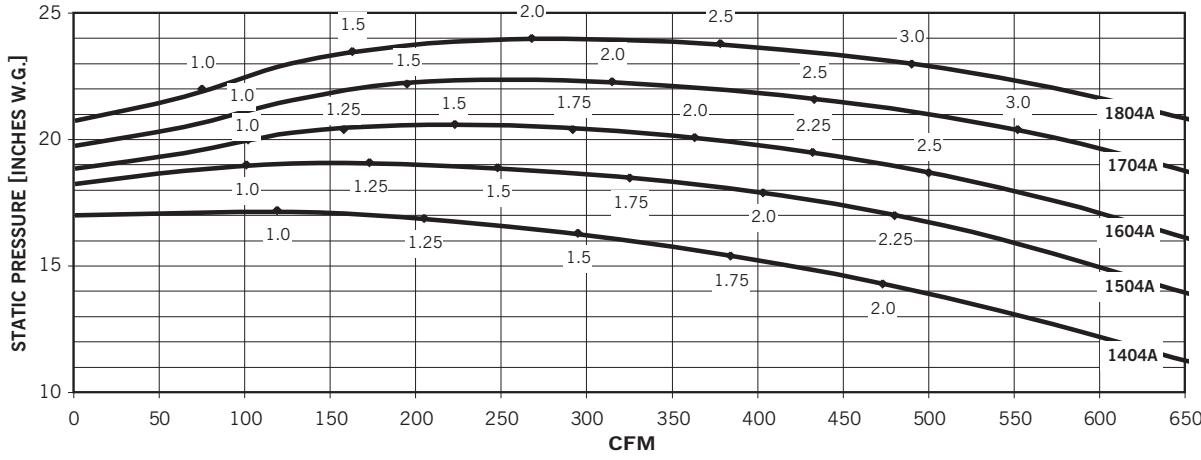
**1903A-
2203A**



**2303A-
2603A**



**1404A-
1804A**



Performance certified is 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).

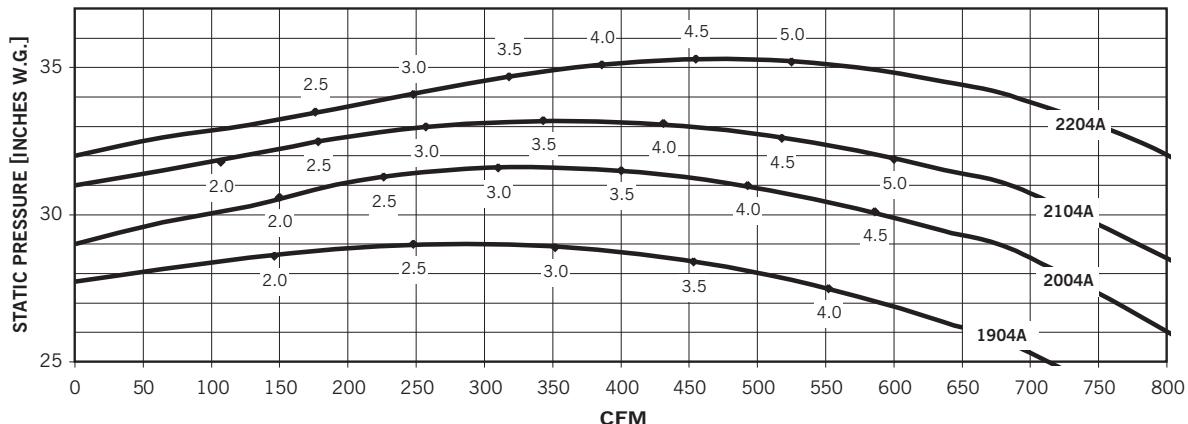
PERFORMANCE AT 3500 RPM

Aluminum Wheel
Pressure Blower

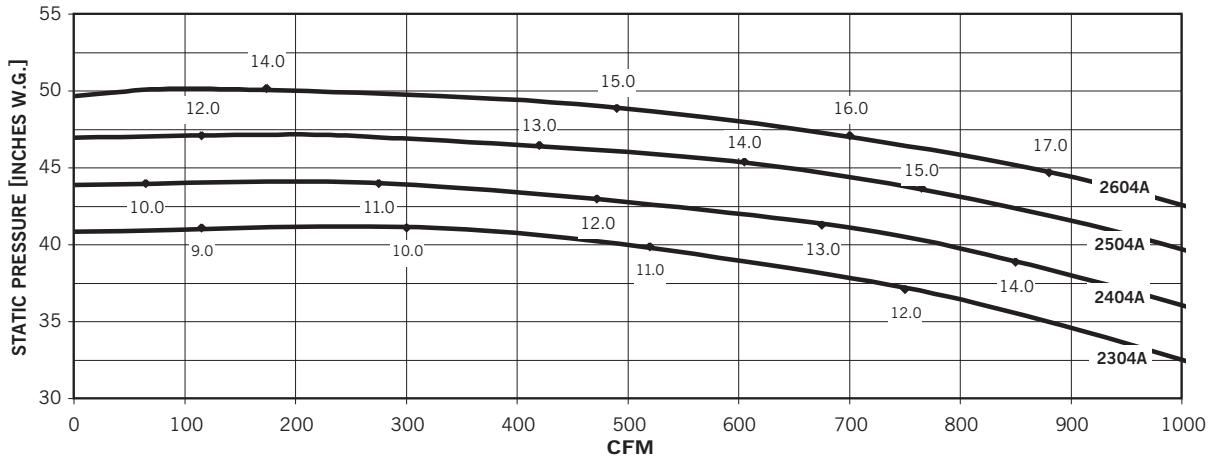
NOTE: Values shown on curves indicate brake horsepower [BHP] required.



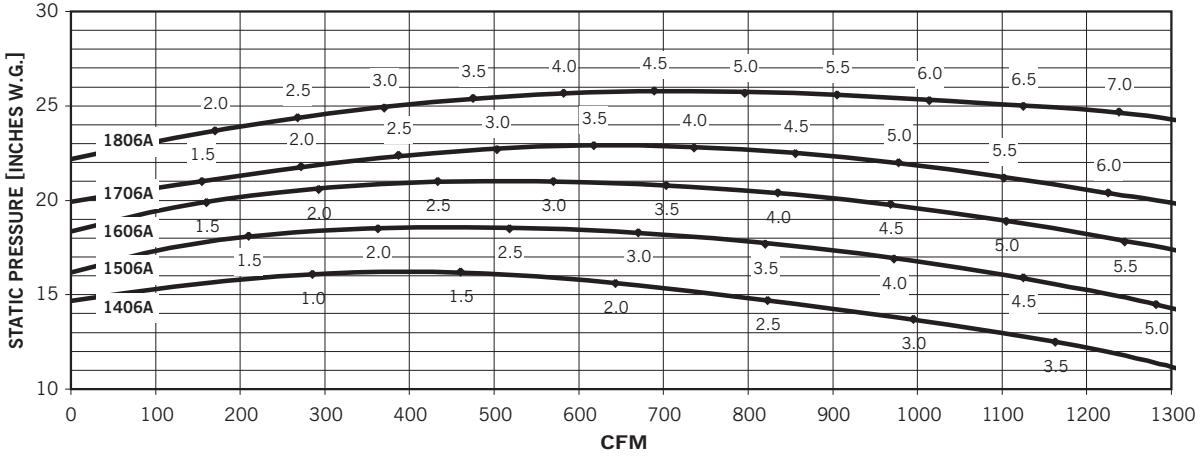
**1904A-
2204A**



**2304A-
2604A**



**1406A-
1806A**



Performance certified is 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).

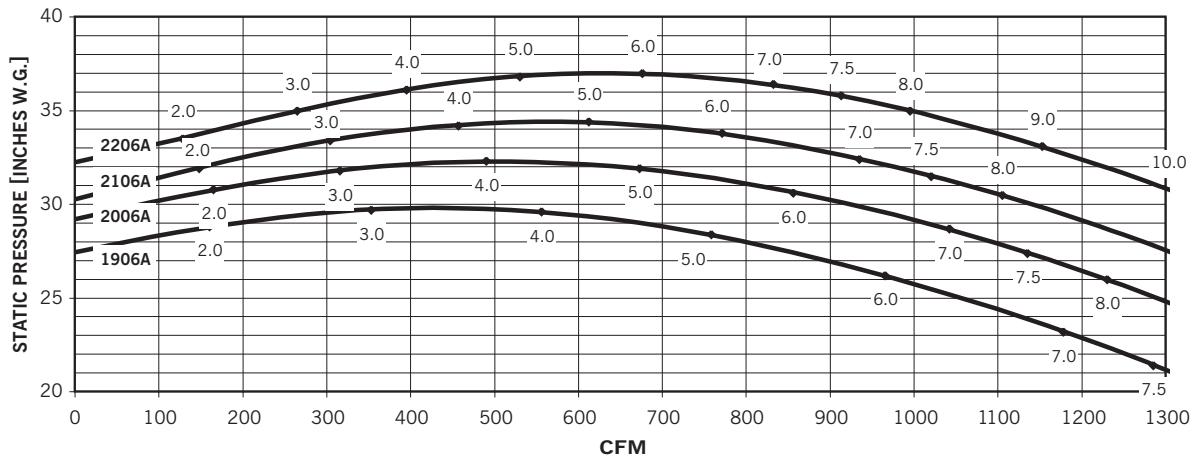
PERFORMANCE AT 3500 RPM



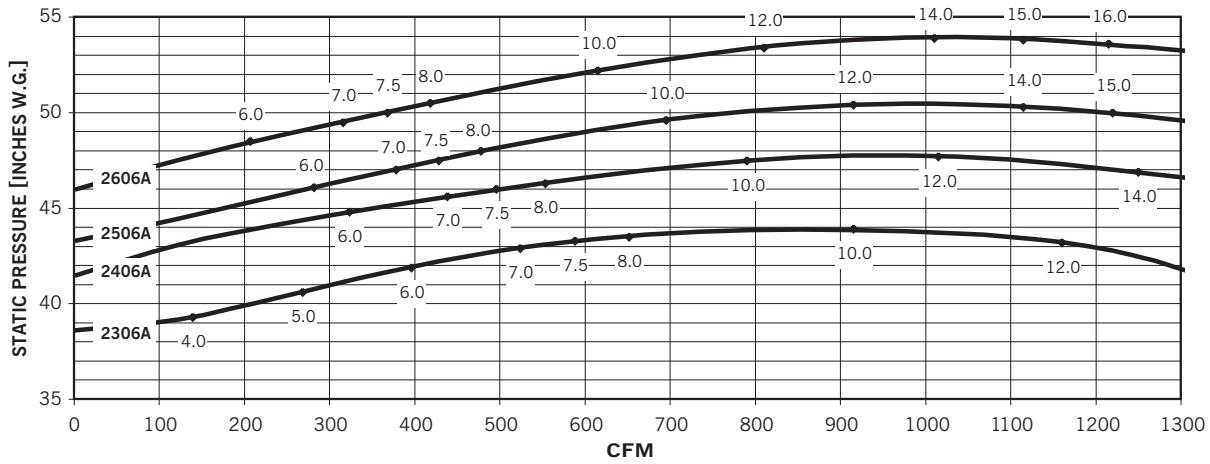
Aluminum Wheel
Pressure Blower

NOTE: Values shown on curves indicate brake horsepower [BHP] required.

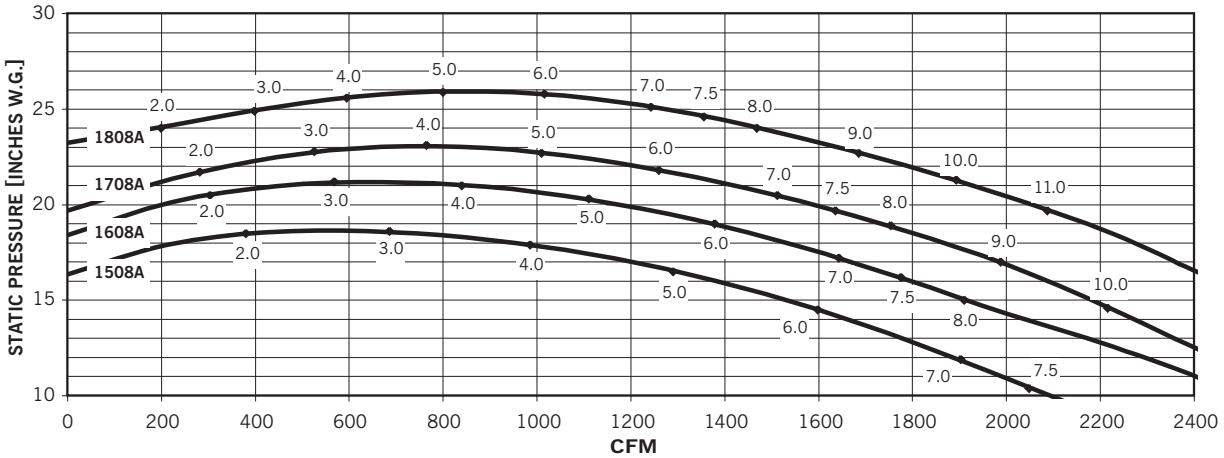
**1906A-
2206A**



**2306A-
2606A**



**1508A-
2208A**

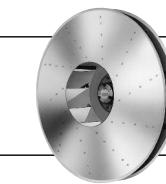


Performance certified is installation Type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects of appurtenances (accessories).

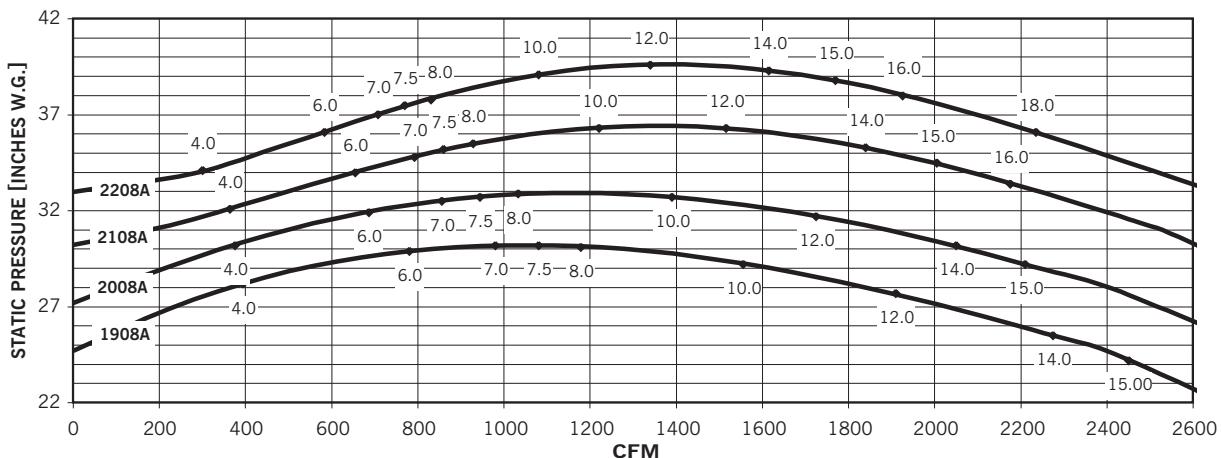
PERFORMANCE AT 3500 RPM

Aluminum Wheel
Pressure Blower

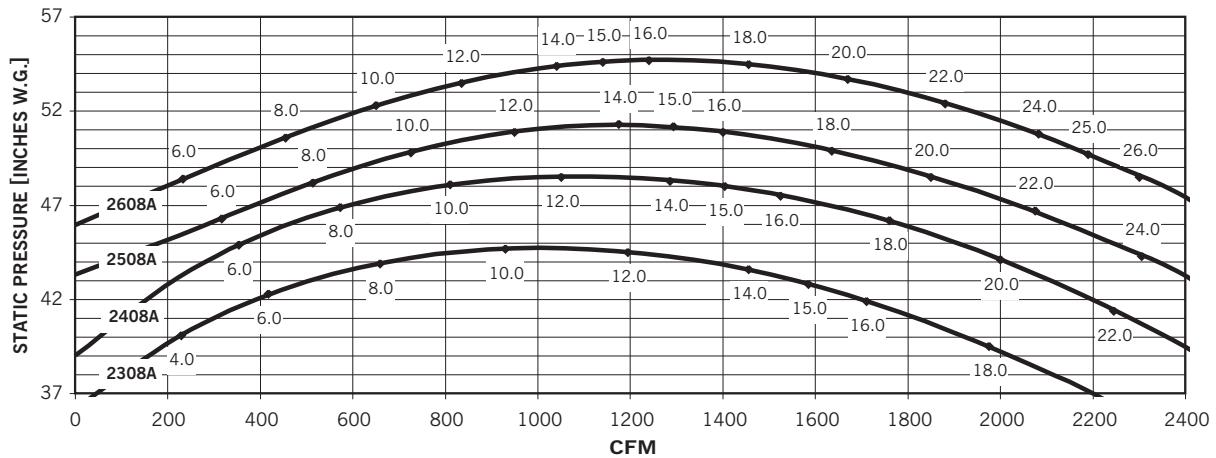
NOTE: Values shown on curves indicate brake horsepower [BHP] required.



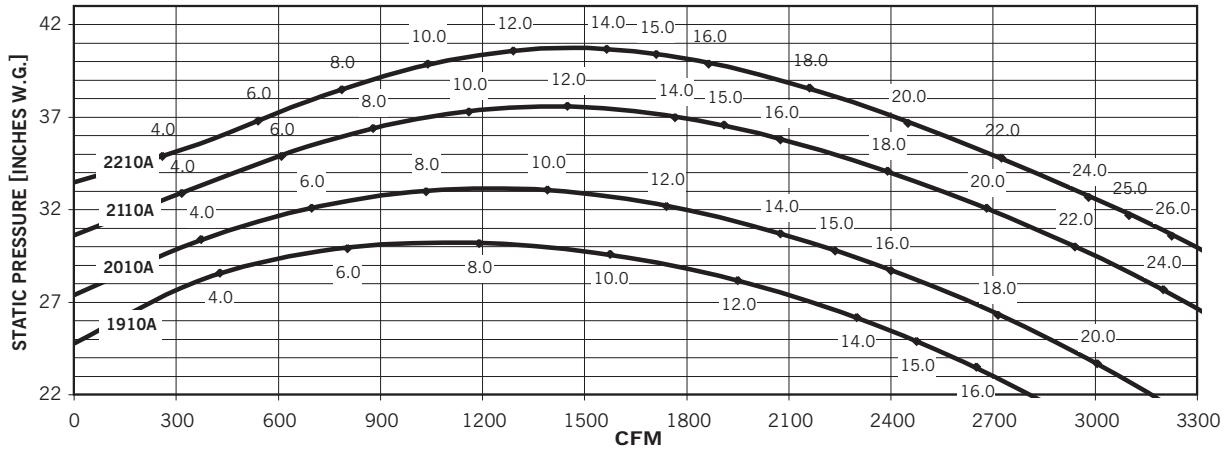
**1908A-
2208A**



**2308A-
2608A**



**1910A-
2210A**



Performance certified is 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).

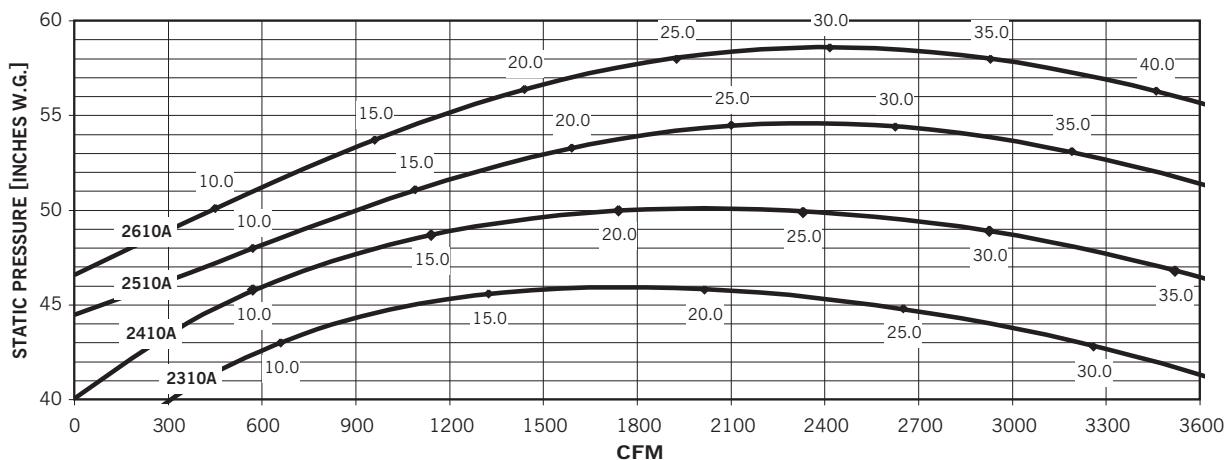
PERFORMANCE AT 3500/3550 RPM



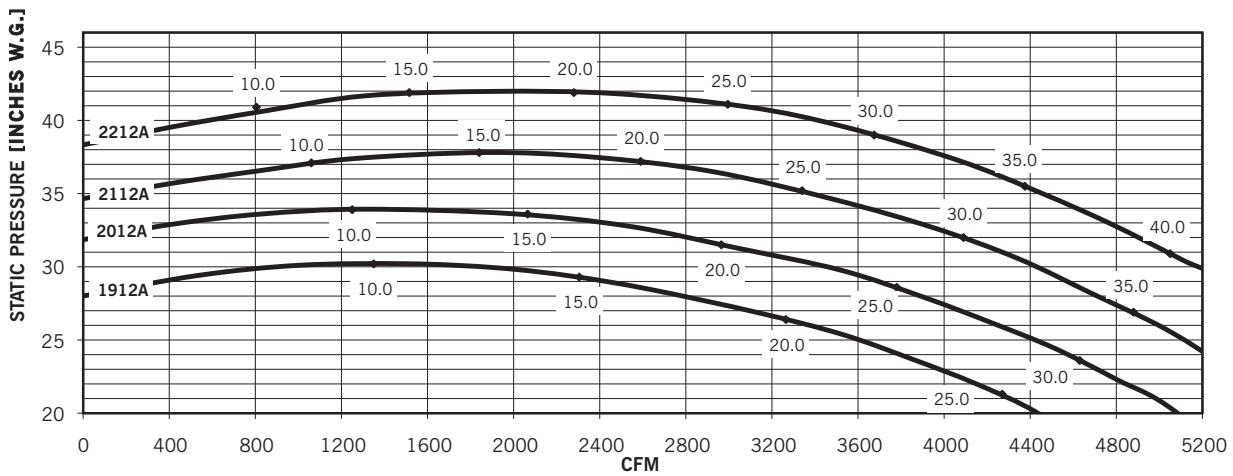
Aluminum Wheel
Pressure Blower

NOTE: Values shown on curves indicate brake horsepower [BHP] required.

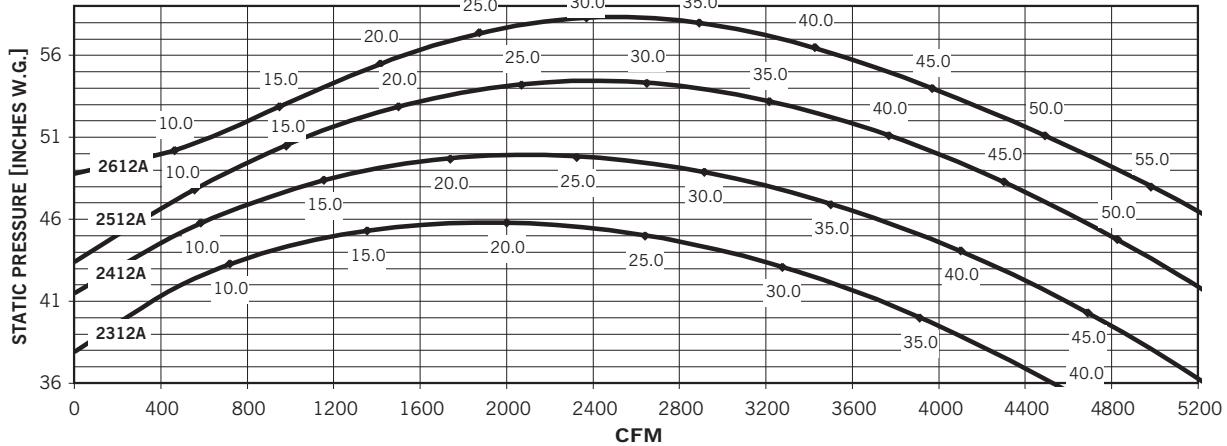
**2310A-
2610A**



**1912A-
2212A**



**2312A-
2612A**



Performance certified is 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).

SPECIFICATIONS

U.S. standard sheet gauge to 7 gauge. Dimensions in inches. Weights in pounds. WR² in lb.-ft.².

WHEEL SPECIFICATIONS

Size	Aluminum		Steel	
	Wt.	WR ²	Wt.	WR ²
1403	10.1	0.96	19.7	2.74
1404	8.5	1.43	18.0	3.04
1406	11.7	2.40	20.5	3.46
1503	10.8	1.23	21.8	3.59
1504	8.8	1.69	19.0	3.68
1506, 1508	11.8	2.40	21.5	4.16
1603	11.5	1.53	23.9	4.56
1604	9.0	1.98	20.0	4.41
1606, 1608	12.1	2.50	23.0	5.07
1703	12.3	1.93	26.3	5.79
1704	9.3	2.30	21.0	5.22
1706, 1708	12.2	2.60	24.5	6.09
1803	13.0	2.36	28.6	7.16
1804	9.5	2.65	22.0	6.13
1806, 1808	12.4	2.60	26.0	7.25
1903	14.2	2.92	31.1	8.42
1904, 1906	12.0	3.73	29.5	9.16
1908, 1910	15.1	5.10	34.5	10.72
1912	12.9	5.07	32.8	10.15
2003	15.1	5.02	33.7	10.23
2004, 2006	12.3	4.22	31.0	10.67
2008, 2010	15.3	5.20	36.5	12.56
2012	13.1	5.21	36.1	12.37
2103	16.0	4.24	36.5	12.31
2104, 2106	12.5	4.74	32.5	12.33
2108, 2110	15.5	5.30	38.0	14.42
2112	13.3	5.34	39.4	14.91
2203	17.1	5.02	39.3	14.70
2204, 2206	12.8	5.31	34.0	14.16
2208, 2210	15.6	5.40	40.0	16.66
2212	13.5	5.48	42.9	17.80
2303	18.3	6.07	49.4	20.83
2304	19.8	6.50	52.5	22.27
2306, 2308	18.5	8.42	45.0	20.93
2310, 2312	21.7	10.60	53.5	24.35
2403	19.4	7.16	53.1	24.50
2404	20.9	7.80	56.4	26.14
2406, 2408	18.8	9.29	48.0	23.79
2410, 2412	21.9	10.80	56.0	27.75
2503	20.5	8.33	56.9	28.64
2504	22.0	9.00	60.4	30.49
2506, 2508	19.0	10.22	50.0	26.89
2510, 2512	21.9	11.00	58.5	31.46
2603	21.8	9.63	60.9	33.27
2604	23.1	10.30	64.5	35.36
2606, 2608	19.3	11.20	52.0	30.24
2610, 2612	22.3	11.20	61.0	35.48

MATERIAL SPECIFICATIONS

HOUSING				
Wheel diameter	Sides	Scroll	Inlet plate	Drive plate
14-18	10	10	1/4	10
19-22	10	10	1/4	10
23-26	10	10	1/4	10

SHAFT DIAMETER				
Wheel diameter	Arrangement 1		Arrangement 8	
	Standard	Heat Fan with Shaft Seal	Standard	Heat Fan with Shaft Seal
14-18	17/16	17/16	17/16	17/16
19-22	17/16	111/16	17/16	17/16
23-26	111/16	115/16	17/16	111/16

SHAFT DIAMETER				
Wheel diameter	Arrangement 9		Arrangement 10	
	Standard	Heat Fan with Shaft Seal	Standard	Heat Fan
14-18	17/16	17/16	17/16	17/16
19-22	111/16	111/16	17/16	17/16
23-26	115/16	115/16	111/16	111/16

BEARINGS*				
Wheel diameter	Arrangement 1/9		Arrangement 8	Arrangement 10
	Inboard	Outboard		
14-18	A	A‡	A	A
19-22	B	B	A	B
23-26	C	B‡	A	B

A-200 Series ball bearing. B-22400 Series roller bearing.

C-300 Series ball bearing.

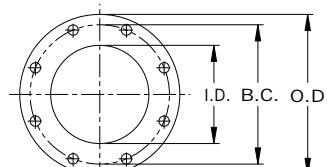
* reserves the right to substitute bearings of equal rating.

‡ Fans with heat fan construction and shaft seal:

Arr. 1: Sizes 23-26 include a shaft turndown at the outboard bearing, with a bearing size of 111/16". Inboard bearing size is 115/16".

Arr. 9: Sizes 14-18 include a Type B outboard bearing, in lieu of the standard Type

FLANGE



DIMENSIONS [INCHES]

Size	I.D.	O.D.	Bolt circle	Holes† No. - size
03	3	7 1/2	6	4 - 3/4"
04	4	9	7 1/2	8 - 3/4"
05	5	10	8 1/2	8 - 7/8"
06	6	11	9 1/2	8 - 7/8"
08	8	13 1/2	11 3/4	8 - 7/8"
10	10	16	14 1/4	12 - 1"
12	12	19	17	12 - 1"

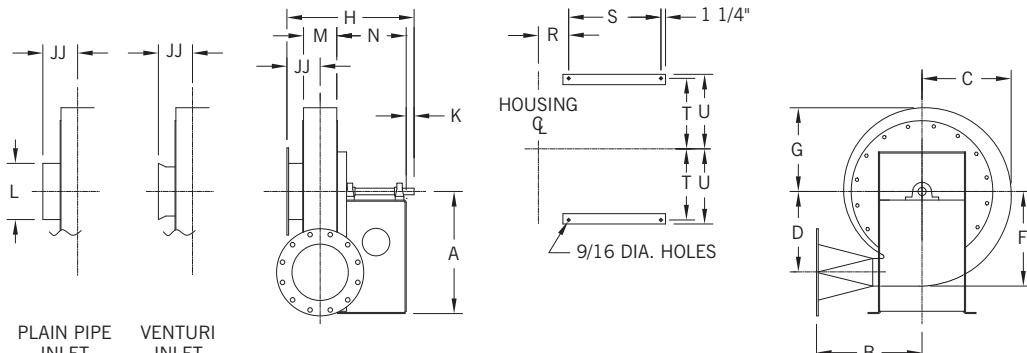
† Holes straddle centerline. ANSI Class 125/150 hole pattern. Flange thickness 3/8"

ARRANGEMENTS

1/9

PRESSURE BLOWERS

Maximum Airstream Temperature:
200°F. – aluminum wheel.
300°F. – steel wheel.
600°F. – heat fan.

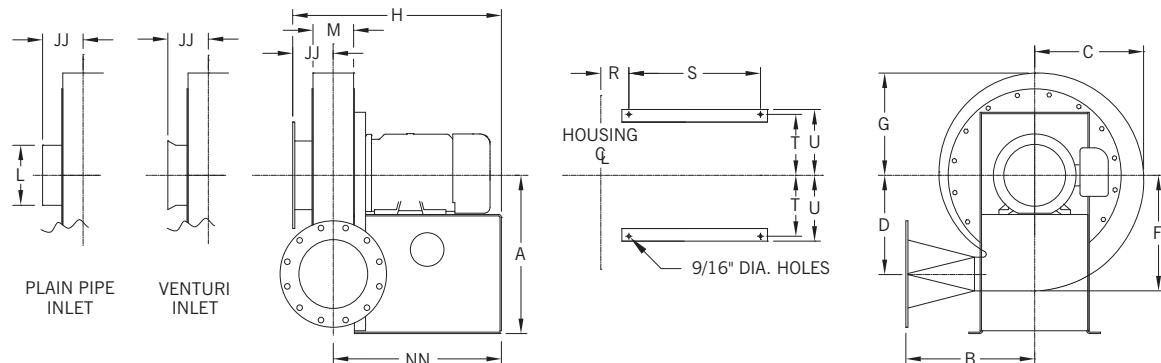


ARRANGEMENT

4

PRESSURE BLOWERS

Maximum Airstream Temperature:
180°F.

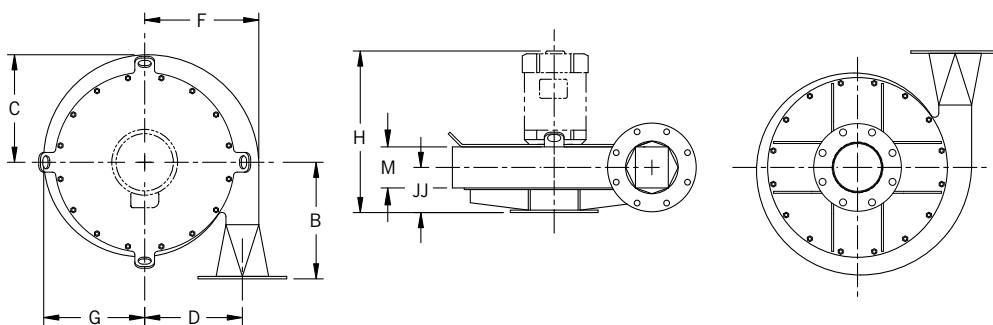


ARRANGEMENT

4-V

PRESSURE BLOWERS

Maximum Airstream Temperature:
120°F.

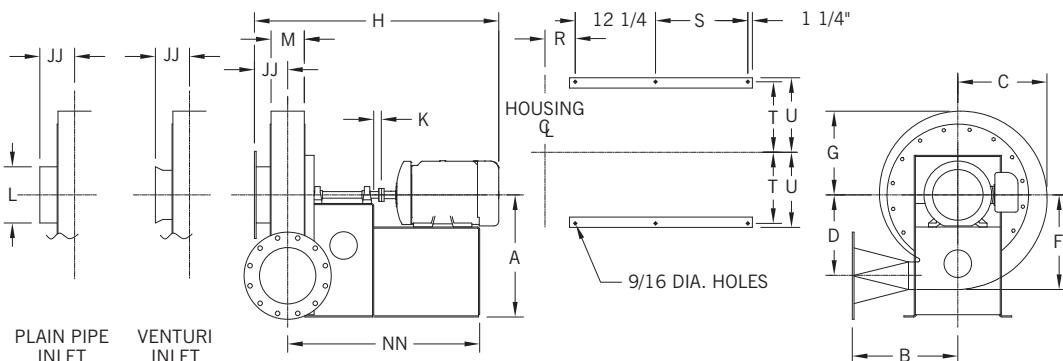


ARRANGEMENT

8

PRESSURE BLOWERS

Maximum Airstream Temperature:
200°F. – aluminum wheel.
300°F. – steel wheel.
600°F. – heat fan.

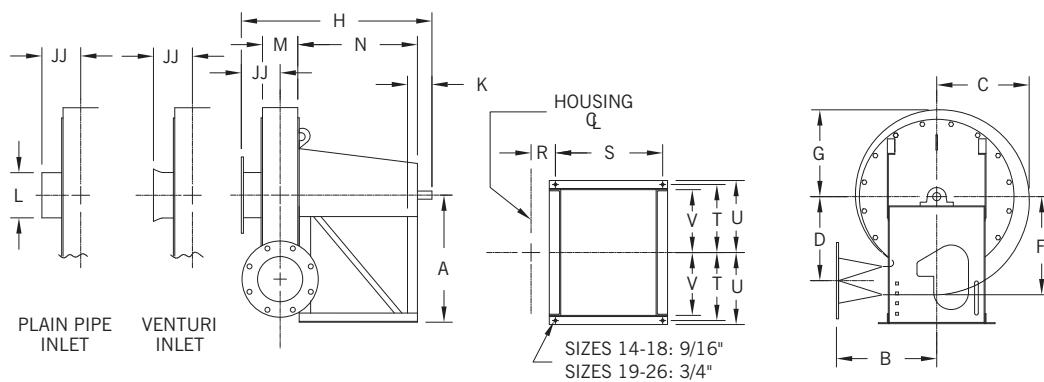


ARRANGEMENT

10

PRESSURE BLOWERS

Maximum Airstream Temperature:
200°F. – aluminum wheel.
300°F. – steel wheel.
600°F. – heat fan.



ARRANGEMENTS 1, 4, 4-V, 8, 9, 10

Dimensions not to be used for construction unless certified. Bare fan weight does not include wheel or motor. Weights in pounds. Wheel weights on page 11.

HOUSING DIMENSIONS [INCHES]

Fan Size	Outlet Size	Inlet Size	B	C	D	F	G	M	JJ [Inlet types]			L	
									Flanged	Plain pipe	Venturi		
14-18	03	05	18 ¹ / ₄	13 ⁵ / ₈	11 ³ / ₄	14 ³ / ₈	12 ³ / ₄	27/8	5 ¹ / ₁₆	4 ¹¹ / ₁₆	4 ⁹ / ₁₆	5 ⁹ / ₁₆	
	04	06							3 ⁷ / ₈	5 ⁹ / ₁₆	5 ³ / ₁₆	4 ¹³ / ₁₆	6 ⁵ / ₈
	06	08							6 ¹ / ₄	6 ³ / ₄	6 ³ / ₈	6 ³ / ₈	8 ⁵ / ₈
	08	08							27/8	5 ⁹ / ₁₆	5 ³ / ₁₆	5 ³ / ₁₆	5 ⁹ / ₁₆
19-22	03	05	17 ³ / ₄	16 ¹ / ₂	14 ⁷ / ₈	17 ¹ / ₂	15 ¹ / ₂	27/8	5 ⁹ / ₁₆	5 ³ / ₁₆	5 ³ / ₁₆	5 ⁹ / ₁₆	
	04	06							3 ⁷ / ₈	6 ¹ / ₁₆	5 ¹¹ / ₁₆	5 ⁵ / ₁₆	6 ⁵ / ₈
	06	06							6 ¹ / ₄	6 ³ / ₄	6 ³ / ₈	6 ³ / ₈	8 ⁵ / ₈
	08	08							7 ¹ / ₄	7 ¹ / ₄	6 ⁷ / ₈	6 ⁷ / ₈	10 ³ / ₄
	10	10			21 ³ / ₄				3 ⁵ / ₈	6 ⁵ / ₁₆	5 ¹⁵ / ₁₆	5 ⁹ / ₁₆	
23-26	12	12	23	19 ¹ / ₂	17 ⁵ / ₈	20 ⁵ / ₈	18 ¹ / ₄	5	7	6 ⁵ / ₈	6 ⁵ / ₈	6 ⁵ / ₈	8 ⁵ / ₈
	03	05							7 ¹ / ₄	7 ¹ / ₄	6 ⁷ / ₈	6 ⁷ / ₈	10 ³ / ₄
	04	06							3 ⁵ / ₈	6 ⁵ / ₁₆	5 ¹⁵ / ₁₆	5 ⁹ / ₁₆	
	06	08							5	7	6 ⁵ / ₈	6 ⁵ / ₈	
	08	08							7 ¹ / ₄	7 ¹ / ₄	6 ⁷ / ₈	6 ⁷ / ₈	10 ³ / ₄
	10	10											

BARE FAN WEIGHTS AND MOTOR LIMITATIONS

Fan Size	Outlet Size	Inlet Size	Arr. 1 Wt.	Motor Frame Size (Arr. 4, 8)	Weight		Arr. 4-V		Arr. 9			Arr. 10				
					Arr. 4	Arr. 8	Motor Frame Size	Weight	Pedestal Number	Weight	Weight	Max. Motor Size	ODP	TEFC	C-NW	
14-18	03	05	200	143T-145T	145	285	182TC-184TC	120	03	1	190	220	215T	215T	16 ⁵ / ₈	
	04	06	205	143T-145T	150	295	182TC-184TC	130		2	225					
	06	08	220	143T-145T	165	300	182TC-184TC	135		3	260					
				182T-184T	190	305	213TC-215TC			4	300					
15-18	08	08	220	182T-184T	190	310	182TC-184TC	145	04	1	195	230	215T	215T	16 ⁵ / ₈	
				213T-215T	315	213TC-215TC	2		235							
19-22	03	05	270	143T-145T	370	375	182TC-184TC	160		3	265					
	04	06	275	182T-184T	385	390	213TC-215TC			4	305					
	06	06	275	143T-145T	385	390	182TC-184TC	175	06,08	5	280	245	256T	254T	18 ⁵ / ₈	
				182T-184T	395	213TC-215TC	6		300							
	08	08	290	182T-184T	410	415	213TC-215TC	190		7	340					
				254T-256T	420	430	254TC-256TC			8	360					
23-26	10	10	300	213T-215T	420	430	213TC-215TC	190	12	9	370	350	256T	254T	18 ⁵ / ₈	
				254T-256T	430	440	254TC-256TC			10	315					
	12	12	320	254T-256T	445	455	284TSC-286TSC	215		11	335					
				284T-286T	455	460	284TSC-286TSC			12	375					
				324TS-326TS	460	470	324TSC-326TSC			13	405					
23-26	03	05	330	182T-184T	435	445	182TC-184TC	205	03,04	5	340	355	256T	254T	18 ⁵ / ₈	
	04	06	350	213T-215T	445	455	213TC-215TC			6	360					
	06	08	365	182T-184T	465	470	182TC-184TC	230		7	405					
				213T-215T	465	470	213TC-215TC			8	420					
	08	08	365	254T-256T	485	490	254TC-256TC	235		9	430					
				213T-215T	495	500	284TSC-286TSC			10	435					
23-26	10	10	385	254T-256T	500	505	254TC-256TC	255	06,08	11	440	360	256T	254T	18 ⁵ / ₈	
				284T-286T	505	510	284TSC-286TSC			12	460					
	12	12	395	324TS-326TS	515	520	324TSC-326TSC	265		13	490					
				324TS-326TS	520	520	324TSC-326TSC			14	570					

N/A: Not Available due to motor shaft/wheel fit.

ARRANGEMENTS 4, 4-V, 8

Dimensions not to be used for construction unless certified. Note: See page 12 for dimensional drawings.

Wheel dia.	Outlet Size	Inlet flange	Arr. 4 & 8 Motor Frame Size	A		H*		Arr. 4-V Motor Frame Size	H*	K	NN		R	S		T		U		
				Arr. 4	Arr. 8†	Arr. 4	Arr. 8		Arr. 4-V	Arr. 8	Arr. 4	Arr. 8		Arr. 4	Arr. 8	Arr. 4	Arr. 8	Arr. 4	Arr. 8	
14-18	03	05	143T-145T	17 3/4		18	38	182TC-184TC	20 7/8		12 15/16	31 5/16	2 13/16	8 5/8	15					
			182T-184T	19		23 1/2	40 5/8				17 13/16	32 13/16		14 1/8	16 1/2					
	04	06	143T-145T	17 3/4		19	39		21 7/8		13 7/16	31 13/16	3 5/16	8 5/8	15					
			182T-184T	19		24 1/2	41 5/8				18 5/16	33 5/16		14 1/8	16 1/2					
	06	08	143T-145T	17 3/4		21 3/8	41 3/8		24 1/4		14 5/8	33	4 1/2	8 5/8	15					
			182T-184T	19		26 1/8	44				20 1/8	34 1/2		14 1/8	16 1/2					
			213T-215T	19 3/4		46 5/8	213TC-215TC	25 1/2	2 1/8		36 3/4			18 3/4						
			182T-184T	19		26 1/8	44	182TC-184TC	24 1/4	3 3/8	20 1/8	34 1/2	4 1/2	14 1/8	16 1/2					
			213T-215T	19 3/4		46 5/8	213TC-215TC	25 1/2	2 1/8		36 3/4			18 3/4						
15-18	08	08	143T-145T	23		38 1/2		182TC-184TC	20 7/8	3 3/8	18 7/16	31 5/16	2 13/16	14 1/8	15					
			182T-184T	24		41 1/8					32 13/16			16 1/2						
			213T-215T	24 3/4		43 3/4	213TC-215TC	22 5/8	2 1/8		35 1/16			18 3/4						
	04	06	143T-145T	23		39 1/2		22 3/8	3 3/8	18 15/16	31 13/16	3 5/16	14 1/8	15						
			182T-184T	24		42 1/8				33 5/16			16 1/2							
			213T-215T	24 3/4		44 3/4	213TC-215TC	23 5/8	2 1/8		35 1/16			18 3/4						
	06	06	143T-145T	23		39 1/2		22 3/8	3 3/8	18 15/16	31 13/16	3 5/16	14 1/8	15						
			182T-184T	24		42 1/8				33 5/16			16 1/2							
			213T-215T	24 3/4		44 3/4	213TC-215TC	23 5/8	2 1/8		35 1/16			18 3/4						
19-22	08	08	182T-184T	24		44	182TC-184TC	24 1/4	3 3/8	20 1/8	34 1/2	4 1/2	14 1/8	16 1/2						
			213T-215T	24 3/4		46 5/8	213TC-215TC	25 1/2	2 1/8		36 3/4		18 3/4							
			254T-256T	26		32 1/4	51 3/8	254TC-256TC	26 5/8		25 1/2	42 1/8	19 1/2	24 1/8						
	10	10	213T-215T	24 3/4		26 1/8	46 5/8	213TC-215TC	25 1/2		20 1/8	36 3/4	4 1/2	14 1/8	16 1/2					
			254T-256T	26		32 1/4	51 3/8	254TC-256TC	26 5/8		25 1/2	42 1/8		19 1/2	24 1/8					
			284TS-286TS	26 3/4		32 1/4	53 3/8	284TCS-286TCS	33 3/8		25 1/2	42 1/8		19 1/2	24 1/8					
	12	12	254T-256T	26		33 1/4	52 3/8	254TS-256TS	27 5/8		26	42 1/8	5	19 1/2	24 1/8					
			284TS-286TS	26 3/4		33 1/4	54 3/8	284TSC-286TSC	34 3/8		30	43 3/8		19 1/2	24 1/8					
			324TS-326TS	29 1/4		37 1/4	57 7/8	324TSC-326TSC	36 3/8		30	46 1/8		23 1/2	27 7/8					
23-26	03	05	182T-184T	24		25 1/8	42 3/4	182TC-184TC	22 1/2		18 13/16	33 11/16	3 3/16	14 1/8	17					
			213T-215T	24 3/4		45 3/8	213TC-215TC	N/A			35 15/16			19 1/4						
			254T-256T	26		30 1/2	50 1/8	254TC-256TC	N/A		24 3/16	41 1/16		19 1/2	24 5/8					
	04	06	182T-184T	24		26 1/2	44 1/8	182TC-184TC	23 7/8		19 1/2	34 5/8	3 7/8	14 1/8	17					
			213T-215T	24 3/4		46 3/4	213TC-215TC	N/A			36 5/8			19 1/4						
			254T-256T	26		31 1/8	51 1/2	254TC-256TC	N/A		24 7/8	42		19 1/2	24 5/8					
	06	08	182T-184T	24		26 1/2	44 1/8	182TC-184TC	23 7/8		19 1/2	34 5/8	3 7/8	14 1/8	17					
			213T-215T	24 3/4		46 3/4	213TC-215TC	25 1/8			36 5/8			19 1/4						
			254T-256T	26		31 1/8	51 1/2	254TC-256TC	26 1/4		24 7/8	42		19 1/2	24 5/8					
	08	08	213T-215T	24 3/4		26 1/2	46 3/4	213TC-215TC	25 1/8		19 1/2	36 5/8	3 7/8	14 1/8	17					
			254T-256T	26		31 1/8	51 1/2	254TC-256TC	26 1/4		24 7/8	42		19 1/2	24 5/8					
			284TS-286TS	26 3/4		31 1/8	53 1/2	284TS-286TS	33		24 7/8	42 3/4		19 1/2	25 3/8					
	10	10	254T-256T	26		33 1/4	52 7/8	254TC-256TC	27 5/8		26	43 1/8	5	19 1/2	24 5/8					
			284TS-286TS	26 3/4		34 7/8	54 7/8	284TCS-286TCS	34 3/8		43 1/8			23 1/2	25 3/8					
			324TS-326TS	29 1/4		37 1/4	58 5/8	324TCS-326TCS	36 3/8		30	46 1/8		23 1/2	27 7/8					
	12	12	284TS-286TS	28 1/4		37 1/4	54 7/8	284TCS-286TCS	34 3/8		30	43 1/8	5	23 1/2	25 3/8					
			324TS-326TS	29 1/4		37 1/4	58 5/8	324TCS-326TCS	36 3/8		30	43 1/8		23 1/2	27 7/8					

N/A = Not Available

Tolerance: $\pm 1/8"$

* Dimensions may vary slightly depending on motor manufacturer. Given "H" dimensions were based on the larger of those motors most frequently

† On fan Sizes 23-26 with Size 12 outlet and Bottom Horizontal discharge, the flange extends 1/2" below the floorline.

ARRANGEMENTS 1, 9, 10

Dimensions not to be used for construction unless certified. Note: See page 12 for dimensional drawings.

ARRANGEMENTS 1, 9, & 10 DIMENSIONS [INCHES]

Wheel dia.	Outlet Size	Inlet flange	A†		H		K		N		R		S		T		U		V	
			Arr. 1	Arr. 10	Arr. 1	Arr. 10	Arr. 1/9	Arr. 10	Arr. 1	Arr. 10	Arr. 1/9	Arr. 10	Arr. 1	Arr. 10	Arr. 1/9	Arr. 10	Arr. 1/9	Arr. 10	Arr. 1/9	Arr. 10
14-18	03	05	19½	21	24½	30½	3	3½	15½	22	21¾	37/8	17¾	9½	9¾	10	10½	8½		
	04	06			25½	31½					35/16	43/8								
	06	08			28	33½					4½	5½								
15-18	08	08	23½	27½	26½	35½	4	4½	15½	26	21¾	45/8	19¾	10¾	12½	11¾	13	11		
	03	05			27½	36½					35/16	5½								
19-22	04	06	23½	27½	29	38	5	4½	15½	26	4½	6½	19¾	10¾	12½	11¾	13	11		
	06	06			30	39					5	6¾								
	08	08			28½	36½					3¾	4½								
	10	10			29½	37½					37/8	5½								
	12	12			31	39					5	6¾								
23-26	03	05	26½	27½	29½	37½	5	4½	15½	26	33/16	4½	19¾	10¾	12½	11¾	13	11		
	04	06			30	39					37/8	5½								
	06	08			31	39					5	6¾								
	08	08			32	40					37/8	5½								
	10	10			33	41					5	6¾								
	12	12			34	42					5	6¾								

† On fan sizes 12, outlet and Bottom Horizontal discharge, the flange extends ½" below the floorline.

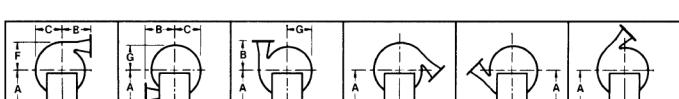
Tolerance: ± 1/8"

ARRANGEMENT 9 DIMENSIONS [INCHES]

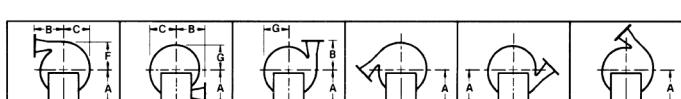
Fan Size	Outlet Size	Pedestal Number	H	Fan Size	Outlet Size	Pedestal Number	H	Fan Size	Pedestal Number	Max. C-NW	Max. Frame Size	A	N	S
14-18	03	1	24½	19-22	08, 10	5	29	14-18	1	13½			15½	12½
		2	28½			6	32½		2	17¾	256T	19½	18½	16
		3	32½			7	36½		3	21½			22½	19¾
		4	35½			8	39½		4	24½	284T	23½	25¾	22½
	04	1	25½		12	5	30		5	13½			15½	12½
		2	29½			6	33½		6	17¾			18½	16
		3	33½			7	37½		7	21½	326T	23½	22½	19¾
		4	36½			8	40½		8	24½			25¾	22½
	06, 08	1	28		03	10	35½		9	26½			27¾	24½
		2	31½			11	38½		10	21½			22½	19¾
		3	35½			12	40½		11	24½	326T	26½	25¾	22½
		4	38½			13	42½		12	26½			27¾	24½
		5	26½			10	37½		13	28½	365T	30½	29¾	26½
		6	29½			11	40½		14	32½			25¾	22½
		7	33½			12	42½		15	21½			22½	19¾
		8	36½			13	44½		16	24½	326T	26½	25¾	22½
		9	38½			10	38½		17	26½			27¾	24½
		5	27½			11	41½		18	28½	365T	30½	29¾	26½
	04, 06	6	30½			12	43½		19	26½			27¾	24½
		7	34½			13	45½		20	28½	365T	30½	29¾	26½
		8	37½			14	48½		21	32½			25¾	22½
		9	39½			15	51½		22	34½	365T	30½	29¾	26½
		5	27½			16	54½		23	36½			27¾	24½

Tolerance: ± 1/8"

FAN DISCHARGES – VIEWED FROM DRIVE SIDE



Clockwise—angular discharges at 45°



Counterclockwise—angular discharges at 45°

Housings are reversible and rotatable in 22½° increments except Down Blast and Bottom Angular Down which require special construction. Arrangement 10 fans Sizes 19-22 are not rotatable in the field.

COMPLETE SELECTION OF AIR-MOVING EQUIPMENT



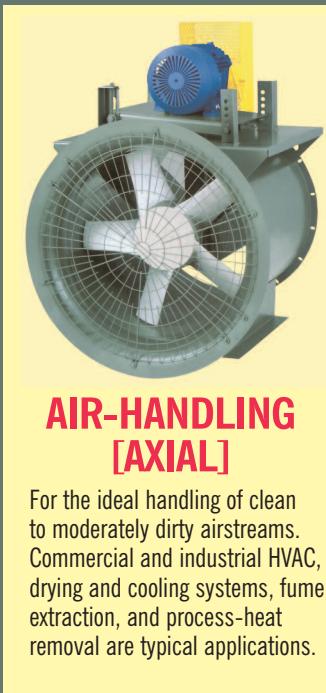
DUST/MATERIAL HANDLING

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.

