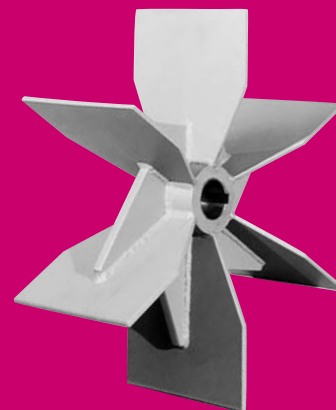
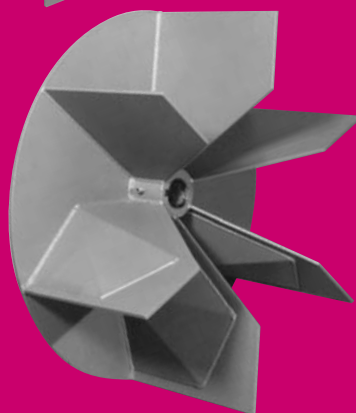


Industrial Exhausters

Series 05

Series 05F



HARTZELL®

Hartzell Fan, Inc., Piqua, Ohio 45356
www.hartzellfan.com

Bulletin A-155-I October 2007

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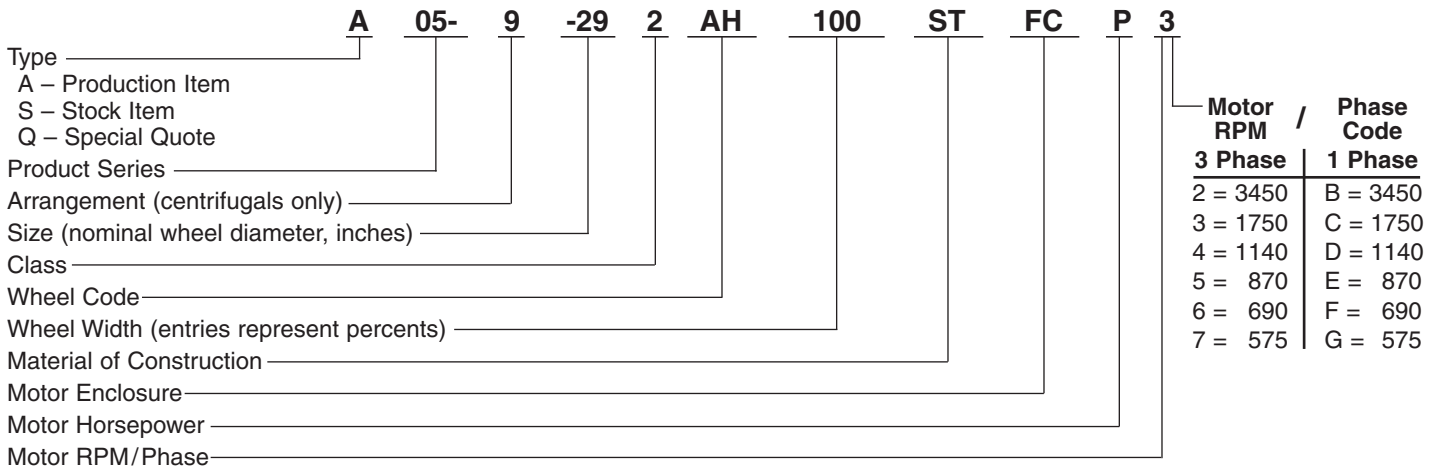


Certified Ratings for Air Performance

Hartzell Fan, Inc. certifies that the Series 05 and Series 05F Industrial Exhausters, with the Air Wheel, (type AH), Open Wheel, (Type MH), and Open Paddle Wheel, (Type PW), shown on pages 5 through 24 are licensed to bear the AMCA Seal for Air Performance. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

Certificates of Design Assessment are issued by the American Bureau of Shipping. The assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. The certificates, by itself, do not reflect that the products are Type Approved.

Hartzell Model Code Explanation



Motor Horsepower

Horsepower	1/4	1/3	1/2	3/4	1	1 1/2	2	3	5	7 1/2	10	15	20	25	30	40	50	60	75	100	125	150	200
Code Letter	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z

Example:

Assume a needed performance of 6,000 CFM at 14" SP, standard air for a dust collector. Reading the Rating Table on page 17 we find a Series 05 Industrial Exhauster, Size 29" with a type AH wheel, 100% Width, Class II Construction with a fan RPM of 1,719 and brake horsepower (BHP) of 18.5.

The model code can be constructed as follows: Type will be a production item (code A), product series for the Industrial

Exhauster is 05-, Arrangement desired is 9, size is 29, Class is 2, Blade Type is AH, 100 for percentage width, material for construction is Steel (code ST), motor enclosure will be Totally Enclosed, Fan Cooled (code FC), motor horsepower is 20 (code P), and motor RPM/phase is 1750 (code 3).

Note: All other informational fields must be filled with hyphens/dashes (-) if they are not applicable to the fan being considered.

This bulletin lists Hartzell's line of Industrial Exhausters and accessories. More than 70 Hartzell offices can provide specific performance and installation data to meet your requirements. Call your Hartzell representative for assistance. Visit our website (www.hartzellfan.com) or call toll-free 1(800) 336-3267 for the name of your Hartzell representative.



Series 05- Industrial Exhausters



**Series 05-
Fixed Housing**



**Series 05-
Rotatable Housing**



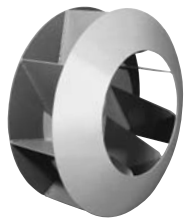
**Series 05 Arrangement 9
With 9M Motor
Mounting Base**



**Series 05-
Direct Drive
Page 10**

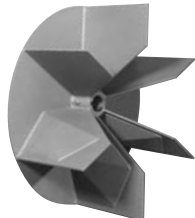


**Series 05F
Flange Mount
Page 11**



Type AH Air Wheel

Ideal for handling air and gasses at high pressure and can handle light dust loading. Blades are continuously welded to back plate and front plate, flat with a slight backward incline to improve performance and reduce noise, and reinforced as necessary. Standard hub is straight bore with set screws. Split taper bushing available.



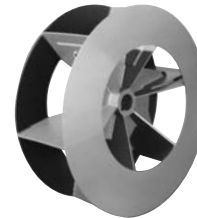
Type MH Open Wheel

Sturdy wheel designed for resistance to the impact of materials; tends to prevent material buildup. For dust, shavings, flake and granular materials. Radial blades welded to heavy gauge back plate. Standard hub is straight bore with set screws. Split taper bushing available.



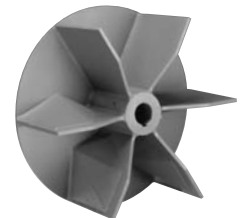
**Type PW Open
Paddle Wheel**

Designed for many air and material moving applications where abrasive particles, granular material, heavy dust or fumes are present in the air stream. Rugged, non-clogging radial blades welded to the hub. Blades have continuously welded reinforcement to reduce stress. Standard hub is straight bore with set screws. Split taper bushing available.



**Type PR Reinforced
Paddle Wheel**

Suited for handling particle-laden air, sawdust, granular material, and gases at higher pressures than the Type PW wheel. Back side and front side reinforcement are continuously welded to rugged, non-clogging radial blades with continuously welded reinforcement to reduce stress. Standard hub is straight bore with set screws. Split taper bushing available.






**Type TH Open
Trim Wheel**

Designed specifically to convey paper trimmings, cardstock trimmings, and other similar materials. Wheel design includes heavier blades and longer hub to withstand loads applied. Special fan inlet and Type TH wheel resist plugging from long continuous material operations. Standard hub is straight bore with set screws.



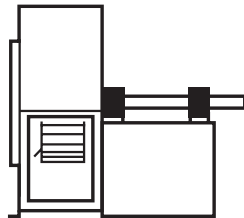
Hartzell Centrifugal Fan Classifications

Hartzell Series 05 Industrial Exhausters are designed and classified in low, medium, and high ranges of static pressures. The parameters are explained in the following table:*

Hartzell Industrial Exhauster Class	Performance Range		
	Maximum Static Pressure	Maximum Outlet Velocity	Maximum Tip Speed (FPM)
Class 2 	20"	6,740	16,000
Class 3 	30"	7,593	20,000
Class 4 	50"	7,593	24,500

* At standard air conditions (70°F., 29.92 in. HG barometric pressure, .075 lbs./ft.3).
Static pressure shown in inches of water; outlet velocity shown in feet per minute.

Centrifugal Fan Arrangements



Arrangement 1

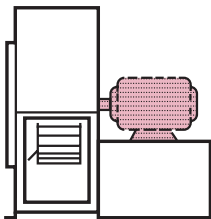
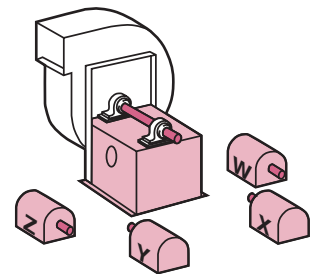
Unit furnished with shaft and bearings, less motor and drive. Designed to be driven by a separately mounted motor. Impeller is overhung – two bearings on base. Temperature limitations: Standard fan to 300°F, heat fan to 800°F.

Motor Position Designation

Motor position designation is necessary when ordering the following for Arrangement 1 fans –

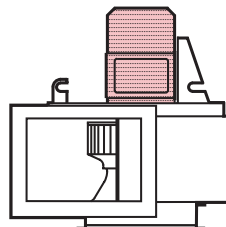
- 1 – V Belt Drive.
- 2 – Vibration Bases.
- 3 – Belt Guards.

Note: Location of motor is determined by facing the drive side of the fan and designating the motor position by letters W, X, Y, or Z.



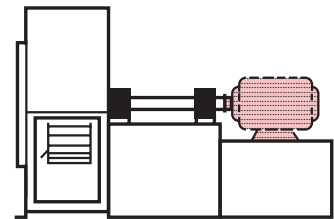
Arrangement 4

Direct drive packaged unit, wheel is overhung and attached to the shaft of the electric motor. No bearings on fan. Available with AH and MH Wheel Types only. Temperature limitations: Standard fan to 200°F.



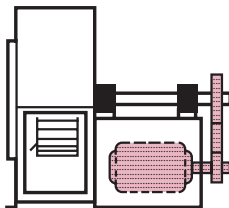
Arr. 4 Flange Mount

Direct drive unit for mounting on fan inlet flange, wheel is overhung and attached to the shaft of the electric motor. No bearings on fan. Temperature limitations: Standard fan to 200° F.



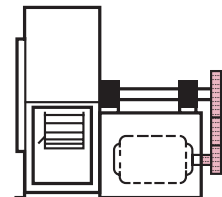
Arrangement 8

Direct Coupled configuration with motor mounted to common fan base. Impeller is overhung and supported by two bearings on fan base. Temperature Limitations: 800°F.



Arrangement 9

Belt drive configuration with motor mounted on outside of bearing base support. Packaged unit, wheel is overhung, slide rail motor base permits easy adjustment of belt tension. Available on either left or right hand side of base (when facing drive end of shaft). Temperature limitations: Standard fan to 300°F, heat fan to 800°F.



Arrangement 10

Belt drive configuration with motor mounted inside base. Packaged unit, wheel is overhung. Temperature limitations: Standard fan to 250°F, heat fan to 600°F.

Adapted from AMCA Standard 99-2404-03, *Drive Arrangements for Centrifugal Fans*, and AMCA Standard 99-2407-03, *Motor Positions for Belt or Chain Drive Centrifugal Fans*, with written permission from Air Movement and Control Association International, Inc.



Series 05 General Construction Features

The Hartzell Series 05 Industrial Exhausters are designed to meet industrial air moving and pneumatic conveying requirements. Heavy industrial duty construction – designed for heavyweight service with ruggedness, use, long life, reliability, and performance taken together.

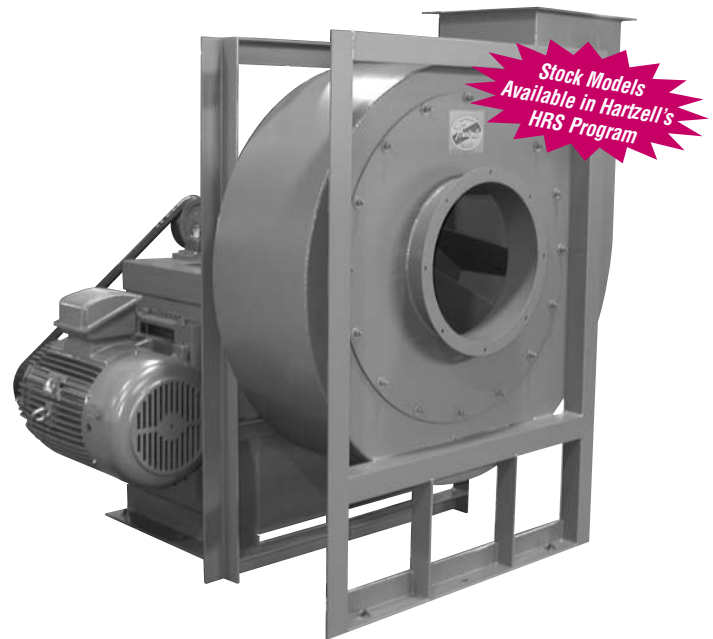
Applications – These versatile and dependable units are suited for material conveying, dust and fume removal, and handling of hot air and industrial gases. Standard construction operates to 300°F (except Arrangement 4). Construction is available for operation up to 800°F. (See Pages 6-7). These blowers are available in direct drive and belt drive configurations. Efficient airflow is provided at high pressure to flow ratios with lower sound levels than many other selections.

Performance and Efficiency – Series 05, Class 2 from 250 to 40,500 CFM, Static pressure to 20" water gauge. Class 3 from 1,725 to 45,625 CFM, S. P. to 30" W. G. Class 4 from 2,400 to 45,625 CFM, S. P. to 46" W.G. Total efficiencies to 72%. Operates smoothly from free air to near block off without pulsation or vibration.

Performance Ratings – Accurate and reliable air performance and sound power rating, in eight octave bands, in accordance with industry standards, tests, and procedures is available.

Features

- **Sizes** – Twelve available sizes from 12" through 57" wheel diameters, single width, single inlet construction (SWSI). Available in Class 2, 3, and 4, and narrow width construction.
- **Stock** – Many sizes of the Series 05 are available from stock.
- **Arrangements** – Available in Belt Drive Arrangements #1, #9, #9M, and #10, Direct Drive Arr. #4 and Direct Coupled Arr. #8. Contact Factory for others.
- **Rotation and Discharge Positions** – Available in both clockwise and counterclockwise rotations and in standard discharge positions. Housing discharge position can be changed on fan sizes 12" through 29". Size 33" through 57" are fixed position and are non-rotatable.
- **Standard Construction** – Housings and bases built of heavy gauge hot rolled steel are standard construction. Housings are continuously welded and bearing base/motor pedestal is constructed of hot rolled steel and structural steel. See material specification tables construction details.
- **Fan Inlets and Outlets** – Straight inlet and outlet connections are provided for easy "slip-fit" connection to ducting. Optional continuously welded flanges are available.
- **Wheel** – See page 3. Four non-clogging radial blades.
 - Type MH – 12" – 57"
 - Type TH – 12" – 57"
 - Type PW – 12" – 57"
 - Type PR – 29" – 57"An air-handling wheel is also available for high-pressure applications.
 - Type AH – 12" – 57"
- **Balancing** – Fans are electronically statically and dynamically balanced to the requirements of Fan Application Category BV-3 of AMCA ANSI Std. 204-96 and whenever possible receive Operational Test and Inspection prior to shipment.
- **Bearings** – Fan Bearings are heavy-duty, self-aligning, shielded and mechanically sealed, ball or roller type, in cast iron or malleable pillow block housings. Bearings are selected for minimum L-50 Life of 250,000 hours at maximum catalog speed, horsepower, and static pressure. Lubrication fittings are extended as standard for easy relubrication.
- **Shafts** – Shafts are turned, ground, polished, keyed at both ends, and sized to operate well below critical speed.



Series 05-
Shown with optional equipment

- **Drives** – V-Belt Drives are oversized for long life and continuous duty and are fixed pitch as standard option. Variable pitch drives are available upon request. Belts are oil, heat, and static resistant type.
- **Standard Finish** – Standard fans and accessories are pretreated and painted with blue industrial duty air dry enamel. Alternate coatings are available for high temperature and corrosive environments.
- **Motor Out of the Airstream** – Exterior motor mounting for easy electrical connection, adjustment of belts, and lubrication is standard. An adjustable motor slide base in belt drive models is standard. Motors can be furnished as TEFC, ODP, Mill and Chemical Duty, or to specifications upon request. Motor HP and frame size limits are identified in Dimensions and Material Specifications table.
- **Easy Installation and Maintenance** – Motor, drive and bearings are readily accessible for ease in wiring, installation, adjustment, and lubrication.
- **Easy System Access** – For easy access and servicing, access doors and swing-out construction is available.
- **High Temperature Fans and Systems** – Fan modifications are available to accommodate operating temperatures up to 800°F in most arrangements.
- **Spark Resistant Construction** – AMCA Type A, B, and C is available, membrane type shaft seal is standard with AMCA spark resistant construction. Explosion proof motors are also available.
- **Special Materials of Construction** – Alternate materials of construction; stainless steel, aluminum, fiberglass housing, and other materials are available upon request.
- **Your Special Features and Options** – Hartzell Fan has a wide range of designs, configurations, performances, sizes, materials, finishes, and motors in-stock and from production to fit your ventilation requirements. Accessories including: guards, companion flanges, dampers, louvers, inlet bells, sub-bases, vibration isolators, lifting lugs, leak resistant construction, and sound mufflers are available.



Temperature/Altitude Applications

When a fan operates in ambient conditions, generally it is handling standard air at 70°F., 29.92" barometric pressure, weighing 0.075-lbs./cu. ft. For an application where the fan operates at other than ambient conditions (temperature, altitude, or both), correction factors must be applied to the selection of the fan. In addition, the standard construction of the fan must be modified. The maximum safe operating temperature for each fan arrangement is shown on page 7. High temperature modifications are explained on page 7 and illustrated on pages 26-27.

Correction factors for temperatures and altitudes are provided in Table 1. When a fan operates at other than ambient conditions,

the correction factors in Table 1 will be required to correct static pressure and horsepower.

Table 2 shows the maximum safe operating speeds for each size fan wheel at each class of construction. At high temperatures, these maximum safe operating speeds should be derated. Deration varies according to the material of construction. Table 3 provides maximum safe speed correction factors by temperature and material construction.

An example on the use of these tables appears at the bottom of this page.

Rarefaction / Compression

When making selections for pressures greater than 15" W.G. at 0.075#/ft³ the effect of the fan pressure on the actual gas density and actual volume of cubic feet should be taken into account. The effects of rarefaction on actual gas density can be calculated

within Hartzell Fan's Electronic Support Package®, ESP. For a copy of Hartzell Fan's ESP, selection assistance, and additional data please contact your local Hartzell Sales Representative or visit our website at www.hartzellfan.com.

Table 1 Altitude/Temperature Correction Factors

Temp. (°F)	-25	0	25	50	70	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Factor	0.82	0.87	0.91	0.96	1.00	1.06	1.15	1.25	1.34	1.43	1.53	1.62	1.72	1.81	1.91	2.00	2.09	2.19	2.29	2.38

Alt.** (Ft.)	0	1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000
Factor	1.00	1.04	1.08	1.12	1.16	1.20	1.25	1.30	1.35	1.40	1.46	1.51	1.57

Above table has inverted values. Actual density is the reciprocal of the above values. *At sea level. **At 70°F. For corrections involving both temperature and altitude, correction factors should be multiplied. Example: 150°F at 7000 ft.: Temperature factor 1.15 x altitude factor 1.30 = 1.50 combined correction factor.

Table 2 Maximum Safe Speeds @ 70°F

Fan Size	Class 2	Class 3	Class 4
12	4,990	—	—
15	3,910	—	—
19	3,195	3,795	—
22	2,700	3,375	4,135
26	2,340	2,925	3,580
29	2,065	2,580	3,160
33	1,850	2,315	2,835
36	1,675	2,095	2,565
40	1,530	1,910	2,340
45	1,355	1,695	2,075
50	1,210	1,515	1,855
57	1,065	1,330	1,630

Table 3 Maximum Safe Speed Correction Factors*

Material Code	Spark Resistance	Material of Construction	Temperature °F								
			0°F	70°F	200°F	300°F	400°F	500°F	600°F	700°F	800°F
ST	None	Steel Wheel & Housing	1.000	1.000	1.000	0.966	0.930	0.890	0.860	0.820	0.770
AA	AMCA "A"	Aluminum Wheel, Aluminum Housing	0.966	0.948	0.837	0.733	—	—	—	—	—
AB	AMCA "B"	Aluminum Wheel, Steel Housing	0.966	0.948	0.837	0.733	—	—	—	—	—
AC	AMCA "C"	Steel Wheel & Housing Aluminum Buffer	1.000	1.000	1.000	0.966	0.930	0.890	0.860	0.820	0.770
CT	None	Corten Wheel, Steel Housing	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.960
S4	None	304SS Wheel & Housing	1.000	1.000	1.000	0.938	0.896	0.852	0.830	0.806	0.792
S6	None	316SS Wheel & Housing	1.000	1.000	1.000	0.987	0.950	0.913	0.894	0.876	0.861
4L	None	304LSS Wheel & Housing	1.000	1.000	1.000	0.938	0.896	0.852	0.830	0.806	0.792
6L	None	316LSS Wheel & Housing	1.000	1.000	1.000	0.987	0.950	0.913	0.894	0.876	0.861

*To correct maximum safe operating speeds (Table 2) for high temperatures, multiply those speeds by correction factors from Table 3.

Use of Correction Factors and Tables

First select size, RPM and BHP of the blower needed.

If temperature or altitude is involved, correct to standard air.

Example: Assume the required performance to be 6,000 CFM at 9.14" SP, 400°F and 2000 feet altitude.

1. Temperature factor 1.62 x altitude factor 1.08 = 1.75 combined correction factor.
2. Correct SP to standard 9.14" SP x 1.75 = 16.00" SP for 70°F at sea level.
3. A Series 05, size 29" class 2 belt drive Industrial Exhauster, selected from the rating tables (page 17) for the new condition shows 6,000 CFM at 16.00" SP, 1,825 RPM and 21.1 BHP.

4. Correct the horsepower and static pressure in item 3 to non-standard performance by dividing by factor: 16.00" SP divided by 1.75 = 9.14" SP; 21.1 BHP divided by 1.75 = 12.1 BHP.
5. Check the maximum safe speed. Maximum speed at 70°F for fan size 29, 1,825 RPM. Using the maximum safe speed factor table for steel construction yields a safe speed factor of .930. The maximum safe speed is 2,065 x .930 = 1,920 RPM; thus operation at 1,825 RPM at 400°F is satisfactory.
6. Final performance of the unit at the assumed conditions: 6,000 CFM at 9.14" SP, 1825 RPM, 12.1 BHP at 400°F and 2000 feet altitude.
7. Size motor for cold startups and use a special high altitude motor if altitude exceeds 3300 feet.



Material Specifications/Weight

Material Specifications – Gauge – All Sizes

Fan Size	Class	Housing Thickness					Wheel														Fan Weight Arr. 1
		Scroll Band & Sides	Flanges		Shaft Diameter		AH					MH/TH				PW/PR					
			Inlet	Outlet	AH/MH	PW/PR	Blade	Back Plate	Inlet Plate	WR2	Weight	Blade	Back Plate	WR2	Weight	Blade	Spider	Rim	WR2	Weight	
12	2	10 Ga.	7 Ga. x 1 1/2	10 Ga. x 1 1/2	1 3/16	1 3/16	12 Ga.	10 Ga.	12 Ga.	1.7	18	10 Ga.	7 Ga.	1.7	20	10 Ga.	7 Ga.	---	0.8	15	200
15		10 Ga.	7 Ga. x 1 1/2	10 Ga. x 1 1/2	1 11/16	1 11/16	7 Ga.	10 Ga.	10 Ga.	6.2	35	10 Ga.	7 Ga.	4.4	30	10 Ga.	7 Ga.	---	2.0	23	334
19		7 Ga.	7 Ga. x 1 1/2	7 Ga. x 1 1/2	1 11/16	1 11/16	7 Ga.	7 Ga.	10 Ga.	15	54	10 Ga.	7 Ga.	9.8	42	10 Ga.	7 Ga.	---	4.5	31	473
22		7 Ga.	1/4 x 1 1/2	7 Ga. x 1 1/2	1 15/16	1 15/16	7 Ga.	7 Ga.	10 Ga.	28	71	7 Ga.	1/4	26	73	7 Ga.	1/4	---	12	50	645
26		7 Ga.	1/4 x 1 1/2	7 Ga. x 1 1/2	1 15/16	1 15/16	7 Ga.	7 Ga.	7 Ga.	55	98	7 Ga.	1/4	46	97	7 Ga.	1/4	---	21	67	704
29		7 Ga.	1/4 x 1 1/2	7 Ga. x 1 1/2	2 1/16	2 1/16	1/4	7 Ga.	7 Ga.	101	139	7 Ga.	1/4	77	124	7 Ga.	1/4	---	35	83	913
33		1/4	1/4 x 1 1/2	7 Ga. x 1 1/2	2 1/16	2 1/16	1/4	1/4	7 Ga.	171	190	7 Ga.	3/8	139	183	7 Ga.	1/4	---	55	105	1260
36		1/4	1/4 x 1 1/2	7 Ga. x 1 1/2	2 1/16	2 3/16	1/4	1/4	1/4	279	244	7 Ga.	3/8	208	222	7 Ga.	1/4	---	80	124	1450
40		1/4	1/4 x 2	7 Ga. x 2	2 1/16	2 1/16	1/4	1/4	1/4	401	294	1/4	3/8	301	268	1/4	1/4	---	141	178	1810
45		1/4	1/4 x 2	7 Ga. x 2	2 11/16	2 11/16	1/4	3/8	1/4	650	373	1/4	1/2	486	337	1/4	1/4	---	229	221	2590
50		1/4	1/4 x 2	7 Ga. x 2	2 15/16	2 15/16	1/4	3/8	1/4	1020	489	1/4	1/2	763	425	1/4	1/4	---	358	279	3550
57		1/4	1/4 x 2	7 Ga. x 2	3 3/16	3 3/16	3/8	1/2	3/8	2571	882	1/4	1/2	1281	544	1/4	1/4	---	600	348	4410
19	3	7 Ga.	7 Ga. x 1 1/2	7 Ga. x 1 1/2	2 3/16	2 3/16	1/4	7 Ga.	7 Ga.	19	67	7 Ga.	1/4	14	71	7 Ga.	7 Ga.	---	6.2	39	521
22		7 Ga.	1/4 x 1 1/2	7 Ga. x 1 1/2	2 3/16	2 1/16	1/4	7 Ga.	7 Ga.	35	91	1/4	3/8	39	107	7 Ga.	1/4	---	12	59	705
26		7 Ga.	1/4 x 1 1/2	7 Ga. x 1 1/2	2 1/16	2 1/16	1/4	1/4	1/4	68	120	1/4	3/8	67	142	1/4	1/4	---	26	62	754
29		7 Ga.	1/4 x 1 1/2	7 Ga. x 1 1/2	2 1/16	2 1/16	1/4	1/4	1/4	121	167	1/4	3/8	111	184	1/4	1/4	---	42	107	974
33		1/4	1/4 x 1 1/2	7 Ga. x 1 1/2	2 11/16	2 11/16	1/4	1/4	1/4	186	203	3/8	3/8	206	269	1/4	1/4	---	66	129	1360
36		1/4	1/4 x 1 1/2	7 Ga. x 1 1/2	2 11/16	2 11/16	3/8	3/8	1/4	330	292	3/8	3/8	320	326	1/4	3/8	---	106	268	1780
40		1/4	1/4 x 2	7 Ga. x 2	2 15/16	2 15/16	3/8	3/8	1/4	475	353	3/8	1/2	447	391	1/4	3/8	---	156	206	1940
45		1/4	1/4 x 2	7 Ga. x 2	3 1/16	3 1/16	3/8	1/2	1/4	773	466	3/8	1/2	722	492	1/4	3/8	---	249	261	2890
50	1/4	1/4 x 2	7 Ga. x 2	3 11/16	3 11/16	1/4	1/2	3/8	1618	746	3/8	1/2	1130	617	1/4	3/8	---	389	318	3840	
57	1/4	1/4 x 2	7 Ga. x 2	3 15/16	3 15/16	1/4	1/2	3/8	2718	972	3/8	1/2	1897	790	1/4	3/8	---	652	405	4750	
22	4	7 Ga.	1/4 x 1 1/2	7 Ga. x 1 1/2	2 3/16	2 3/16	10 Ga.	7 Ga.	7 Ga.	35	89	1/4	3/8	46	126	7 Ga.	1/4	---	13	57	707
26		7 Ga.	1/4 x 1 1/2	7 Ga. x 1 1/2	2 1/16	2 11/16	7 Ga.	1/4	1/4	73	134	1/4	3/8	79	168	1/4	1/4	---	28	88	766
29		7 Ga.	1/4 x 1 1/2	7 Ga. x 1 1/2	2 11/16	2 11/16	7 Ga.	1/4	1/4	129	184	1/4	3/8	131	217	1/4	1/4	1/4	111	181	1010
33		1/4	1/4 x 1 1/2	7 Ga. x 1 1/2	2 15/16	2 15/16	1/4	1/4	1/4	217	246	3/8	3/8	243	317	1/4	1/4	1/4	169	217	1390
36		1/4	1/4 x 1 1/2	7 Ga. x 1 1/2	2 15/16	3 1/16	1/4	3/8	3/8	379	335	3/8	1/2	378	384	1/4	3/8	1/4	260	278	1810
40		1/4	1/4 x 2	7 Ga. x 2	3 1/16	3 1/16	1/4	3/8	3/8	548	403	3/8	1/2	527	461	1/4	3/8	1/4	377	335	2040
45		1/4	1/4 x 2	7 Ga. x 2	3 11/16	3 11/16	1/4	1/2	3/8	986	569	3/8	1/2	852	581	1/4	3/8	1/4	608	419	2810
50		1/4	1/4 x 2	7 Ga. x 2	3 15/16	4 3/16	1/4	1/2	3/8	1689	773	3/8	1/2	1333	728	1/4	3/8	1/4	950	522	3870
57	1/4	1/4 x 2	7 Ga. x 2	4 1/16	4 7/16	1/4	1/2	3/8	2853	989	3/8	1/2	2238	932	1/4	3/8	1/4	1594	659	4820	

Note: Inlet and outlet flanges are optional, with or without holes. Fan weight is approximate. TH wheel weight and WR2 values increase by approximately 17%. Dimensions and specifications are subject to change. Certified prints are available.

Arrangement & Accessory Maximum Temperatures*

Description	Maximum Temperature
Arrangement 1, 8, & 9	800° F
Arrangement 3	150° F
Arrangement 4	200° F
Arrangement 10	600° F
Aluminum Spark Resistant Construction	350° F
Weather Cover Arrangement 9	500° F
Arrangement 9M, Weather Cover Arrangement 10	250° F

*Use in conjunction with High Temperature Modifications table.

High Temperature Modifications**

Maximum Design Temperature	High Temperature Modifications Required
70 - 300° F	Standard Construction, none required.
301 - 600° F	Heat Slinger (must be supplied with heat slinger guard or shaft guard), high temperature shaft seal, high temperature paint, special bearing lubricant, fiberglass gasket material, motor heat shield on arrangement 9 or 10.
601 - 800° F	In addition to above, bearing heat shield.
801 - 1000° F	Contact Factory

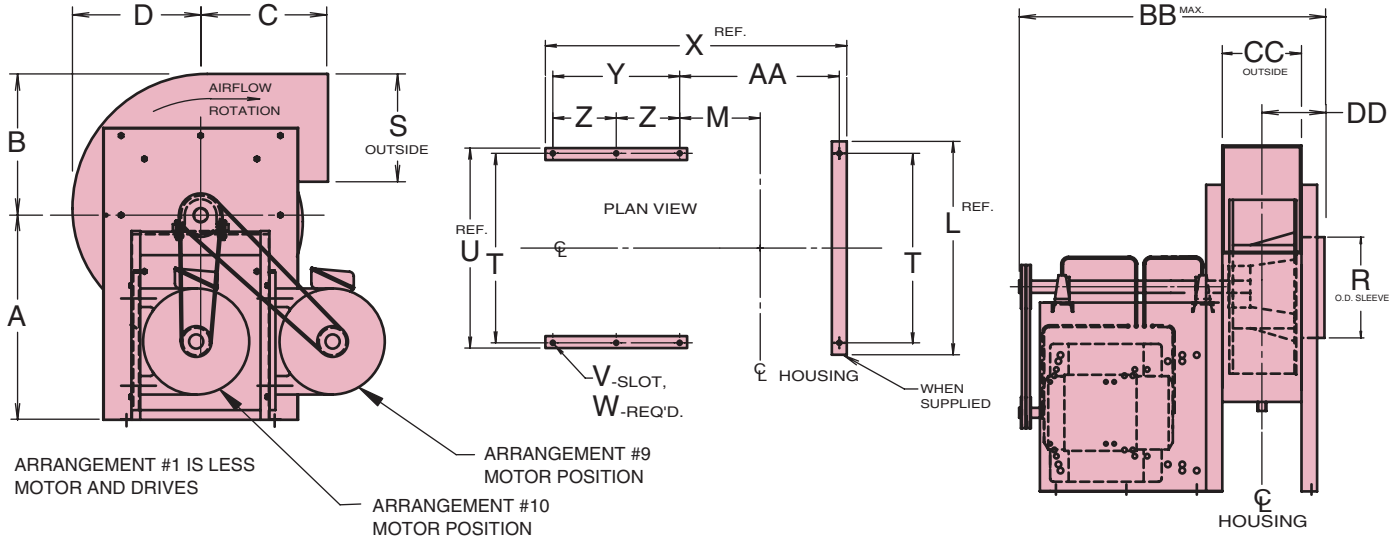
**Use in conjunction with Arrangement & Accessory Maximum Temperatures table.

NOTE: High temperature applications require air density calculation, fan accessory items and adjustment of Maximum Safe Speed. See pages 6, 26 and 27..



Dimensions Series 05- Arrangements 1, 9, or 10

Sizes 12 Through 29 – Standard Construction Classes 2, 3, 4, Maximum Temperature 800°F, with proper modifications. Rotatable Housing, Clockwise Rotation Shown. Counterclockwise Opposite.



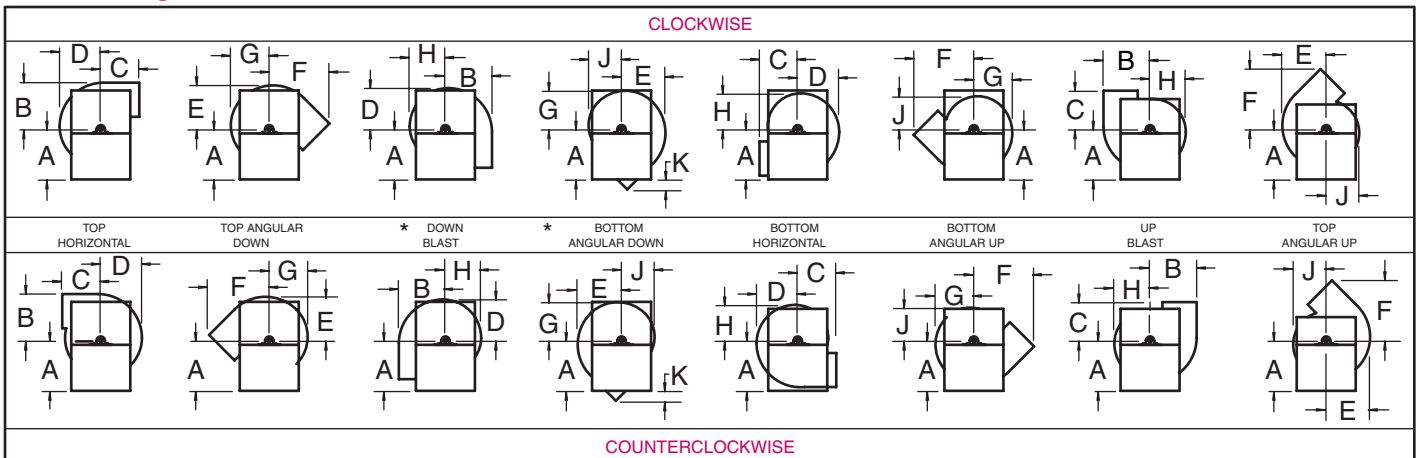
Principal Dimensions (Inches) – Sizes 12" - 29"

Fan Size	A	B	C	D	E	F	G	H	J	K	L	M	R	S
12	18 ¹ / ₂	11 ⁵ / ₈	14 ¹ / ₄	10 ³ / ₈	10 ¹⁵ / ₁₆	18 ⁵ / ₁₆	9 ³ / ₄	9 ⁹ / ₁₆	8 ¹ / ₂	--	18 ³ / ₄	5 ¹ / ₂	7	7 ¹ / ₈
15	21 ¹ / ₂	14 ³ / ₄	16 ⁵ / ₈	13 ³ / ₁₆	13 ¹⁵ / ₁₆	22 ³ / ₁₆	12 ³ / ₈	11 ¹¹ / ₁₆	10 ¹³ / ₁₆	11 ¹ / ₁₆	20 ³ / ₄	6 ⁵ / ₁₆	9	9
19	24 ¹ / ₄	18 ¹ / ₁₆	18 ⁷ / ₈	16 ³ / ₁₆	17 ¹ / ₁₆	26 ⁷ / ₈	15 ³ / ₁₆	14 ¹ / ₄	13 ¹ / ₄	1 7/8	27 ³ / ₄	8 ³ / ₄	11	11
22	30	21 ⁵ / ₁₆	22	19 ⁹ / ₁₆	20 ¹ / ₈	30 ⁵ / ₈	17 ⁷ / ₈	16 ⁷ / ₈	15 ⁵ / ₈	5/8	28 ¹ / ₈	7 ¹⁵ / ₁₆	13	12 ¹⁵ / ₁₆
26	33 ¹⁵ / ₁₆	24 ⁹ / ₁₆	23 ³ / ₈	22	23 ³ / ₄	34 ¹ / ₈	20 ⁵ / ₈	19 ⁷ / ₁₆	18 ¹ / ₁₆	3/16	30	8 ¹³ / ₁₆	15	14 ⁷ / ₈
29	37	27 ⁷ / ₈	27 ¹ / ₂	24 ¹⁵ / ₁₆	26 ⁵ / ₁₆	39 ¹ / ₈	23 ³ / ₈	22	20 ⁷ / ₁₆	2 ¹ / ₈	38 ³ / ₈	12 ³ / ₈	17	16 ⁵ / ₈

Fan Size	T	U	V	W	X	Y	Z	AA	BB	CC	DD	Max Motor Frame
12	16 ¹ / ₄	18 ¹ / ₄	11 ¹ / ₁₆ x 1 ¹ / ₁₆	6	24 ³ / ₄	12 ³ / ₄	--	9 ³ / ₄	30 ³ / ₄	6 ³ / ₁₆	7 ³ / ₁₆	184T
15	18 ¹ / ₄	20 ¹ / ₄	11 ¹ / ₁₆ x 1 ¹ / ₁₆	6	29 ³ / ₈	15 ³ / ₄	--	11 ³ / ₈	35 ⁷ / ₈	7 ¹³ / ₁₆	8	215T
19	25 ³ / ₈	27 ¹ / ₄	11 ¹ / ₁₆ x 1 ¹ / ₁₆	8	35 ¹¹ / ₁₆	18 ³ / ₄	9 ³ / ₈	14 ¹¹ / ₁₆	42 ¹¹ / ₁₆	9 ⁹ / ₁₆	8 ⁷ / ₈	256T
22	25 ³ / ₈	27 ³ / ₈	11 ¹ / ₁₆ x 1 ¹ / ₁₆	8	37 ¹ / ₄	20 ¹ / ₄	10 ⁷ / ₈	14 ³ / ₄	45 ³ / ₄	11 ¹ / ₄	9 ³ / ₄	256T
26	25 ³ / ₈	27 ³ / ₈	11 ¹ / ₁₆ x 1 ¹ / ₁₆	8	41 ³ / ₁₆	22 ¹ / ₂	11 ¹ / ₄	16 ⁷ / ₁₆	50 ¹¹ / ₁₆	12 ¹⁵ / ₁₆	10 ⁹ / ₁₆	286T
29	33 ³ / ₄	38	13 ¹ / ₁₆ x 1 ¹ / ₄	9	47 ³ / ₈	22 ³ / ₄	11 ³ / ₈	21 ¹ / ₈	55 ³ / ₈	14 ⁷ / ₁₆	11 ⁷ / ₁₆	286T

NOTE: Dimensions and specifications are subject to change. Certified prints are available.

Fan Discharges

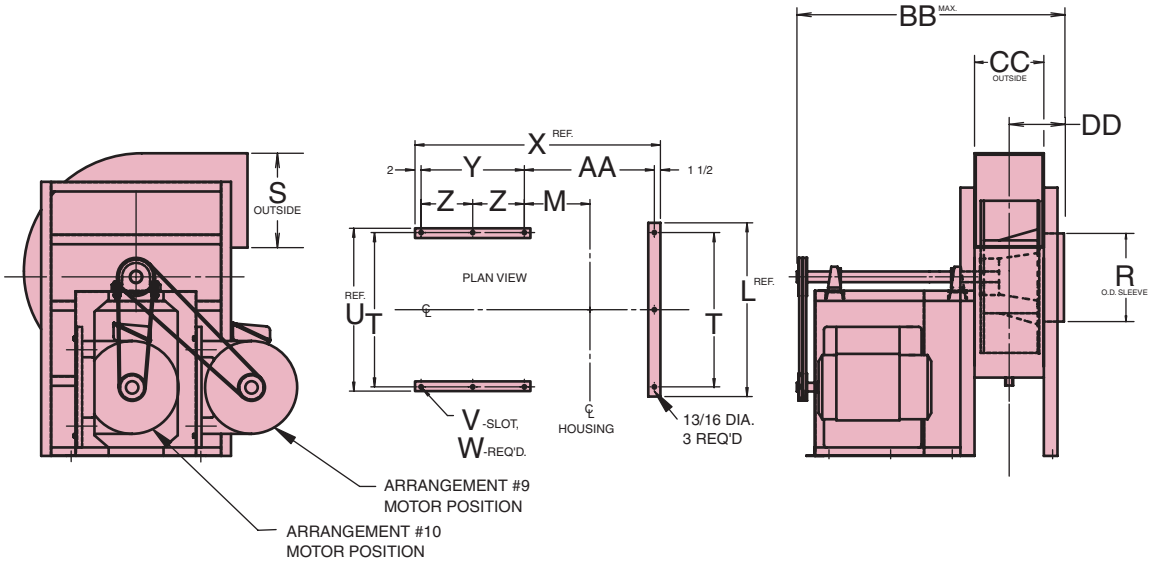


NOTE: For bottom angular down and/or down blast, contact factory when discharge flanges are required.



Dimensions Series 05- Arrangements 1, 9, or 10

Sizes 33 Through 57 – Standard Construction Classes 2, 3, 4, Maximum Temperature 800°F, with proper modifications. Fixed Housing, Clockwise Rotation Shown. Counterclockwise Opposite.



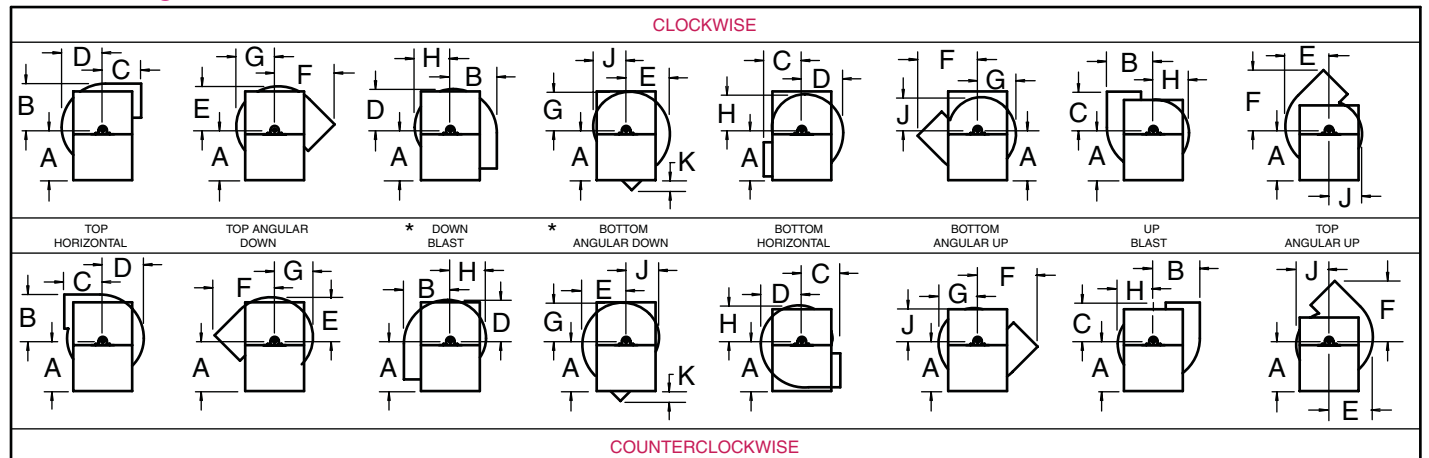
Principal Dimensions (Inches) – Sizes 33" - 57"

Fan Size	A	B	C	D	E	F	G	H	J	K	L	M	R	S
33	40	31	30	27 ³ / ₄	29 ³ / ₈	43 ¹ / ₄	26 ¹ / ₈	24 ¹ / ₂	22 ⁷ / ₈	3 ¹ / ₄	47 ¹ / ₄	13 ¹ / ₈	18 ¹⁵ / ₁₆	18 ⁵ / ₈
36	42	34 ¹ / ₄	30	30 ⁵ / ₈	32 ⁷ / ₁₆	45 ¹ / ₂	28 ¹³ / ₁₆	27 ¹ / ₁₆	25 ¹ / ₄	3 ¹ / ₂	50 ³ / ₄	13 ¹⁵ / ₁₆	20 ¹⁵ / ₁₆	20 ⁹ / ₁₆
40	47	37 ¹ / ₂	33	33 ⁹ / ₁₆	35 ⁹ / ₁₆	49 ¹⁵ / ₁₆	31 ⁹ / ₁₆	29 ⁹ / ₁₆	27 ⁵ / ₈	2 ¹⁵ / ₁₆	55 ¹ / ₄	14 ³ / ₄	22 ¹⁵ / ₁₆	22 ¹ / ₂
45	51 ¹ / ₄	42 ¹ / ₄	36 ³ / ₄	37 ¹³ / ₁₆	40 ¹ / ₁₆	56	35 ⁵ / ₈	33 ³ / ₈	31 ¹ / ₈	4 ³ / ₄	59 ⁹ / ₈	16	25 ⁷ / ₈	25 ⁵ / ₁₆
50	56	47 ¹ / ₄	41 ¹ / ₈	42 ⁵ / ₁₆	44 ¹³ / ₁₆	62 ⁵ / ₈	39 ¹³ / ₁₆	37 ¹ / ₄	34 ¹³ / ₁₆	6 ⁵ / ₈	64 ¹ / ₂	17 ¹ / ₄	29	28 ¹ / ₄
57	56 ¹ / ₂	53 ¹³ / ₁₆	44 ¹ / ₈	48 ¹ / ₈	51	69 ⁹ / ₁₆	45 ⁵ / ₁₆	42 ⁷ / ₁₆	39 ⁵ / ₈	13 ¹ / ₁₆	71 ¹ / ₂	18 ¹⁵ / ₁₆	33	32 ¹ / ₈

Fan Size	T	U	V	W	X	Y	Z	AA	BB	CC	DD	Max Motor Frame
33	33 ³ / ₄	38	13 ¹ / ₁₆ x 1 ¹ / ₄	6	51 ¹⁵ / ₁₆	25 ³ / ₄	12 ⁷ / ₈	22 ¹¹ / ₁₆	60 ⁷ / ₁₆	16 ³ / ₁₆	12 ¹ / ₈	326T
36	33 ³ / ₄	38	13 ¹ / ₁₆ x 1 ¹ / ₄	6	53 ⁹ / ₈	25 ³ / ₄	12 ⁷ / ₈	24 ³ / ₈	63 ³ / ₁₆	17 ¹³ / ₁₆	12 ¹⁵ / ₁₆	326T
40	44	48	13 ¹ / ₁₆ x 1 ¹ / ₄	6	57 ¹ / ₄	27 ³ / ₄	13 ⁷ / ₈	26	66 ³ / ₄	19 ¹ / ₂	13 ³ / ₄	364T
45	44	48	13 ¹ / ₁₆ x 1 ¹ / ₄	6	59 ¹¹ / ₁₆	27 ³ / ₄	13 ⁷ / ₈	28 ⁷ / ₁₆	70 ³ / ₁₆	21 ¹⁵ / ₁₆	15	365T
50	44	48	13 ¹ / ₁₆ x 1 ¹ / ₄	6	62 ¹ / ₄	27 ³ / ₄	13 ⁷ / ₈	31	73 ³ / ₄	24 ¹ / ₂	16 ¹ / ₄	365T
57	45	50	13 ¹ / ₁₆ x 1 ¹ / ₄	6	70 ⁹ / ₁₆	32 ³ / ₄	16 ³ / ₈	34 ³ / ₁₆	83 ³ / ₁₆	27 ¹³ / ₁₆	17 ¹⁵ / ₁₆	405T

NOTE: Dimensions and specifications are subject to change. Certified prints are available.

Fan Discharges



NOTE: For bottom angular down and/or down blast, contact factory when discharge flanges are required.



Series 05-, Direct Drive Centrifugal Arrangement 4



Series 05

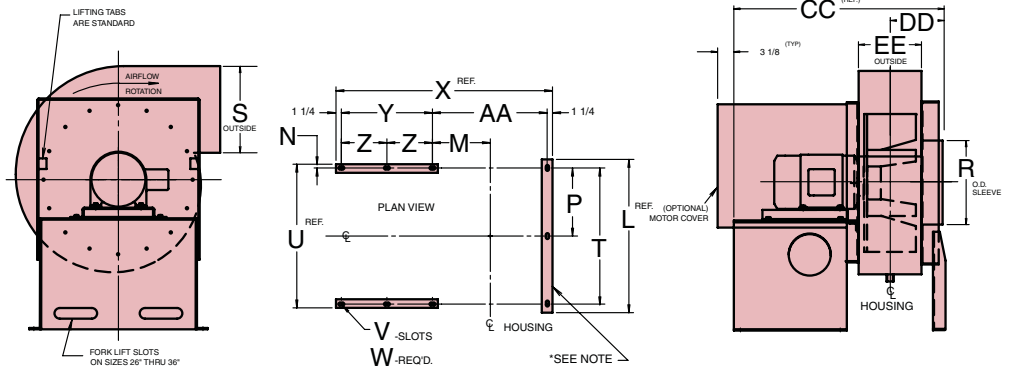
Arrangement 4 Construction
Shown with Optional Equipment

ABS Certificate
of Design Assessment
Received



Hartzell Fan, Inc. certifies that the Series 05, with the Air Wheel, (Type AH), Open Wheel, (Type MH), and Open Paddle Wheel, (Type PW), shown on pages 5 through 24 are licensed to bear the AMCA Seal for Air Performance. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

- Applications** – Compact direct drive fan for applications at higher pressures requiring performance from **800 CFM, (or lower with narrow width construction,) to 19,000 CFM** and pressures to **42" SP** at temperatures not exceeding 200°F. These versatile and dependable units are suited for material conveying, dust and fume removal, and handling of industrial gases. Efficient airflow is provided at high pressure to flow ratios with lower sound levels than many other selections. Available in **sizes 12" to 36"**, in clockwise or counterclockwise rotations, and in all standard discharge positions. Housing discharge position can be changed on all sizes.
- Standard Construction** – Motor pedestal and continuously welded housings built of heavy gauge hot rolled steel with blue industrial duty enamel finish are standard construction.
- Wheels** – Three types of wheels are available. Type AH – Air handling wheel for light dust loading. Type MH – Material handling wheel for materials conveying. Type TH – Trim handling wheel for trim and long materials. See page 3 for additional information on wheel types. Fans are electronically statically and dynamically balanced to the requirements of Fan Application Category BV-3 of AMCA ANSI Std. 204-96 and whenever possible receive Operational test and inspection prior to shipment.
- Motor Out of the Airstream** – Exterior motor mounting for easy electrical connection and lubrication of motor is standard. Motors can be furnished as Dripproof Protected, TEFC, Mill and Chemical Duty, or to specifications upon request.
- Fan Inlets and Outlets** – Straight inlet and outlet connections are standard. Optional continuously welded flanges are available. Flange bolt holes are optional.
- Special Features and Options** – Accessories including guards, companion flanges, dampers, louvers, inlet bells, sub-bases, vibration isolators, lifting lugs, special coatings, spark resistant Construction, leak resistant construction, and sound mufflers are available. See pages 26 and 27.



Principal Dimensions Series 05- Arrangement 4

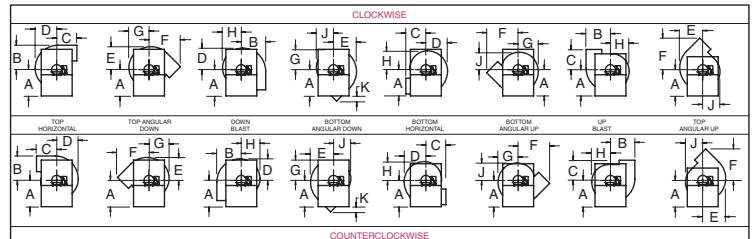
Principal Dimensions (Inches) – Sizes 12" - 36"

Fan Size	A	B	C	D	L	M	R	T	U	V	W	X	Y
12	16	11 ⁵ / ₈	14 ¹ / ₄	10 ³ / ₈	*21 ¹ / ₄	6 ³ / ₄	7	18 ¹ / ₄	19 ¹ / ₂	9/16 X 1 ¹ / ₁₆	*6	*25 ¹ / ₄	9 ¹ / ₂
15	18 ³ / ₄	14 ³ / ₄	16 ⁵ / ₈	13 ³ / ₁₆	*24 ¹ / ₂	7 ⁹ / ₁₆	9	21 ¹ / ₂	22 ³ / ₄	9/16 X 1 ¹ / ₁₆	*6	*33 ¹ / ₁₆	16 ¹ / ₂
19	22	18	18 ⁷ / ₈	16 ¹ / ₈	27 ³ / ₄	8 ⁷ / ₁₆	11	24 ³ / ₄	26	9/16 X 1 ¹ / ₁₆	6	38 ¹ / ₁₆	19
22	26 ³ / ₄	21 ⁹ / ₁₆	22	19 ¹ / ₁₆	32	9 ⁹ / ₁₆	13	29	30 ¹ / ₄	9/16 X 1 ¹ / ₁₆	7	39 ¹³ / ₁₆	19
26	28 ¹ / ₂	24 ⁹ / ₁₆	23 ⁵ / ₈	22	35 ³ / ₄	10 ¹ / ₈	15	31 ³ / ₄	33 ¹ / ₂	1 ¹ / ₁₆ X 1 ³ / ₁₆	7	41 ¹ / ₂	19
29	34 ³ / ₄	27 ⁷ / ₈	27 ¹ / ₂	24 ¹⁵ / ₁₆	41 ³ / ₄	11 ¹ / ₈	17	37 ³ / ₄	39 ¹ / ₂	1 ¹ / ₁₆ X 1 ³ / ₁₆	9	45 ³ / ₄	21 ¹ / ₂
33	38	31 ¹ / ₈	30	27 ⁷ / ₈	45 ¹ / ₄	11 ¹⁵ / ₁₆	18 ¹⁵ / ₁₆	41 ¹ / ₄	43	1 ¹ / ₁₆ X 1 ³ / ₁₆	9	49 ³ / ₄	23 ³ / ₄
36	38	34 ³ / ₈	30	30 ³ / ₄	45 ¹ / ₄	12 ¹³ / ₁₆	20 ¹⁵ / ₁₆	41 ¹ / ₄	43	1 ¹ / ₁₆ X 1 ³ / ₁₆	9	51 ⁷ / ₁₆	23 ³ / ₄

NOTE: Dimensions and specifications are subject to change. Certified prints are available.

Fan Size	AA	CC	DD	EE	Motor Frame	
					Minimum	Maximum
12	*13 ¹ / ₄	23 ³ / ₄	7 ¹ / ₄	6 ¹ / ₈	56	184T
15	*14 ¹³ / ₁₆	33 ⁹ / ₁₆	8	7 ¹¹ / ₁₆	143T	256T
19	16 ⁹ / ₁₆	37 ⁹ / ₁₆	8 ⁷ / ₈	9 ⁷ / ₁₆	143T	286T
22	18 ⁹ / ₁₆	39 ⁹ / ₁₆	9 ¹ / ₄	11 ¹ / ₈	213T	286T
26	20	40 ⁹ / ₁₆	10 ⁹ / ₁₆	12 ³ / ₄	213T	286T
29	21 ³ / ₄	45 ¹ / ₄	11 ³ / ₈	14 ⁷ / ₁₆	254T	326T
33	23 ¹ / ₂	49 ¹ / ₄	12 ⁵ / ₁₆	16 ³ / ₁₆	254T	365T
36	25 ³ / ₁₆	50 ¹⁵ / ₁₆	13 ¹ / ₈	17 ⁷ / ₈	254T	365T

Fan Discharges



NOTE: Maximum Temp. 200°F. Rotatable Housing, Clockwise Rotation Shown. Counterclockwise Opposite. Dimensions and specifications are subject to change. Certified prints are available. Inlet support leg is optional on sizes 12 and 15. For bottom angular down and/or down blast, contact factory when discharge flanges are required.



Series 05F – Flange Mounted Industrial Exhauster



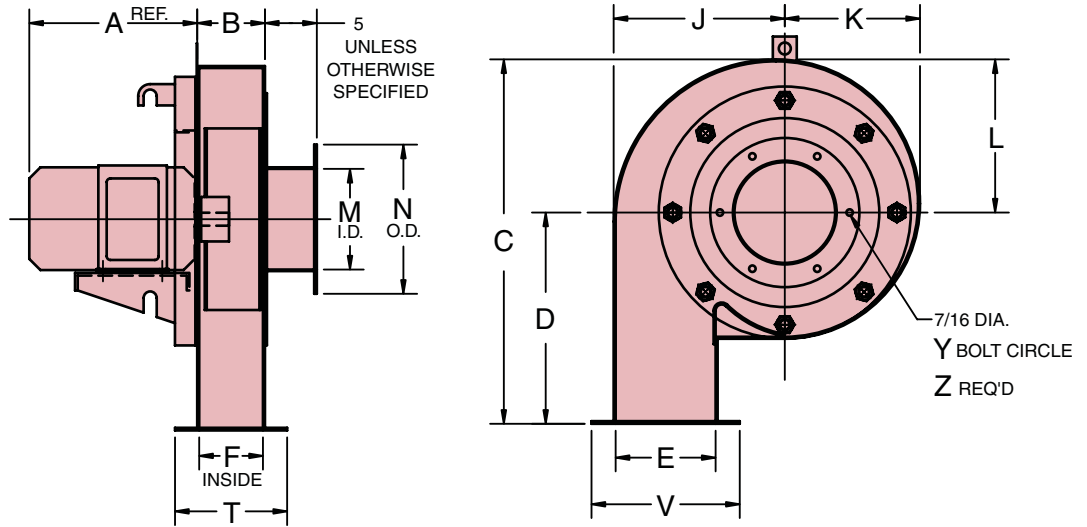
Series 05F



Hartzell Fan, Inc. certifies that the Series 05F shown on pages 5 through 12 are licensed to bear the AMCA Seal for Air Performance. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

ABS Certificate of Design Assessment Received

Principal Dimensions Series 05F – Arrangement 4



Principal Dimensions (Inches) – Sizes 12" - 36"

Fan Size	A	B	C	D	E	F	J	K	L	M	N	T	V	Y	Z	Motor Frame	
																Minimum	Maximum
12	13 ¹ / ₁₆	6 ¹ / ₁₆	20 ¹³ / ₁₆	10 ¹ / ₂	6 ³ / ₄	5 ¹³ / ₁₆	11 ⁹ / ₁₆	9 ¹ / ₈	10 ⁵ / ₁₆	6 ¹³ / ₁₆	10 ¹ / ₁₆	9 ¹ / ₈	10	8 ³ / ₄	6	56	184T
15	20 ³ / ₄	7 ¹¹ / ₁₆	25 ¹⁵ / ₁₆	12 ¹³ / ₁₆	8 ⁵ / ₈	7 ⁷ / ₁₆	14 ¹¹ / ₁₆	11 ¹⁹ / ₃₂	13 ¹ / ₈	8 ³ / ₄	12 ¹ / ₁₆	10 ¹¹ / ₁₆	11 ⁷ / ₈	10 ³ / ₄	6	143T	256T
19	23 ¹ / ₁₆	9 ⁷ / ₁₆	31 ³ / ₈	15 ¹ / ₄	10 ¹ / ₂	9 ¹ / ₁₆	18	14 ⁷ / ₃₂	16 ¹ / ₈	10 ³ / ₄	14 ¹ / ₁₆	12 ¹ / ₂	13 ⁷ / ₈	12 ³ / ₄	6	143T	286T
22	23 ¹ / ₁₆	11 ¹ / ₈	36 ¹¹ / ₁₆	17 ¹¹ / ₁₆	12 ⁷ / ₁₆	10 ³ / ₄	21 ¹ / ₄	16 ²⁵ / ₃₂	19	12 ³ / ₄	16 ¹ / ₁₆	14 ¹ / ₈	15 ¹³ / ₁₆	14 ³ / ₄	6	213T	286T
26	26 ¹ / ₁₆	12 ³ / ₄	42	20 ¹ / ₁₆	14 ³ / ₈	12 ⁷ / ₁₆	24 ¹ / ₂	19 ¹¹ / ₃₂	21 ¹⁵ / ₁₆	14 ³ / ₄	18 ¹ / ₁₆	15 ¹³ / ₁₆	17 ³ / ₄	16 ³ / ₄	6	213T	286T
29	25 ⁷ / ₁₆	14 ⁷ / ₁₆	47 ⁵ / ₁₆	22 ⁷ / ₁₆	16 ⁵ / ₁₆	14 ¹ / ₁₆	27 ³ / ₄	21 ²⁹ / ₃₂	24 ⁷ / ₈	16 ⁵ / ₈	20 ¹ / ₁₆	17 ⁷ / ₁₆	19 ¹¹ / ₁₆	18 ³ / ₄	8	254T	326T
33	27 ¹³ / ₁₆	16 ³ / ₁₆	52 ⁹ / ₁₆	24 ¹³ / ₁₆	18 ³ / ₁₆	15 ¹¹ / ₁₆	31	24 ¹⁵ / ₃₂	27 ³ / ₄	18 ⁹ / ₁₆	22	19 ³ / ₁₆	21 ¹¹ / ₁₆	20 ³ / ₄	8	254T	365T

NOTE: Clockwise rotation shown. Counterclockwise rotation opposite. For vertical, inlet down, installation only. For horizontal installation contact factory. Dimensions and specifications are subject to change. Certified prints are available.



Rating Table – Direct or Coupled Drive

Series 05 & Series 05F Industrial Exhauster (Direct Drive, Wheel Type AH)

Class II

Class III

Class IV

Size	Model	Class	Motor		Peak Fan BHP	Cubic Feet Per Minute vs. Static Pressure													Outlet Area sq. ft.	Wheel Diameter Inches						
			HP	RPM		1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	12"	14"	16"			18"					
12	A05-4-122AH100___F3	2	1/2	1750	0.47	800	534																		0.27	12 1/4
12	A05-4-122AH100___L2	2	5	3450	3.62	1907	1792	1680	1565	1444	1318	1179	1011	809											0.27	12 1/4
15	A05-4-152AH100___J3	2	1 1/2	1750	1.60	1841	1549	1215	653																0.44	15 1/8
15	A05-4-152AH100___O2	2	15	3450	14.2					3469	3323	3172	3018	2859	2695	2325	1852								0.44	15 1/8
19	A05-4-192AH100___L3	2	5	1750	4.14	3832	3467	3088	2674	2205	1516														0.67	19 1/8
22	A05-4-222AH100___N3	2	10	1750	9.42	6483	6082	5634	5135	4667	4172	3515	2428												0.93	22 1/8
26	A05-4-262AH100___P3	2	20	1750	19.3		9680	9200	8673	8097	7542	7006	6423	5686	4769										1.24	26 1/8
29	A05-4-292AH100___N4	2	10	1160	9.95	9689	8822	7870	7009	6041	4716														1.60	29 1/8
29	A05-4-292AH100___R3	2	30	1750	34.2						12348	11775	11210	10635	10032	8651	6734								1.60	29 1/8
33	A05-4-332AH100___O4	2	15	1160	17.1		12714	11597	10613	9651	8590	7277	5352												1.98	33
33	A05-4-332AH100___U3	2	60	1750	58.6									15447	14145	12692	10906	8457							1.98	33
36	A05-4-362AH100___R4	2	30	1160	28.2	18609	17660	16544	15310	14249	13187	12047	10730	9036	6291										2.42	36 1/8
40	A05-8-402AH100___S4	2	40	1160	44.7			22565	21225	19918	18760	17601	16382	15037	13477	8341									2.91	40
45	A05-8-452AH100___W4	2	100	1160	81.6						29082	27760	26462	25149	23776	20676	16465								3.70	45 1/8
50	A05-8-502AH100___Y4	2	150	1160	143											34141	30875	26986	21750						4.64	50 1/2
57	A05-8-572AH100___X5	2	125	870	116					46344	43951	41737	39520	37211	34735	28703	17945								6.01	57 1/2

Size	Model	Class	Motor		Peak Fan BHP	Cubic Feet Per Minute vs. Static Pressure													Outlet Area sq. ft.	Wheel Diameter Inches						
			HP	RPM		16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"			42"					
19	A05-4-193AH100___R2	3	30	3450	31.7	5170	4708	4191	3552	2625															0.67	19 1/8
22	A05-4-224AH100___V2	4	75	3450	72.2						7362	6617	5650	3240											0.93	22 1/8
26	A05-4-264AH100___Y2	4	150	3450	148												9862	8698	6525						1.24	26 1/8
36	A05-4-363AH100___W3	3	100	1750	97.0	18119	16385	14246	11479																2.42	36 1/2
57	A05-8-573AH100___B4	3	300	1160	274			45875	41615	36351	29702														6.01	57 1/2

Series 05 & Series 05F Industrial Exhauster (Direct Drive, Wheel Type MH)

Size	Model	Class	Motor		Peak Fan BHP	Cubic Feet Per Minute vs. Static Pressure													Outlet Area sq. ft.	Wheel Diameter Inches						
			HP	RPM		1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	12"	14"	16"			18"					
12	A05-4-122MH100___G3	2	3/4	1750	0.61	840	484																		0.273	12 1/4
12	A05-4-122MH100___L2	2	5	3450	4.70	2011	1896	1775	1641	1491	1323	1132	898	638											0.273	12 1/4
15	A05-4-152MH100___J3	2	2	1750	2.07	1948	1606	1154																	0.444	15 1/8
15	A05-4-152MH100___O2	2	15	3450	15.9						3495	3314	3121	2913	2690	2179	1542								0.444	15 1/8
19	A05-4-192MH100___L3	2	5	1750	5.68		3435	3093	2694	2164	1497														0.665	19 1/8
22	A05-4-222MH100___O3	2	15	1750	12.5	6584	6200	5787	5341	4842	4247	3502	2505												0.93	22 1/8
26	A05-4-262MH100___Q3	2	25	1750	25.7		9846	9392	8909	8397	7859	7239	6539	5711	4682										1.24	26 1/8
29	A05-4-292MH100___O4	2	15	1160	13.5	10100	9285	8384	7369	6196	4852	2717													1.595	29 1/8
29	A05-4-292MH100___T3	2	50	1750	46.3							12539	11885	11192	10453	8833	6968	3783							1.595	29 1/8
33	A05-4-332MH100___Q4	2	25	1160	23.1	14174	13277	12329	11290	10142	8844	7420	5720												1.979	33
36	A05-4-362MH100___S4	2	40	1160	38.3		18413	17402	16316	15148	13879	12478	10956	9273	7277										2.421	36 1/2
40	A05-8-402MH100___U4	2	60	1160	60.6			22444	21230	19943	18564	17071	15445	13733	9602										2.908	40
45	A05-8-452MH100___W4	2	100	1160	111							29571	28082	26504	24826	21141	16965	11124							3.701	45 1/8
50	A05-8-502MH100___Z4	2	200	1160	194											35799	31802	27498	22542						4.635	50 1/2
57	A05-8-572MH100___Y5	2	150	870	157						46845	44365	41730	38914	35873	29278	21141								6.009	57 1/2

Size	Model	Class	Motor		Peak Fan BHP	Cubic Feet Per Minute vs. Static Pressure													Outlet Area sq. ft.	Wheel Diameter Inches						
			HP	RPM		16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"			42"					
19	A05-4-193MH100___S2	3	40	3450	43.5	5204	4685	4097	3477	2607															0.665	19 1/8
22	A05-4-224MH100___W2	4	100	3450	96.0						7407	6546	5558	4291											0.93	22 1/8
26	A05-4-264MH100___Z2	4	200	3450	197												9716	8557	7201						1.24	26 1/8
36	A05-4-363MH100___X3	3	125	1750	132	18757	16743	14563	12047	8364															2.421	36 1/2
57	A05-8-573MH100___B4	3	300	1160	372			47303	42469	37204	31184	22880													6.009	57 1/2

Series 05 Industrial Exhauster (Coupled Drive, Wheel Type PW)

Size	Model	Class	Motor		Peak Fan BHP	Cubic Feet Per Minute vs. Static Pressure													Outlet Area sq. ft.	Wheel Diameter Inches						
			HP	RPM		1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	12"	14"	16"			18"					
12	A05-8-122PW100___G3	2	3/4	1750	0.54	752	441																		0.273	12 1/4
12	A05-8-122PW100___L2	2	5	3450	4.14	1762	1670	1573	1470	1354	1218	1048	813	527											0.273	12 1/4
15	A05-8-152PW100___J3	2	2	1750	1.82	1719	1454	1067																	0.444	15 1/8
15	A05-8-152PW100___O2	2	15	3450	14.0				3496	3375	3249	3118	2981	2832	2667	2482	2008	1355							0.444	15 1/8
19	A05-8-192PW100___L3	2	5	1750	5.24	3372	3095	2778	2392	1884	1087														0.665	19 1/8
22	A05-8-222PW100___O3	2	15	1750	11.7	5939	5591	5210	4787	4327	3753	2931													0.93	22 1/8
26	A05-8-262PW100___Q3	2	25	1750	24.1	9274	8881	8467	8021	7538	7027	6468	5777	4845	3744										1.24	26 1/8
29	A05-8-292PW100___O4	2	15	1160	12.9	9060	8362	7567	6670	5593	3894														1.595	29 1/8
29	A05-8-292PW100___T3	2	50	1750	44.4					12390	11869	11319	10740	10129	9471	7870	5403								1.595	29 1/8
33	A05-8-332PW100___Q4	2	25	1160	22.2	12704	11942	11115	10195	9180	8008	6335	3974												1.979	33
36	A05-8-362PW100___S4	2	40	1160	36.8	17378	16540	15673	14716	13681	12560	11310	9764	7547	4509										2.421	36 1/2
40	A05-8-402PW100___U4	2	60	1160	58.1	23060	22139	21210	20222	19153	18012	16793	15468	13962	11969	5983									2.908	40
45	A05-8-452PW100___W4	2	100	1160	106					29139	27947	26692	25371	23979	22489	18961	13519								3.701	45 1/8
50	A05-8-502PW100___Z4	2	200	1160	186											37075	35590	32415	28801	23903	17278			4.635	50 1/2	
57	A05-8-572PW100___Y5																									

Size 12 Rating Table

Class II Class III Class IV

Series 05 Type AH Industrial Exhauster A05-_-12_AH100

Wheel Diameter – 12.25 in.
Outlet Area – 0.273 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		1"		2"		3"		4"		5"		6"		7"		8"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
400	1465	1258	0.13	1640	0.25	1953	0.40	2232	0.57	2483	0.77	2711	0.97	2923	1.19	3121	1.42
600	2198	1485	0.24	1813	0.39	2097	0.55	2345	0.74	2569	0.94	2779	1.16	2978	1.40	3168	1.66
800	2930	1749	0.40	2040	0.61	2288	0.80	2516	1.01	2728	1.24	2926	1.47	3108	1.72	3280	1.98
1000	3663	2036	0.67	2296	0.89	2523	1.15	2727	1.39	2919	1.64	3101	1.91	3275	2.18	3441	2.47
1200	4396	2336	1.04	2570	1.30	2779	1.58	2969	1.89	3146	2.19	3312	2.47	3472	2.77	3626	3.09
1400	5128	2645	1.53	2858	1.85	3050	2.14	3227	2.48	3393	2.84	3550	3.20	3698	3.54	3841	3.87
1600	5861	2960	2.17	3156	2.55	3334	2.89	3499	3.22	3655	3.61	3803	4.02	3944	4.43	4079	4.85
1800	6593	3279	2.98	3462	3.41	3627	3.82	3781	4.19	3927	4.56	4067	4.99	4201	5.44	4330	5.91
2000	7326	3600	3.97	3772	4.45	3927	4.92	4072	5.37	4210	5.77	4341	6.18	4468	6.64	4591	7.14
CFM	OV FPM	9"		10"		11"		12"		13"		14"		15"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		600	2198	3348	1.93	3520	2.22	3685	2.51	3842	2.81	3993	3.12	4140	3.44	4281	3.77
900	3297	3518	2.49	3671	2.79	3818	3.10	3960	3.42	4100	3.75	4236	4.10	4370	4.46	4500	4.83
1200	4396	3775	3.42	3919	3.75	4058	4.08	4193	4.43	4324	4.78	4451	5.14	4572	5.52	4691	5.90
1500	5495	4091	4.69	4220	5.06	4347	5.44	4471	5.83	4593	6.24	4711	6.65	4827	7.06	4941	7.48
1800	6593	4454	6.38	4574	6.85	4690	7.27	4803	7.70	4914	8.13	5022	8.56				
2100	7692	4841	8.36	4954	8.90												

Series 05 Type MH or TH Industrial Exhauster A05-_-12_H100

Wheel Diameter – 12.25 in.
Outlet Area – 0.273 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		1"		2"		3"		4"		5"		6"		7"		8"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
400	1465	1281	0.14	1691	0.27	2011	0.42	2285	0.58	2532	0.74	2761	0.92	2974	1.12	3174	1.32
600	2198	1470	0.26	1840	0.41	2149	0.59	2415	0.80	2653	1.03	2867	1.25	3066	1.48	3252	1.71
800	2930	1700	0.45	2029	0.65	2311	0.86	2562	1.08	2792	1.32	3004	1.57	3200	1.86	3383	2.16
1000	3663	1958	0.73	2247	0.99	2505	1.24	2739	1.50	2954	1.76	3154	2.04	3343	2.33	3523	2.63
1200	4396	2236	1.14	2489	1.45	2724	1.75	2940	2.05	3142	2.35	3331	2.66	3510	2.98	3680	3.31
1400	5128	2527	1.72	2750	2.03	2962	2.41	3162	2.75	3350	3.09	3528	3.44	3698	3.80	3860	4.17
1600	5861	2825	2.47	3024	2.77	3216	3.19	3400	3.64	3575	4.03	3742	4.41	3903	4.81	4057	5.21
1800	6593	3127	3.40	3310	3.76	3484	4.16	3652	4.65	3815	5.15	3971	5.59	4123	6.02	4269	6.46
2000	7326	3433	4.54	3603	4.99	3761	5.36	3916	5.86	4067	6.41	4214	6.97	4356	7.47	4494	7.95
CFM	OV FPM	9"		10"		11"		12"		13"		14"		15"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		600	2198	3428	1.95	3596	2.19	3758	2.44	3915	2.71	4067	2.98	4214	3.26	4357	3.55
900	3297	3623	2.69	3786	3.03	3941	3.37	4089	3.71	4231	4.04	4368	4.38	4501	4.72	4630	5.07
1200	4396	3843	3.65	4000	4.00	4151	4.35	4297	4.72	4438	5.11	4573	5.52	4704	5.94	4831	6.38
1500	5495	4108	5.05	4254	5.45	4396	5.85	4533	6.26	4666	6.68	4796	7.10	4922	7.54		
1800	6593	4410	6.91	4547	7.36	4680	7.82	4809	8.28	4935	8.75						
2100	7692	4742	9.30	4870	9.80	4994	10.30										

Series 05 Type PW Industrial Exhauster A05-_-12_PW100

Wheel Diameter – 12.25 in.
Outlet Area – 0.273 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		1"		2"		3"		4"		5"		6"		7"		8"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
400	1465	1307	0.16	1720	0.29	2046	0.44	2326	0.61	2575	0.81	2803	1.02	3015	1.24	3213	1.48
600	2198	1535	0.29	1882	0.49	2187	0.68	2458	0.86	2697	1.08	2916	1.30	3118	1.55	3309	1.80
800	2930	1823	0.53	2108	0.75	2371	1.01	2615	1.28	2843	1.53	3056	1.77	3256	2.02	3441	2.29
1000	3663	2139	0.89	2382	1.14	2608	1.42	2823	1.74	3027	2.07	3222	2.41	3408	2.73	3587	3.04
1200	4396	2472	1.41	2684	1.70	2881	2.01	3071	2.35	3253	2.71	3429	3.10	3599	3.50	3763	3.91
1400	5128	2815	2.13	3003	2.45	3180	2.79	3348	3.16	3511	3.55	3670	3.95	3825	4.39	3976	4.84
1600	5861	3165	3.06	3332	3.43	3493	3.81	3646	4.20	3794	4.62	3938	5.05	4079	5.51	4217	5.98
1800	6593	3518	4.24	3671	4.66	3816	5.08	3958	5.51	4094	5.96	4225	6.42	4354	6.90	4481	7.40
2000	7326	3874	5.70	4016	6.18	4148	6.63	4279	7.10	4406	7.58	4528	8.08	4647	8.59	4764	9.12
CFM	OV FPM	9"		10"		11"		12"		13"		14"		15"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		600	2198	3489	2.08	3660	2.36	3823	2.65	3980	2.96	4131	3.27	4277	3.60	4419	3.93
900	3297	3687	2.92	3851	3.23	4007	3.55	4158	3.88	4303	4.23	4443	4.58	4579	4.94	4710	5.32
1200	4396	3922	4.31	4077	4.69	4228	5.06	4374	5.43	4515	5.79	4653	6.16	4786	6.53	4916	6.91
1500	5495	4234	5.86	4372	6.36	4507	6.86	4639	7.37	4769	7.88	4895	8.39	5020	8.87		
1800	6593	4606	7.92	4729	8.45	4850	9.00	4969	9.57								
2100	7692	5022	10.70														

Performance certified is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) excludes transmission losses. Performance data is based on standard air conditions (0.075 #/ft.³). Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings seal does not apply to type TH or PR wheel. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.



Size 15 Rating Table

Class II

Class III

Class IV

Series 05 Type AH Industrial Exhauster A05- -15 AH100

Wheel Diameter – 15.625 in.
Outlet Area – 0.444 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		1"		2"		3"		4"		5"		6"		7"		8"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	1351	964	0.19	1268	0.38	1521	0.62	1743	0.90	1941	1.21	2122	1.53	2289	1.88	2445	2.25
900	2027	1119	0.34	1386	0.57	1614	0.83	1811	1.12	1991	1.45	2161	1.81	2321	2.20	2472	2.61
1200	2703	1305	0.56	1540	0.86	1743	1.16	1928	1.49	2098	1.84	2254	2.21	2399	2.61	2537	3.03
1500	3378	1507	0.90	1719	1.25	1903	1.63	2070	1.99	2227	2.39	2374	2.81	2515	3.23	2647	3.68
1800	4054	1720	1.39	1913	1.77	2083	2.22	2237	2.68	2380	3.11	2516	3.56	2646	4.04	2772	4.53
2100	4730	1941	2.03	2116	2.49	2274	2.95	2418	3.48	2553	4.03	2679	4.53	2800	5.03	2916	5.56
2400	5405	2166	2.86	2328	3.41	2474	3.91	2609	4.45	2736	5.06	2856	5.68	2971	6.29	3080	6.86
2700	6081	2395	3.89	2545	4.53	2681	5.12	2808	5.67	2928	6.29	3042	6.97	3151	7.67	3256	8.38
3000	6757	2626	5.17	2767	5.89	2895	6.58	3014	7.21	3127	7.82	3235	8.51	3339	9.25	3439	10.00
CFM	OV FPM	9"		10"		11"		12"		13"		14"		15"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		800	1802	2604	2.91	2741	3.34	2872	3.79	2997	4.25	3118	4.72	3234	5.21	3347	5.72
1200	2703	2669	3.48	2798	3.96	2922	4.46	3042	4.97	3158	5.51	3271	6.06	3380	6.64	3487	7.22
1600	3604	2811	4.41	2929	4.90	3042	5.42	3151	5.95	3257	6.50	3360	7.06	3460	7.65	3559	8.26
2000	4505	2981	5.73	3093	6.28	3202	6.84	3307	7.40	3409	7.98	3508	8.58	3604	9.19	3696	9.82
2400	5405	3185	7.43	3288	8.02	3388	8.64	3486	9.28	3581	9.93	3675	10.60	3767	11.30	3856	11.90
2800	6306	3415	9.63	3511	10.30	3603	11.00	3694	11.60	3782	12.30	3869	13.00				

Series 05 Type MH or TH Industrial Exhauster A05- -15 H100

Wheel Diameter – 15.625 in.
Outlet Area – 0.444 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		1"		2"		3"		4"		5"		6"		7"		8"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	1351	985	0.20	1310	0.41	1562	0.64	1779	0.88	1977	1.15	2158	1.44	2327	1.74	2484	2.06
900	2027	1115	0.36	1412	0.60	1658	0.89	1869	1.22	2055	1.56	2224	1.90	2381	2.25	2529	2.61
1200	2703	1274	0.62	1541	0.92	1768	1.24	1971	1.59	2154	1.96	2321	2.39	2475	2.84	2619	3.30
1500	3378	1454	1.00	1692	1.38	1902	1.75	2090	2.15	2263	2.56	2425	2.99	2576	3.44	2718	3.93
1800	4054	1649	1.51	1861	1.99	2053	2.43	2229	2.88	2392	3.35	2544	3.83	2688	4.32	2825	4.84
2100	4730	1855	2.24	2043	2.76	2218	3.31	2382	3.82	2535	4.34	2680	4.87	2817	5.42	2947	5.98
2400	5405	2068	3.21	2236	3.72	2396	4.37	2547	4.99	2691	5.56	2828	6.16	2958	6.76	3083	7.38
2700	6081	2285	4.43	2437	4.94	2583	5.63	2723	6.38	2858	7.06	2986	7.71	3110	8.37	3229	9.04
3000	6757	2504	5.91	2645	6.52	2778	7.16	2908	7.96	3033	8.81	3155	9.56	3272	10.30	3385	11.00
CFM	OV FPM	9"		10"		11"		12"		13"		14"		15"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		800	1802	2651	2.77	2789	3.15	2921	3.54	3047	3.94	3169	4.35	3287	4.78	3401	5.21
1200	2703	2754	3.74	2883	4.20	3006	4.65	3124	5.12	3237	5.59	3347	6.08	3454	6.57	3558	7.07
1600	3604	2886	4.72	3013	5.28	3134	5.86	3250	6.46	3362	7.08	3469	7.68	3572	8.28	3672	8.87
2000	4505	3032	6.13	3153	6.70	3272	7.29	3386	7.89	3495	8.51	3601	9.17	3704	9.86	3803	10.60
2400	5405	3202	8.00	3318	8.64	3429	9.29	3537	9.95	3642	10.60	3744	11.30	3844	12.00	3941	12.70
2800	6306	3393	10.40	3502	11.10	3608	11.80	3711	12.50	3811	13.30	3908	14.00				

Series 05 Type PW Industrial Exhauster A05- -15 PW100

Wheel Diameter – 15.625 in.
Outlet Area – 0.444 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		1"		2"		3"		4"		5"		6"		7"		8"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	1351	1004	0.23	1332	0.43	1589	0.68	1810	0.96	2007	1.26	2188	1.60	2355	1.96	2511	2.34
900	2027	1157	0.41	1441	0.71	1687	0.99	1900	1.29	2090	1.63	2262	1.99	2423	2.38	2573	2.79
1200	2703	1356	0.72	1593	1.07	1809	1.47	2008	1.85	2192	2.22	2362	2.59	2517	3.01	2663	3.45
1500	3378	1579	1.19	1780	1.58	1968	2.02	2145	2.51	2312	3.02	2471	3.51	2622	3.97	2766	4.43
1800	4054	1814	1.86	1992	2.30	2156	2.79	2313	3.31	2464	3.89	2609	4.49	2748	5.10	2882	5.70
2100	4730	2059	2.78	2217	3.27	2363	3.80	2504	4.37	2640	4.98	2771	5.63	2899	6.31	3023	7.01
2400	5405	2310	3.99	2450	4.54	2584	5.12	2711	5.73	2834	6.38	2954	7.06	3071	7.77	3186	8.53
2700	6081	2563	5.51	2691	6.13	2813	6.76	2931	7.42	3043	8.12	3153	8.84	3260	9.59	3366	10.40
3000	6757	2819	7.38	2937	8.08	3049	8.77	3158	9.49	3263	10.20	3364	11.00	3463	11.80	3561	12.60
CFM	OV FPM	9"		10"		11"		12"		13"		14"		15"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		800	1802	2692	3.04	2829	3.49	2960	3.95	3086	4.43	3207	4.92	3323	5.43	3436	5.96
1200	2703	2801	3.91	2932	4.39	3058	4.89	3178	5.41	3294	5.94	3407	6.49	3515	7.06	3620	7.64
1600	3604	2937	5.32	3066	5.81	3189	6.33	3306	6.88	3418	7.45	3527	8.04	3632	8.65	3735	9.27
2000	4505	3097	7.24	3217	7.90	3334	8.52	3447	9.13	3557	9.74	3664	10.40	3769	11.00	3870	11.60
2400	5405	3298	9.31	3407	10.10	3514	10.90	3618	11.70	3720	12.50	3820	13.40	3919	14.10		
2800	6306	3531	11.90	3630	12.70	3728	13.60	3823	14.50	3918	15.50						

Performance certified is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) excludes transmission losses. Performance data is based on standard air conditions (0.075 #/ft.³). Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings seal does not apply to type TH or PR wheel. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.



Size 19 Rating Table

Class II Class III Class IV

Series 05 Type AH Industrial Exhauster A05- -19_AH100

Wheel Diameter – 19.125 in.
Outlet Area – 0.665 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		1"		2"		3"		4"		5"		6"		7"		8"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	1504	786	0.28	1028	0.53	1228	0.80	1401	1.10	1556	1.42	1698	1.76	1830	2.12	1955	2.50
1500	2256	923	0.50	1132	0.84	1310	1.20	1469	1.59	1614	1.98	1748	2.39	1873	2.81	1990	3.25
2000	3008	1082	0.86	1269	1.29	1429	1.74	1572	2.21	1704	2.69	1828	3.19	1945	3.70	2057	4.22
2500	3759	1255	1.40	1422	1.91	1569	2.46	1701	3.02	1823	3.58	1937	4.16	2046	4.76	2149	5.37
3000	4511	1437	2.13	1588	2.76	1722	3.38	1845	4.03	1960	4.70	2067	5.37	2168	6.05	2265	6.74
3500	5263	1624	3.13	1762	3.86	1885	4.58	2000	5.31	2107	6.06	2208	6.83	2305	7.61	2396	8.40
4000	6015	1815	4.41	1942	5.25	2057	6.09	2163	6.91	2263	7.74	2359	8.59	2450	9.46	2538	10.30
4500	6767	2009	6.04	2127	6.97	2234	7.91	2334	8.86	2428	9.78	2518	10.70	2604	11.70	2687	12.60
5000	7519	2206	8.04	2315	9.07	2416	10.10	2510	11.20	2598	12.20	2683	13.20	2765	14.30	2844	15.30
CFM	OV FPM	9"		12"		15"		18"		21"		24"		27"		30"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		1400	2105	2092	3.53	2400	4.96	2677	6.50	2930	8.15						
2100	3158	2178	4.99	2469	6.69	2730	8.50	2970	10.40	3192	12.40	3401	14.60	3601	16.70	3790	19.00
2800	4211	2312	6.83	2580	8.92	2826	11.10	3055	13.30	3269	15.60	3470	18.00	3661	20.40		
3500	5263	2484	9.19	2731	11.60	2959	14.10	3174	16.80	3376	19.40	3568	22.20	3752	24.90		
4200	6316	2679	12.10	2911	15.00	3124	17.80	3324	20.80	3514	23.80	3696	26.90				
4900	7368	2889	15.80	3108	19.00	3311	22.30	3500	25.60	3679	29.00						

Series 05 Type MH or TH Industrial Exhauster A05- -19_H100

Wheel Diameter – 19.125 in.
Outlet Area – 0.665 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		1"		2"		3"		4"		5"		6"		7"		8"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	1504	790	0.30	1031	0.56	1230	0.83	1401	1.13	1553	1.44	1693	1.77	1822	2.11	1943	2.47
1500	2256	919	0.59	1136	0.93	1317	1.30	1474	1.68	1617	2.08	1750	2.49	1875	2.92	1991	3.36
2000	3008	1084	1.07	1264	1.49	1429	1.94	1579	2.43	1714	2.92	1838	3.42	1953	3.93	2063	4.45
2500	3759	1263	1.82	1420	2.32	1563	2.84	1698	3.39	1825	3.98	1945	4.59	2058	5.21	2162	5.83
3000	4511	1449	2.88	1594	3.47	1719	4.08	1838	4.70	1953	5.35	2064	6.03	2170	6.73	2272	7.46
3500	5263	1641	4.32	1774	5.02	1890	5.71	1997	6.41	2099	7.14	2200	7.88	2298	8.65	2392	9.44
4000	6015	1837	6.19	1958	7.01	2069	7.79	2168	8.58	2261	9.39	2351	10.20	2441	11.10	2528	11.90
4500	6767	2038	8.55	2147	9.50	2250	10.40	2346	11.30	2434	12.20	2517	13.10	2598	14.00	2677	14.90
5000	7519	2240	11.50	2340	12.50	2436	13.60	2526	14.50	2612	15.50	2691	16.50	2767	17.50	2840	18.50
CFM	OV FPM	9"		12"		15"		18"		21"		24"		27"		30"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		1400	2105	2090	3.59	2393	4.96	2663	6.44	2909	8.03	3137	9.73	3350	11.50		
2100	3158	2184	5.25	2473	6.98	2732	8.79	2969	10.70	3189	12.60	3395	14.70	3589	16.80	3774	18.90
2800	4211	2326	7.47	2593	9.56	2836	11.70	3062	14.00	3274	16.30	3474	18.70	3664	21.10		
3500	5263	2484	10.20	2743	12.80	2977	15.40	3191	18.00	3390	20.70	3579	23.40	3761	26.20		
4200	6316	2669	14.00	2908	16.80	3132	19.80	3341	22.90	3536	26.00	3717	29.10				
4900	7368	2880	18.80	3097	21.90	3304	25.10	3501	28.50	3689	32.10						

Series 05 Type PW Industrial Exhauster A05- -19_PW100

Wheel Diameter – 19.125 in.
Outlet Area – 0.665 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		1"		2"		3"		4"		5"		6"		7"		8"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	1504	820	0.34	1068	0.61	1269	0.90	1442	1.21	1598	1.53	1742	1.88	1875	2.25	2000	2.63
1500	2256	974	0.70	1183	1.07	1365	1.44	1526	1.84	1673	2.27	1808	2.71	1934	3.16	2052	3.61
2000	3008	1161	1.30	1335	1.77	1494	2.27	1641	2.76	1776	3.25	1903	3.75	2022	4.29	2135	4.86
2500	3759	1367	2.24	1514	2.79	1652	3.39	1783	4.00	1906	4.62	2023	5.23	2134	5.84	2240	6.46
3000	4511	1584	3.59	1711	4.23	1832	4.90	1947	5.62	2058	6.36	2164	7.09	2267	7.83	2366	8.57
3500	5263	1808	5.43	1919	6.16	2026	6.92	2128	7.71	2228	8.54	2325	9.40	2419	10.30	2510	11.10
4000	6015	2035	7.85	2134	8.68	2230	9.53	2322	10.40	2412	11.30	2501	12.20	2587	13.20	2671	14.20
4500	6767	2265	10.90	2355	11.90	2441	12.80	2525	13.80	2608	14.80	2688	15.80	2767	16.80	2845	17.90
5000	7519	2497	14.80	2579	15.80	2658	16.80	2735	17.90	2811	19.00	2885	20.00	2957	21.20	3029	22.30
CFM	OV FPM	9"		12"		15"		18"		21"		24"		27"		30"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		1400	2105	2151	3.84	2462	5.28	2740	6.85	2993	8.53	3226	10.30	3443	12.20	3647	14.10
2100	3158	2261	5.73	2554	7.60	2816	9.48	3057	11.40	3281	13.50	3493	15.60	3693	17.80		
2800	4211	2411	8.36	2685	10.50	2936	12.80	3167	15.20	3382	17.70	3584	20.20	3776	22.80		
3500	5263	2599	12.00	2851	14.60	3085	17.10	3304	19.80	3510	22.60	3705	25.50				
4200	6316	2818	16.60	3048	19.70	3265	22.80	3470	25.90	3665	29.00						
4900	7368	3063	22.50	3271	26.10	3470	29.70	3661	33.30								

Performance certified is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) excludes transmission losses. Performance data is based on standard air conditions (0.075 #/ft.³). Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings seal does not apply to type TH or PR wheel. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.



Size 22 Rating Table

Class II

Class III

Class IV

Series 05 Type AH Industrial Exhauster A05-_-22_AH100

Wheel Diameter – 22.625 in.
Outlet Area – 0.93 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	1075	867	0.58	1218	1.35												
1800	1935	926	0.97	1242	1.96	1504	3.08	1729	4.34	1928	5.70	2110	7.15				
2600	2796	1042	1.56	1316	2.81	1549	4.17	1759	5.64	1952	7.20	2129	8.85	2293	10.60	2446	12.40
3400	3656	1193	2.50	1428	3.93	1639	5.57	1829	7.29	2004	9.09	2168	11.00	2325	12.90	2473	15.00
4200	4516	1348	3.81	1570	5.50	1754	7.31	1930	9.31	2092	11.40	2243	13.50	2388	15.70	2526	18.00
5000	5376	1512	5.57	1724	7.62	1896	9.63	2050	11.80	2201	14.10	2344	16.50	2479	19.00	2608	21.50
5800	6237	1687	7.92	1879	10.30	2048	12.60	2194	14.90	2329	17.40	2459	20.00	2587	22.70	2710	25.60
6600	7097	1868	10.90	2040	13.50	2204	16.20	2346	18.90	2475	21.50	2595	24.30	2710	27.10	2825	30.20
7400	7957	2054	14.60	2209	17.50	2361	20.50	2502	23.60	2627	26.50	2743	29.50	2852	32.50	2957	35.70
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		2700	2903	2730	16.60	2986	20.80	3222	25.30								
3600	3871	2757	20.00	3008	24.70	3240	29.60	3457	34.70	3662	40.00	3857	45.60	4042	51.30		
4500	4839	2808	24.20	3046	29.30	3272	34.60	3486	40.20	3687	46.00	3878	51.90	4061	58.10		
5400	5806	2894	29.00	3117	34.70	3328	40.50	3530	46.60	3725	52.90	3912	59.30	4092	65.90		
6300	6774	3005	34.50	3215	40.80	3414	47.30	3605	53.90	3789	60.70	3966	67.70	4138	74.80		
7200	7742	3131	40.80	3332	47.70	3522	54.80	3703	62.10	3878	69.50	4046	77.00				

Series 05 Type MH or TH Industrial Exhauster A05-_-22_H100

Wheel Diameter – 22.625 in.
Outlet Area – 0.93 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	1075	858	0.63	1196	1.48	1459	2.50										
1800	1935	927	1.06	1240	2.13	1490	3.37	1707	4.75	1899	6.24	2074	7.84	2236	9.53	2386	11.30
2600	2796	1032	1.85	1318	3.08	1554	4.54	1758	6.14	1941	7.86	2111	9.68	2269	11.60	2416	13.60
3400	3656	1166	2.94	1419	4.53	1638	6.13	1834	7.96	2010	9.90	2172	11.90	2322	14.10	2464	16.30
4200	4516	1321	4.59	1543	6.55	1743	8.45	1925	10.30	2093	12.50	2250	14.80	2395	17.10	2533	19.60
5000	5376	1487	6.83	1685	8.96	1867	11.50	2035	13.70	2192	15.80	2340	18.30	2480	20.80	2613	23.50
5800	6237	1661	9.80	1841	12.30	2004	14.80	2160	17.80	2307	20.50	2445	22.90	2578	25.50	2705	28.30
6600	7097	1840	13.60	2004	16.50	2155	19.30	2296	22.20	2433	25.60	2565	29.00	2690	31.70	2810	34.40
7400	7957	2024	18.30	2173	21.50	2314	24.80	2445	27.90	2571	31.20	2694	35.00	2813	38.90	2927	42.20
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		2700	2903	2692	18.20	2939	22.80	3166	27.70	3379	32.80	3579	38.20	3769	43.70	3950	49.50
3600	3871	2740	21.90	2981	27.00	3204	32.40	3413	38.00	3611	43.90	3798	49.90	3977	56.20	4148	62.70
4500	4839	2813	26.30	3044	31.90	3259	37.80	3463	43.90	3656	50.30	3840	56.90	4016	63.70		
5400	5806	2902	31.60	3127	37.70	3336	44.10	3533	50.80	3719	57.60	3897	64.70	4069	72.00		
6300	6774	3002	38.00	3220	44.60	3424	51.50	3617	58.70	3799	66.10	3973	73.70	4140	81.50		
7200	7742	3117	46.10	3325	52.90	3522	60.30	3710	67.90	3889	75.80	4059	83.90				

Series 05 Type PW Industrial Exhauster A05-_-22_PW100

Wheel Diameter – 22.625 in.
Outlet Area – 0.93 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	1075	890	0.69	1247	1.61	1524	2.70	1759	3.93								
1800	1935	963	1.21	1280	2.34	1544	3.69	1773	5.20	1976	6.82	2161	8.55	2331	10.40	2490	12.30
2600	2796	1081	2.05	1369	3.52	1607	5.07	1815	6.75	2007	8.59	2186	10.60	2354	12.70	2510	14.90
3400	3656	1241	3.44	1481	5.09	1704	7.03	1902	9.02	2080	11.10	2243	13.20	2397	15.50	2545	17.80
4200	4516	1417	5.46	1629	7.40	1820	9.48	2003	11.80	2176	14.30	2334	16.80	2481	19.30	2619	21.80
5000	5376	1605	8.26	1795	10.60	1967	12.90	2127	15.40	2281	18.00	2434	20.90	2578	23.90	2713	26.80
5800	6237	1802	12.00	1972	14.60	2130	17.30	2277	20.00	2416	22.80	2550	25.80	2683	29.00	2814	32.40
6600	7097	2005	16.70	2157	19.80	2302	22.80	2439	25.80	2568	28.90	2692	32.10	2811	35.40	2928	38.90
7400	7957	2212	22.60	2350	26.10	2482	29.50	2610	32.90	2731	36.30	2847	39.70	2959	43.30	3067	46.90
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		2700	2903	2799	19.90	3059	24.90	3300	30.20	3524	35.70	3735	41.50	3936	47.40	4127	53.60
3600	3871	2834	23.90	3089	29.50	3326	35.50	3547	41.60	3755	48.00	3952	54.50	4141	61.40		
4500	4839	2908	29.10	3143	35.00	3367	41.30	3582	48.00	3787	55.00	3982	62.30	4169	69.70		
5400	5806	3010	35.90	3237	42.30	3448	49.00	3648	55.90	3840	63.20	4026	70.80				
6300	6774	3122	43.60	3345	51.00	3551	58.40	3745	65.90	3929	73.60	4105	81.60				
7200	7742	3245	52.30	3459	60.60	3662	69.10	3853	77.50	4033	86.00						

Performance certified is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) excludes transmission losses. Performance data is based on standard air conditions (0.075 #/ft.³). Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings seal does not apply to type TH or PR wheel. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.



Size 26 Rating Table

Class II Class III Class IV

Series 05 Type AH Industrial Exhauster A05-_-26_AH100

Wheel Diameter – 26.125 in.
Outlet Area – 1.24 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1210	755	0.84	1056	1.91												
2500	2016	810	1.35	1079	2.70	1305	4.23	1499	5.92	1671	7.76	1828	9.73	1973	11.80		
3500	2823	907	2.11	1142	3.79	1344	5.62	1525	7.58	1691	9.67	1844	11.90	1986	14.20	2119	16.70
4500	3629	1029	3.28	1233	5.19	1417	7.36	1581	9.64	1733	12.00	1876	14.50	2012	17.10	2141	19.80
5500	4435	1155	4.90	1347	7.11	1509	9.50	1662	12.10	1803	14.90	1936	17.70	2062	20.60	2182	23.60
6500	5242	1287	7.01	1472	9.67	1622	12.30	1758	15.10	1890	18.20	2015	21.30	2133	24.60	2246	27.90
7500	6048	1427	9.80	1598	12.80	1745	15.90	1872	18.90	1990	22.10	2107	25.60	2219	29.20	2326	32.80
8500	6855	1573	13.30	1727	16.70	1871	20.20	1995	23.60	2107	27.00	2212	30.60	2315	34.40	2417	38.40
9500	7661	1723	17.60	1862	21.40	1997	25.30	2120	29.20	2230	32.90	2331	36.80	2426	40.80	2519	44.90
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		3600	2903	2364	22.20	2586	27.80	2791	33.70								
4800	3871	2388	26.70	2605	32.90	2806	39.40	2994	46.20	3172	53.40	3340	60.80	3501	68.40		
6000	4839	2432	32.20	2638	39.00	2834	46.20	3019	53.60	3193	61.30	3359	69.30	3517	77.50		
7200	5806	2506	38.60	2699	46.20	2882	54.00	3057	62.10	3226	70.50	3388	79.10	3544	87.90		
8400	6774	2602	46.00	2784	54.40	2957	63.00	3122	71.90	3281	80.90	3435	90.20	3583	99.80		
9600	7742	2712	54.40	2886	63.70	3050	73.10	3207	82.70	3358	92.60	3504	103.00				

Series 05 Type MH or TH Industrial Exhauster A05-_-26_H100

Wheel Diameter – 26.125 in.
Outlet Area – 1.24 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1210	750	0.92	1040	2.09	1266	3.49	1458	5.07								
2500	2016	810	1.49	1079	2.94	1295	4.63	1481	6.49	1647	8.51	1798	10.70	1938	12.90	2068	15.30
3500	2823	897	2.50	1144	4.15	1348	6.11	1524	8.26	1683	10.60	1830	13.00	1966	15.60	2093	18.20
4500	3629	1006	3.86	1226	5.96	1416	8.10	1586	10.50	1738	13.10	1879	15.80	2009	18.70	2132	21.60
5500	4435	1131	5.88	1326	8.48	1500	10.90	1659	13.40	1806	16.30	1941	19.30	2068	22.40	2187	25.70
6500	5242	1265	8.58	1439	11.40	1599	14.70	1746	17.50	1884	20.30	2013	23.50	2136	26.90	2252	30.50
7500	6048	1405	12.10	1564	15.40	1708	18.70	1846	22.60	1975	25.90	2096	29.00	2213	32.50	2324	36.20
8500	6855	1550	16.60	1695	20.30	1828	23.90	1954	27.90	2076	32.30	2191	36.20	2301	39.70	2407	43.30
9500	7661	1698	22.10	1831	26.20	1956	30.40	2072	34.30	2184	38.90	2294	43.90	2399	48.60	2499	52.60
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		3600	2903	2331	24.30	2545	30.40	2742	36.90	2926	43.70	3100	50.90	3264	58.30	3421	66.00
4800	3871	2373	29.20	2582	36.00	2775	43.20	2956	50.70	3127	58.50	3289	66.60	3444	74.90	3592	83.60
6000	4839	2437	35.00	2637	42.50	2823	50.40	2999	58.60	3166	67.10	3326	75.80	3478	84.90		
7200	5806	2513	42.10	2708	50.30	2889	58.80	3059	67.70	3221	76.80	3375	86.30	3524	96.00		
8400	6774	2600	50.70	2789	59.50	2966	68.70	3132	78.30	3290	88.10	3441	98.20	3585	109.00		
9600	7742	2699	61.40	2880	70.60	3051	80.30	3213	90.50	3368	101.00	3515	112.00				

Series 05 Type PW Industrial Exhauster A05-_-26_PW100

Wheel Diameter – 26.125 in.
Outlet Area – 1.24 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1210	775	1.00	1082	2.29	1321	3.80	1524	5.49	1703	7.35	1866	9.34				
2500	2016	842	1.70	1114	3.24	1340	5.06	1538	7.10	1713	9.30	1873	11.60	2020	14.10	2158	16.70
3500	2823	940	2.78	1188	4.75	1394	6.83	1574	9.08	1739	11.50	1894	14.20	2039	17.00	2174	20.00
4500	3629	1070	4.51	1279	6.71	1473	9.28	1645	11.90	1799	14.60	1941	17.50	2074	20.50	2203	23.60
5500	4435	1212	6.99	1398	9.53	1565	12.30	1726	15.40	1876	18.60	2013	21.80	2141	25.10	2261	28.50
6500	5242	1364	10.40	1532	13.30	1683	16.40	1823	19.60	1960	23.20	2094	27.00	2219	30.80	2337	34.60
7500	6048	1523	14.70	1673	18.20	1813	21.70	1942	25.20	2065	28.90	2184	32.80	2302	37.10	2417	41.50
8500	6855	1687	20.30	1822	24.30	1951	28.20	2072	32.10	2186	36.10	2295	40.30	2401	44.60	2505	49.20
9500	7661	1854	27.20	1977	31.70	2095	36.10	2209	40.50	2316	44.80	2418	49.30	2517	53.90	2613	58.60
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		3600	2903	2424	26.60	2649	33.20	2857	40.20	3052	47.60	3235	55.30	3408	63.20	3574	71.50
4800	3871	2454	31.90	2675	39.40	2880	47.30	3071	55.50	3252	63.90	3423	72.70	3586	81.80		
6000	4839	2518	38.90	2722	46.70	2916	55.10	3102	64.00	3279	73.30	3449	83.00	3610	93.00		
7200	5806	2607	47.80	2804	56.40	2986	65.30	3160	74.60	3326	84.20	3487	94.30				
8400	6774	2704	58.10	2897	68.00	3075	77.90	3244	87.90	3403	98.20	3555	109.00				
9600	7742	2811	69.70	2995	80.80	3172	92.10	3337	103.00	3493	115.00						

Performance certified is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) excludes transmission losses. Performance data is based on standard air conditions (0.075 #/ft.³). Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings seal does not apply to type TH or PR wheel. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.



Size 29 Rating Table

Class II

Class III

Class IV

Series 05 Type AH Industrial Exhauster A05-_-29_AH100

Wheel Diameter – 29.625 in.
Outlet Area – 1.595 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1881	683	1.38	912	2.63	1103	3.92	1264	5.30	1407	6.75	1537	8.27				
4500	2821	784	2.42	980	4.19	1150	6.03	1298	7.94	1436	9.84	1565	11.80	1683	13.70	1793	15.80
6000	3762	909	4.03	1080	6.24	1230	8.59	1367	11.00	1493	13.50	1610	16.00	1719	18.50	1825	21.10
7500	4702	1044	6.33	1201	9.07	1335	11.80	1458	14.70	1573	17.70	1682	20.80	1786	23.80	1885	26.90
9000	5643	1176	9.49	1332	12.80	1455	16.10	1567	19.40	1673	22.80	1773	26.30	1869	29.90	1961	33.50
10500	6583	1316	13.70	1467	17.50	1585	21.30	1689	25.20	1787	29.00	1879	32.90	1968	37.00	2054	41.10
12000	7524	1466	19.20	1598	23.50	1719	27.80	1819	32.20	1911	36.60	1998	41.00	2081	45.40	2161	49.90
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		4000	2508	1986	18.20												
6000	3762	2024	26.20	2206	31.30	2373	36.80	2528	42.40	2675	48.10	2814	54.00	2947	60.00	3074	66.20
8000	5016	2089	35.60	2256	42.40	2415	49.20	2568	56.00	2714	62.70	2853	69.60	2984	76.70	3109	83.90
10000	6270	2189	46.50	2348	54.60	2497	62.80	2637	71.20	2771	79.70	2900	88.20	3027	96.60	3150	105.00
12000	7524	2314	59.20	2460	68.70	2599	78.40	2734	88.10	2863	97.90	2987	108.00	3105	118.00		

Series 05 Type MH or TH Industrial Exhauster A05-_-29_H100

Wheel Diameter – 29.625 in.
Outlet Area – 1.595 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1881	680	1.49	903	2.82	1084	4.26	1242	5.81	1384	7.44	1513	9.15	1634	10.90	1746	12.70
4500	2821	771	2.71	976	4.54	1143	6.50	1287	8.49	1418	10.50	1539	12.70	1653	14.90	1760	17.20
6000	3762	879	4.60	1067	6.93	1223	9.36	1360	11.90	1484	14.50	1599	17.20	1705	19.80	1805	22.50
7500	4702	1002	7.36	1169	10.30	1316	13.20	1446	16.20	1564	19.30	1674	22.50	1776	25.70	1873	29.00
9000	5643	1134	11.20	1284	14.70	1419	18.20	1542	21.70	1655	25.10	1760	28.80	1858	32.50	1951	36.40
10500	6583	1273	16.30	1408	20.40	1532	24.40	1646	28.50	1753	32.60	1854	36.60	1949	40.80	2039	45.00
12000	7524	1417	22.90	1539	27.60	1652	32.20	1759	36.80	1859	41.50	1955	46.20	2046	50.80	2133	55.40
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		4000	2508	1955	20.20	2139	24.80	2310	29.60	2469	34.60						
6000	3762	1993	28.20	2167	34.00	2330	40.20	2483	46.50	2629	52.90	2767	59.50	2900	66.30	3027	73.20
8000	5016	2076	38.30	2239	45.40	2391	52.60	2535	60.00	2672	67.60	2804	75.40	2931	83.40	3054	91.50
10000	6270	2178	50.40	2335	59.00	2482	67.70	2620	76.60	2751	85.40	2876	94.30	2996	103.00	3111	112.00
12000	7524	2296	65.00	2446	74.90	2587	85.00	2720	95.30	2847	106.00	2969	116.00	3085	127.00		

Series 05 Type PW Industrial Exhauster A05-_-29_PW100

Wheel Diameter – 29.625 in.
Outlet Area – 1.595 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1881	704	1.65	940	3.09	1126	4.61	1287	6.23	1430	7.95	1560	9.74	1680	11.60	1792	13.50
4500	2821	803	3.11	1008	5.02	1186	7.17	1340	9.33	1476	11.50	1601	13.80	1718	16.20	1827	18.60
6000	3762	931	5.47	1108	7.92	1263	10.40	1407	13.20	1540	16.00	1661	18.90	1774	21.80	1880	24.70
7500	4702	1073	8.95	1229	12.00	1368	15.10	1495	18.10	1615	21.30	1731	24.80	1840	28.50	1944	32.00
9000	5643	1226	13.80	1364	17.60	1490	21.10	1606	24.90	1715	28.50	1819	32.20	1919	36.10	2016	40.20
10500	6583	1386	20.40	1507	24.70	1622	29.00	1729	33.20	1830	37.50	1927	41.90	2019	46.10	2107	50.40
12000	7524	1550	29.00	1658	33.80	1763	38.90	1862	43.70	1956	48.40	2046	53.30	2132	58.40	2215	63.30
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		4000	2508	2017	21.50	2201	26.30	2371	31.40	2529	36.60						
6000	3762	2074	30.70	2252	36.90	2418	43.30	2573	49.90								
8000	5016	2156	42.20	2329	49.90	2489	57.70										
10000	6270	2251	55.70	2418	65.40	2575	74.80										
12000	7524	2374	73.10	2525	83.20												

Series 05 Type PR Industrial Exhauster A05-_-294PR100

Wheel Diameter – 29.625 in.
Outlet Area – 1.595 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4000	2508	1995	21.40	2181	26.30	2354	31.40	2515	36.70	2666	42.20	2810	47.80	2946	53.50	3076	59.40
6000	3762	2045	30.50	2218	36.60	2383	43.00	2538	49.60	2685	56.40	2825	63.30	2959	70.40	3088	77.70
8000	5016	2125	41.70	2297	49.50	2456	57.40	2603	65.20	2741	73.20	2873	81.40	3000	89.70	3124	98.20
10000	6270	2220	55.00	2382	64.20	2537	73.60	2683	83.20	2821	93.00	2953	103.00	3078	113.00		
12000	7524	2338	71.60	2492	82.10	2636	92.90	2774	104.00	2906	115.00	3035	126.00	3158	138.00		

Performance certified is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) excludes transmission losses. Performance data is based on standard air conditions (0.075 #/ft.³). Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings seal does not apply to type TH or PR wheel. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.



Size 33 Rating Table

Class II Class III Class IV

Series 05 Type AH Industrial Exhauster A05-_-33_AH100

Wheel Diameter – 33.0 in.
Outlet Area – 1.979 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	1011	569	0.88														
4000	2021	624	1.87	825	3.53	994	5.23	1139	7.00	1267	8.88	1383	10.80	1490	12.90		
6000	3032	728	3.39	898	5.71	1047	8.14	1177	10.60	1297	13.20	1411	15.70	1517	18.30	1616	20.90
8000	4042	852	5.75	1001	8.68	1130	11.80	1249	15.00	1360	18.20	1463	21.50	1559	24.80	1651	28.30
10000	5053	981	9.18	1121	12.80	1237	16.50	1344	20.30	1444	24.20	1538	28.20	1629	32.20	1716	36.30
12000	6064	1111	13.90	1249	18.30	1358	22.70	1455	27.10	1546	31.50	1633	36.10	1716	40.90	1796	45.60
14000	7074	1251	20.30	1378	25.40	1485	30.50	1577	35.60	1661	40.70	1742	45.90	1818	51.10	1893	56.50
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		5000	2527	1784	22.80												
7500	3790	1818	32.70	1981	39.20	2131	46.00	2271	52.90	2402	60.10	2527	67.40	2646	74.90	2760	82.50
10000	5053	1878	44.60	2027	53.10	2170	61.50	2307	70.00	2438	78.50	2562	87.00	2680	95.80	2793	105.00
12500	6316	1969	58.20	2111	68.40	2245	78.60	2371	89.00	2490	99.60	2606	110.00	2719	121.00	2830	131.00
15000	7580	2083	74.20	2213	86.10	2338	98.20	2459	110.00	2574	123.00	2685	135.00	2791	147.00		

Series 05 Type MH or TH Industrial Exhauster A05-_-33_H100

Wheel Diameter – 33.0 in.
Outlet Area – 1.979 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	1011	559	0.96	784	2.08												
4000	2021	621	2.03	819	3.78	978	5.64	1118	7.64	1244	9.76	1360	12.00	1467	14.30	1568	16.60
6000	3032	712	3.81	893	6.21	1041	8.78	1169	11.40	1285	14.10	1391	16.90	1492	19.80	1587	22.70
8000	4042	821	6.60	984	9.72	1122	12.90	1243	16.20	1353	19.70	1454	23.20	1549	26.70	1638	30.20
10000	5053	943	10.70	1087	14.60	1215	18.50	1330	22.40	1434	26.40	1530	30.60	1621	34.90	1707	39.20
12000	6064	1073	16.50	1202	21.10	1318	25.80	1425	30.50	1525	35.10	1617	39.80	1704	44.70	1786	49.70
14000	7074	1210	24.20	1325	29.70	1431	35.10	1530	40.50	1623	46.00	1711	51.40	1795	56.80	1874	62.30
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		5000	2527	1755	25.10	1920	30.90	2073	36.90	2216	43.10						
7500	3790	1790	35.20	1947	42.50	2092	50.10	2230	58.00	2360	66.10	2485	74.30	2603	82.70	2717	91.30
10000	5053	1866	48.00	2012	56.80	2148	65.80	2277	75.00	2401	84.50	2519	94.20	2633	104.00	2742	114.00
12500	6316	1959	63.10	2100	73.90	2231	84.80	2355	95.80	2473	107.00	2585	118.00	2692	129.00	2796	141.00
15000	7580	2066	81.50	2200	93.90	2326	107.00	2446	119.00	2560	132.00	2669	145.00	2774	159.00		

Series 05 Type PW Industrial Exhauster A05-_-33_PW100

Wheel Diameter – 33.0 in.
Outlet Area – 1.979 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	1011	580	1.03	806	2.20	981	3.52	1130	4.96								
4000	2021	642	2.24	852	4.15	1018	6.14	1161	8.24	1288	10.50	1405	12.80	1512	15.20	1612	17.60
6000	3032	745	4.40	922	6.88	1078	9.72	1215	12.60	1337	15.50	1449	18.50	1552	21.50	1649	24.60
8000	4042	873	7.92	1025	11.20	1160	14.40	1284	17.90	1401	21.80	1509	25.60	1610	29.40	1704	33.20
10000	5053	1014	13.10	1147	17.20	1267	21.30	1378	25.40	1481	29.50	1580	33.80	1676	38.60	1768	43.40
12000	6064	1164	20.50	1281	25.50	1389	30.30	1490	35.20	1585	40.20	1674	45.00	1761	50.00	1844	55.10
14000	7074	1321	30.60	1423	36.20	1521	42.10	1614	47.60	1701	53.30	1784	59.10	1864	64.90		
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		5000	2527	1811	26.80	1976	32.90	2129	39.20	2271	45.70						
7500	3790	1864	38.40	2023	46.10	2172	54.00	2311	62.30								
10000	5053	1938	52.90	2093	62.50	2237	72.20										
12500	6316	2024	69.80	2174	81.80	2314	93.70										
15000	7580	2137	91.80	2272	104.00												

Series 05 Type PR Industrial Exhauster A05-_-33PR100

Wheel Diameter – 33.0 in.
Outlet Area – 1.979 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	2527	1791	26.70	1958	32.80	2113	39.20	2258	45.80	2394	52.60	2523	59.50	2645	66.70	2761	74.00
7500	3790	1837	38.20	1993	45.80	2140	53.80	2279	62.00	2411	70.40	2537	79.00	2657	87.90	2773	96.90
10000	5053	1910	52.20	2064	61.90	2207	71.70	2339	81.60	2463	91.60	2581	102.00	2695	112.00	2806	123.00
12500	6316	1997	68.90	2142	80.30	2281	92.10	2412	104.00	2536	116.00	2653	129.00	2766	141.00		
15000	7580	2104	89.80	2242	103.00	2371	116.00	2495	130.00	2613	144.00	2728	158.00	2838	172.00		

Performance certified is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) excludes transmission losses. Performance data is based on standard air conditions (0.075 #/ft.³). Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings seal does not apply to type TH or PR wheel. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.



Size 36 Rating Table

Class II Class III Class IV

Series 05 Type AH Industrial Exhauster A05-_-36_AH100

Wheel Diameter – 36.5 in.
Outlet Area – 2.421 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2500	1033	515	1.09														
5000	2065	568	2.35	748	4.42	900	6.54	1031	8.74	1146	11.10	1251	13.50	1348	16.00		
7500	3098	665	4.30	817	7.18	950	10.20	1068	13.30	1175	16.50	1277	19.70	1373	22.90	1463	26.10
10000	4131	781	7.34	914	11.00	1030	14.80	1136	18.80	1235	22.80	1328	26.90	1415	31.10	1497	35.40
12500	5163	899	11.80	1026	16.30	1130	20.90	1225	25.60	1315	30.50	1399	35.50	1481	40.50	1559	45.60
15000	6196	1021	17.90	1145	23.40	1242	28.90	1329	34.40	1411	39.90	1488	45.60	1563	51.50	1635	57.40
17500	7228	1151	26.30	1263	32.60	1360	38.90	1443	45.30	1519	51.80	1591	58.20	1659	64.60	1726	71.30
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		6000	2478	1612	27.40												
9000	3717	1641	39.20	1789	47.10	1925	55.30	2051	63.70	2170	72.40	2283	81.20	2391	90.30	2494	99.50
12000	4957	1692	53.40	1828	63.60	1958	73.70	2083	83.90	2202	94.10	2314	104.00	2420	115.00	2522	126.00
15000	6196	1771	69.50	1901	81.70	2022	94.00	2136	107.00	2245	119.00	2351	132.00	2454	145.00	2555	157.00
18000	7435	1871	88.40	1989	103.00	2103	117.00	2213	132.00	2318	146.00	2419	161.00	2515	176.00		

Series 05 Type MH or TH Industrial Exhauster A05-_-36_H100

Wheel Diameter – 36.5 in.
Outlet Area – 2.421 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2500	1033	506	1.19	709	2.58												
5000	2065	565	2.55	743	4.74	886	7.04	1012	9.52	1126	12.10	1230	14.90	1327	17.70	1418	20.60
7500	3098	650	4.84	812	7.83	945	11.00	1061	14.30	1165	17.70	1261	21.10	1351	24.70	1437	28.30
10000	4131	752	8.45	897	12.30	1021	16.30	1130	20.40	1229	24.70	1320	29.10	1406	33.50	1486	37.90
12500	5163	865	13.80	994	18.60	1108	23.50	1211	28.30	1305	33.40	1392	38.60	1473	43.90	1550	49.30
15000	6196	986	21.30	1101	27.10	1205	32.90	1300	38.70	1389	44.50	1473	50.40	1551	56.40	1625	62.60
17500	7228	1113	31.30	1215	38.10	1310	44.90	1398	51.60	1481	58.50	1560	65.30	1635	72.00	1707	78.80
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		6000	2478	1586	30.30	1736	37.30	1874	44.60	2004	52.10						
9000	3717	1616	42.30	1758	51.10	1890	60.40	2014	69.90	2133	79.60	2245	89.60	2353	99.80	2456	110.00
12000	4957	1681	57.40	1814	68.00	1937	78.80	2054	90.00	2167	101.00	2274	113.00	2377	125.00	2477	138.00
15000	6196	1763	75.30	1890	88.20	2010	101.00	2122	115.00	2229	128.00	2330	141.00	2428	155.00	2522	169.00
18000	7435	1856	96.90	1978	112.00	2093	127.00	2202	143.00	2305	158.00	2404	174.00	2499	190.00		

Series 05 Type PW Industrial Exhauster A05-_-36_PW100

Wheel Diameter – 36.5 in.
Outlet Area – 2.421 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2500	1033	526	1.28	730	2.74	888	4.37	1022	6.15								
5000	2065	583	2.82	773	5.21	922	7.68	1051	10.30	1166	13.00	1271	15.90	1369	18.90	1459	21.90
7500	3098	681	5.60	839	8.70	979	12.20	1103	15.80	1213	19.40	1313	23.10	1406	26.90	1494	30.70
10000	4131	800	10.20	936	14.20	1056	18.30	1167	22.60	1272	27.40	1370	32.10	1460	36.80	1545	41.70
12500	5163	931	16.90	1050	22.00	1157	27.10	1256	32.20	1349	37.40	1437	42.70	1523	48.50	1605	54.60
15000	6196	1071	26.50	1175	32.70	1271	38.80	1361	44.80	1446	51.10	1526	57.20	1603	63.30	1678	69.60
17500	7228	1216	39.60	1307	46.70	1394	54.00	1477	61.00	1555	67.90	1629	75.20	1701	82.50	1769	89.60
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		6000	2478	1636	32.30	1786	39.60	1923	47.30	2052	55.20						
9000	3717	1682	46.10	1826	55.40	1961	65.00	2087	74.90								
12000	4957	1747	63.20	1887	74.80	2017	86.50										
15000	6196	1822	83.30	1958	97.70	2085	112.00										
18000	7435	1919	109.00	2043	124.00												

Series 05 Type PR Industrial Exhauster A05-_-364PR100

Wheel Diameter – 36.5 in.
Outlet Area – 2.421 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6000	2478	1618	32.2	1770	39.6	1910	47.3	2041	55.3	2164	63.5	2280	72.0	2391	80.6	2496	89.5
9000	3717	1657	45.8	1799	55.0	1933	64.6	2059	74.6	2179	84.8	2292	95.3	2401	106	2506	117
12000	4957	1722	62.4	1861	74.1	1990	86.0	2109	97.8	2222	110	2329	122	2433	135	2533	147
15000	6196	1797	82.1	1929	96.0	2055	110	2174	125	2286	139	2393	154	2494	169		
18000	7435	1890	107	2016	123	2134	139	2246	155	2354	172	2458	189	2558	206		

Performance certified is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) excludes transmission losses. Performance data is based on standard air conditions (0.075 #/ft.³). Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings seal does not apply to type TH or PR wheel. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.



Size 40 Rating Table

Class II Class III Class IV

Series 05 Type AH Industrial Exhauster A05- -40_AH100

Wheel Diameter – 40.0 in.
Outlet Area – 2.908 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1032	470	1.31														
6000	2063	518	2.82	683	5.31	821	7.85	941	10.50	1046	13.30	1142	16.20	1230	19.20		
9000	3095	606	5.15	746	8.61	867	12.30	975	16.00	1073	19.80	1165	23.60	1253	27.40	1335	31.30
12000	4127	712	8.80	834	13.20	939	17.80	1036	22.60	1127	27.40	1212	32.30	1291	37.30	1366	42.40
15000	5158	820	14.10	936	19.60	1031	25.10	1118	30.70	1199	36.60	1277	42.60	1351	48.60	1422	54.70
18000	6190	931	21.50	1044	28.10	1133	34.60	1213	41.20	1287	47.90	1358	54.70	1426	61.80	1491	68.90
21000	7221	1050	31.50	1152	39.10	1241	46.70	1316	54.40	1385	62.10	1451	69.80	1513	77.50	1574	85.50
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		7000	2407	1469	32.20												
11000	3783	1499	48.00	1634	57.50	1758	67.40	1873	77.60	1982	88.20	2085	98.90	2183	110.00	2277	121.00
15000	5158	1555	67.00	1678	79.70	1794	92.50	1906	105.00	2013	118.00	2116	131.00	2214	144.00	2306	157.00
19000	6534	1639	89.40	1755	105.00	1864	120.00	1968	136.00	2066	152.00	2160	168.00	2251	184.00	2341	200.00
23000	7909	1746	116.00	1851	134.00	1952	152.00	2049	171.00	2143	190.00	2234	208.00	2321	227.00		

Series 05 Type MH or TH Industrial Exhauster A05- -40_H100

Wheel Diameter – 40.0 in.
Outlet Area – 2.908 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1032	462	1.43	647	3.09												
6000	2063	515	3.06	678	5.68	809	8.45	924	11.40	1027	14.60	1123	17.90	1211	21.30	1294	24.80
9000	3095	593	5.81	741	9.39	862	13.20	968	17.20	1063	21.20	1150	25.30	1233	29.60	1311	34.00
12000	4127	686	10.10	818	14.80	932	19.50	1031	24.50	1121	29.60	1205	34.90	1283	40.20	1356	45.50
15000	5158	789	16.50	906	22.30	1011	28.20	1105	34.00	1191	40.00	1270	46.30	1344	52.70	1415	59.10
18000	6190	899	25.50	1004	32.50	1099	39.40	1186	46.50	1268	53.40	1344	60.40	1415	67.70	1482	75.10
21000	7221	1015	37.50	1108	45.70	1195	53.80	1275	61.90	1351	70.10	1423	78.30	1492	86.40	1557	94.50
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		7000	2407	1447	35.70	1584	43.90	1710	52.50	1828	61.40						
11000	3783	1477	51.60	1606	62.40	1726	73.60	1839	85.10	1947	96.90	2050	109.00	2148	121.00	2242	134.00
15000	5158	1546	72.20	1666	85.50	1778	98.80	1883	112.00	1985	127.00	2082	141.00	2175	156.00	2265	171.00
19000	6534	1631	97.10	1746	113.00	1854	130.00	1955	146.00	2052	163.00	2144	180.00	2232	197.00	2317	214.00
23000	7909	1729	128.00	1839	147.00	1942	166.00	2039	185.00	2132	205.00	2222	225.00	2307	245.00		

Series 05 Type PW Industrial Exhauster A05- -40_PW100

Wheel Diameter – 40.0 in.
Outlet Area – 2.908 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1032	479	1.54	666	3.29	810	5.24	932	7.38								
6000	2063	532	3.38	705	6.25	842	9.22	959	12.30	1064	15.60	1160	19.10	1249	22.60	1331	26.30
9000	3095	621	6.71	765	10.40	893	14.70	1006	18.90	1106	23.30	1198	27.70	1283	32.30	1363	36.90
12000	4127	729	12.20	854	17.00	963	21.90	1065	27.10	1161	32.80	1250	38.50	1332	44.20	1410	50.00
15000	5158	849	20.30	958	26.40	1056	32.50	1146	38.70	1230	44.80	1311	51.20	1389	58.20	1465	65.50
18000	6190	977	31.80	1071	39.20	1160	46.50	1242	53.70	1319	61.30	1392	68.60	1463	75.90	1531	83.50
21000	7221	1109	47.50	1192	55.90	1271	64.70	1347	73.10	1418	81.50	1486	90.20	1551	99.00	1614	107.00
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		7000	2407	1491	37.90	1628	46.60	1753	55.60	1871	65.00						
11000	3783	1537	56.30	1669	67.60	1791	79.30	1906	91.40								
15000	5158	1604	79.70	1732	94.00	1850	109.00										
19000	6534	1684	107.00	1806	125.00	1921	144.00										
23000	7909	1790	145.00	1900	164.00												

Series 05 Type PR Industrial Exhauster A05- -404PR100

Wheel Diameter – 40.0 in.
Outlet Area – 2.908 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7000	2407	1476	37.80	1614	46.60	1742	55.70	1862	65.20	1974	74.90	2080	84.90	2181	95.20		
11000	3783	1515	56.00	1644	67.20	1766	78.90	1880	90.90	1989	103.00	2093	116.00	2192	129.00	2287	142.00
15000	5158	1581	78.50	1708	93.00	1826	108.00	1935	123.00	2037	137.00	2134	153.00	2227	168.00	2318	184.00
19000	6534	1662	106.00	1780	123.00	1893	141.00	2000	159.00	2102	177.00	2199	196.00	2292	215.00		
23000	7909	1760	141.00	1873	161.00	1978	182.00	2079	202.00	2175	223.00	2268	245.00	2358	266.00		

Performance certified is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) excludes transmission losses. Performance data is based on standard air conditions (0.075 #/ft.³). Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings seal does not apply to type TH or PR wheel. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.



Size 45 Rating Table

Class II Class III Class IV

Series 05 Type AH Industrial Exhauster A05-_-45_AH100

Wheel Diameter – 45.125 in.
Outlet Area – 3.701 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4000	1081	418	1.74	583	3.68												
8000	2162	466	3.81	610	7.10	730	10.50	836	13.90	929	17.60	1014	21.40	1092	25.40	1165	29.40
12000	3242	550	7.12	671	11.70	776	16.50	871	21.40	956	26.50	1037	31.60	1114	36.70	1186	41.80
16000	4323	650	12.30	756	18.20	847	24.20	931	30.50	1010	37.00	1084	43.50	1154	50.10	1219	56.80
20000	5404	750	20.00	852	27.20	935	34.60	1010	42.00	1080	49.70	1148	57.60	1212	65.60	1274	73.70
24000	6485	854	30.60	954	39.40	1031	48.10	1101	56.90	1165	65.70	1226	74.70	1285	83.90	1342	93.40
28000	7566	967	45.10	1053	55.20	1132	65.40	1198	75.60	1258	85.80	1315	96.10	1370	106.00	1422	117.00
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		9000	2432	1303	41.30												
14000	3783	1329	61.00	1449	73.10	1558	85.80	1660	98.80	1757	112.00	1848	126.00	1935	140.00	2019	154.00
19000	5134	1378	84.90	1486	101.00	1589	117.00	1689	133.00	1784	149.00	1875	165.00	1962	182.00	2044	199.00
24000	6485	1450	113.00	1553	132.00	1650	152.00	1742	171.00	1829	192.00	1912	212.00	1994	233.00	2074	253.00
29000	7836	1542	146.00	1636	168.00	1726	192.00	1812	215.00	1896	239.00	1976	262.00	2054	286.00		

Series 05 Type MH or TH Industrial Exhauster A05-_-45_H100

Wheel Diameter – 45.125 in.
Outlet Area – 3.701 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4000	1081	411	1.89	574	4.07	702	6.49										
8000	2162	463	4.15	606	7.63	720	11.20	821	15.10	912	19.30	996	23.50	1074	28.00	1147	32.60
12000	3242	537	8.04	666	12.80	772	17.80	865	23.10	949	28.40	1026	33.80	1098	39.40	1166	45.20
16000	4323	625	14.20	740	20.40	839	26.70	926	33.20	1005	40.00	1078	46.90	1147	53.90	1211	61.00
20000	5404	722	23.50	823	31.20	914	39.00	996	46.70	1071	54.60	1141	62.80	1206	71.20	1267	79.80
24000	6485	826	36.40	916	45.70	998	54.90	1073	64.30	1144	73.70	1211	82.90	1273	92.40	1332	102.00
28000	7566	934	53.80	1014	64.80	1088	75.60	1158	86.30	1224	97.30	1287	108.00	1346	119.00	1403	130.00
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		9000	2432	1283	45.70	1404	56.30	1516	67.30	1621	78.60						
14000	3783	1309	65.70	1423	79.40	1530	93.60	1631	108.00	1726	123.00	1817	139.00	1904	154.00	1987	171.00
19000	5134	1369	91.40	1475	108.00	1575	125.00	1668	142.00	1758	160.00	1845	179.00	1928	197.00	2007	217.00
24000	6485	1443	122.00	1545	143.00	1641	164.00	1731	185.00	1817	206.00	1898	227.00	1976	249.00	2051	270.00
29000	7836	1527	160.00	1625	184.00	1717	208.00	1803	233.00	1886	258.00	1965	283.00	2041	308.00		

Series 05 Type PW Industrial Exhauster A05-_-45_PW100

Wheel Diameter – 45.125 in.
Outlet Area – 3.701 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4000	1081	427	2.05	591	4.33	719	6.88	827	9.66								
8000	2162	478	4.61	629	8.39	750	12.30	853	16.40	946	20.70	1031	25.20	1109	29.90	1182	34.70
12000	3242	563	9.34	688	14.30	799	19.80	898	25.50	987	31.20	1068	37.10	1143	43.10	1213	49.10
16000	4323	666	17.20	774	23.60	869	30.20	956	36.90	1039	44.30	1117	52.00	1190	59.50	1259	67.10
20000	5404	779	28.80	872	37.10	957	45.10	1035	53.40	1108	61.50	1178	69.90	1245	78.70	1311	88.30
24000	6485	899	45.60	980	55.40	1056	65.20	1127	74.80	1193	84.70	1257	94.60	1318	104.00	1377	114.00
28000	7566	1023	68.40	1093	79.60	1161	91.30	1226	103.00	1288	114.00	1347	125.00	1403	137.00	1458	148.00
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		9000	2432	1322	48.70	1443	59.80	1555	71.30	1659	83.30						
14000	3783	1363	71.70	1479	86.10	1588	101.00	1690	116.00								
19000	5134	1421	101.00	1534	119.00	1639	137.00										
24000	6485	1490	135.00	1598	158.00	1701	181.00										
29000	7836	1582	182.00	1679	205.00												

Series 05 Type PR Industrial Exhauster A05-_-454PR100

Wheel Diameter – 45.125 in.
Outlet Area – 3.701 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9000	2432	1309	48.50	1431	59.70	1545	71.40	1651	83.50	1750	95.90	1844	109.00	1933	122.00	2019	135.00
14000	3783	1343	71.20	1457	85.50	1565	100.00	1667	116.00	1763	131.00	1855	148.00	1943	164.00	2027	181.00
19000	5134	1400	99.40	1513	118.00	1617	136.00	1714	155.00	1804	174.00	1891	193.00	1973	213.00	2054	233.00
24000	6485	1470	134.00	1576	155.00	1676	178.00	1771	201.00	1861	224.00	1947	247.00	2029	271.00		
29000	7836	1555	177.00	1655	202.00	1749	228.00	1839	254.00	1924	281.00	2007	308.00	2087	335.00		

Performance certified is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) excludes transmission losses. Performance data is based on standard air conditions (0.075 #/ft.³). Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings seal does not apply to type TH or PR wheel. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.



Size 50 Rating Table

Class II Class III Class IV

Series 05 Type AH Industrial Exhauster A05-_-50_AH100

Wheel Diameter – 50.5 in.
Outlet Area – 4.635 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	1079	373	2.18	521	4.60												
10000	2157	416	4.76	545	8.87	652	13.10	747	17.40	830	22.00	906	26.80	976	31.70	1041	36.80
15000	3236	491	8.88	599	14.60	693	20.60	778	26.80	854	33.10	926	39.50	995	45.80	1060	52.20
20000	4315	580	15.40	674	22.70	756	30.20	832	38.10	902	46.20	968	54.30	1031	62.60	1089	71.00
25000	5394	669	24.90	761	34.00	834	43.10	902	52.40	965	62.00	1025	71.90	1082	82.00	1138	92.10
30000	6472	762	38.20	851	49.10	921	60.00	982	71.10	1040	82.00	1095	93.30	1147	105.00	1198	117.00
35000	7551	863	56.20	940	68.80	1011	81.50	1069	94.30	1123	107.00	1174	120.00	1223	133.00	1270	146.00
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		12000	2589	1166	54.30												
18000	3883	1189	78.60	1297	93.900	1394	110.00	1485	127.00	1571	144.00	1653	161.00	1731	179.00	1805	197.00
24000	5178	1233	107.00	1330	128.00	1421	148.00	1510	168.00	1595	189.00	1677	209.00	1754	230.00	1827	251.00
30000	6472	1295	141.00	1387	165.00	1474	189.00	1556	214.00	1634	240.00	1708	265.00	1781	291.00	1853	316.00
36000	7767	1374	180.00	1458	208.00	1538	237.00	1616	266.00	1691	296.00	1763	325.00	1832	355.00		

Series 05 Type MH or TH Industrial Exhauster A05-_-50_H100

Wheel Diameter – 50.5 in.
Outlet Area – 4.635 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	1079	367	2.37	513	5.09	627	8.12										
10000	2157	413	5.19	541	9.53	643	14.10	734	18.90	815	24.10	890	29.40	960	35.00	1025	40.70
15000	3236	479	10.00	595	15.90	690	22.30	773	28.80	848	35.50	916	42.20	981	49.20	1042	56.50
20000	4315	557	17.70	660	25.50	749	33.30	827	41.50	898	50.00	963	58.60	1024	67.40	1082	76.30
25000	5394	644	29.20	735	38.90	816	48.60	889	58.30	957	68.20	1019	78.50	1077	89.00	1132	99.70
30000	6472	737	45.40	817	57.00	890	68.60	958	80.30	1022	92.00	1081	104.00	1137	115.00	1190	128.00
35000	7551	834	67.10	905	80.80	972	94.30	1034	108.00	1093	121.00	1149	135.00	1202	149.00	1253	162.00
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		12000	2589	1147	60.00	1255	73.70	1355	88.00	1448	103.00	1536	118.00				
18000	3883	1173	84.40	1274	102.00	1369	120.00	1459	139.00	1543	158.00	1625	177.00	1702	197.00	1776	218.00
24000	5178	1225	116.00	1320	137.00	1409	158.00	1492	180.00	1573	202.00	1649	226.00	1723	249.00	1795	273.00
30000	6472	1288	153.00	1380	178.00	1465	204.00	1546	231.00	1623	257.00	1695	284.00	1765	311.00	1833	338.00
36000	7767	1361	198.00	1448	228.00	1530	258.00	1608	288.00	1682	319.00	1753	351.00	1821	382.00		

Series 05 Type PW Industrial Exhauster A05-_-50_PW100

Wheel Diameter – 50.5 in.
Outlet Area – 4.635 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	1079	381	2.56	528	5.42	642	8.60	739	12.10								
10000	2157	427	5.76	562	10.50	670	15.40	762	20.50	845	25.90	921	31.50	991	37.30	1057	43.30
15000	3236	503	11.70	615	17.80	714	24.70	803	31.80	882	39.00	954	46.30	1021	53.80	1084	61.40
20000	4315	594	21.40	691	29.50	776	37.70	854	46.00	928	55.30	998	64.90	1063	74.40	1124	83.90
25000	5394	695	35.90	779	46.30	854	56.30	924	66.70	990	76.80	1052	87.20	1112	98.30	1171	110.00
30000	6472	802	56.80	874	69.10	942	81.40	1006	93.30	1065	106.00	1122	118.00	1177	130.00	1229	143.00
35000	7551	912	85.20	976	99.20	1037	114.00	1095	128.00	1150	142.00	1202	156.00	1253	171.00	1301	185.00
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		12000	2589	1185	63.90	1293	78.40	1392	93.30	1485	109.00						
18000	3883	1221	92.30	1325	111.00	1422	129.00	1513	149.00								
24000	5178	1271	128.00	1373	150.00	1466	174.00										
30000	6472	1331	169.00	1428	198.00	1519	226.00										
36000	7767	1409	224.00	1496	254.00												

Series 05 Type PR Industrial Exhauster A05-_-504PR100

Wheel Diameter – 50.5 in.
Outlet Area – 4.635 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	2589	1171	63.70	1280	78.20	1381	93.30	1476	109.00	1564	125.00	1649	142.00	1729	159.00	1805	176.00
18000	3883	1204	91.70	1305	110.00	1401	129.00	1491	148.00	1577	168.00	1659	189.00	1738	210.00	1813	231.00
24000	5178	1253	126.00	1354	149.00	1447	172.00	1533	196.00	1614	220.00	1691	244.00	1765	269.00	1837	294.00
30000	6472	1313	167.00	1407	194.00	1497	222.00	1582	251.00	1663	280.00	1740	309.00	1813	339.00		
36000	7767	1386	219.00	1475	250.00	1559	282.00	1639	315.00	1716	348.00	1790	381.00				

Performance certified is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) excludes transmission losses. Performance data is based on standard air conditions (0.075 #/ft.³). Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings seal does not apply to type TH or PR wheel. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.



Size 57 Rating Table

Class II

Class III

Class IV

Series 05 Type AH Industrial Exhauster A05-_-57_AH100

Wheel Diameter – 57.5 in.
Outlet Area – 6.009 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1331	332	3.51	461	7.06	560	11.00										
14000	2330	374	6.85	485	12.50	576	18.50	659	24.40	732	30.60	798	37.00	859	43.70	916	50.60
20000	3328	438	12.10	531	19.70	613	27.70	687	35.90	753	44.30	816	52.80	875	61.20	932	69.70
26000	4327	510	20.00	593	29.50	665	39.30	731	49.60	793	60.10	851	70.60	906	81.40	957	92.30
32000	5325	583	31.30	663	43.00	728	54.70	788	66.60	843	79.00	897	91.70	947	105.00	996	117.00
38000	6324	658	46.80	736	60.70	798	74.50	853	88.40	904	102.00	953	117.00	999	132.00	1044	147.00
44000	7322	739	67.40	809	83.20	871	99.20	923	115.00	971	131.00	1016	148.00	1059	164.00	1101	180.00
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		15000	2496	1023	68.50												
22500	3744	1042	98.00	1136	118.00	1222	138.00	1302	159.00	1378	181.00	1450	203.00	1518	225.00	1584	248.00
30000	4993	1076	134.00	1162	159.00	1244	184.00	1323	210.00	1398	235.00	1470	261.00	1537	288.00	1602	315.00
37500	6241	1126	174.00	1208	205.00	1285	235.00	1358	267.00	1427	299.00	1494	331.00	1559	362.00	1622	394.00
45000	7489	1190	222.00	1266	257.00	1338	294.00	1407	330.00	1474	367.00						

Series 05 Type MH or TH Industrial Exhauster A05-_-57_H100

Wheel Diameter – 57.5 in.
Outlet Area – 6.009 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1331	329	3.76	452	7.74	551	12.20	636	17.00								
14000	2330	372	7.50	482	13.50	570	19.70	648	26.30	719	33.30	784	40.60	844	48.10	901	55.90
20000	3328	426	13.70	527	21.50	610	30.00	683	38.70	748	47.50	808	56.40	864	65.60	918	75.10
26000	4327	490	23.10	581	33.20	658	43.30	727	54.00	789	65.00	846	76.30	900	87.70	951	99.20
32000	5325	561	36.80	641	49.10	713	61.60	777	74.00	837	86.70	891	99.90	943	113.00	991	127.00
38000	6324	636	55.50	708	70.30	773	84.90	833	99.80	889	115.00	942	129.00	991	144.00	1038	160.00
44000	7322	714	80.30	778	97.50	838	114.00	893	131.00	946	149.00	996	166.00	1043	183.00	1088	200.00
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		15000	2496	1007	75.70	1102	93.20	1190	111.00	1272	130.00						
22500	3744	1026	106.00	1116	128.00	1200	151.00	1279	174.00	1354	199.00	1426	224.00	1494	249.00	1559	275.00
30000	4993	1069	144.00	1153	170.00	1231	197.00	1305	225.00	1376	254.00	1444	283.00	1510	313.00	1573	343.00
37500	6241	1121	189.00	1202	221.00	1278	254.00	1349	287.00	1416	320.00	1481	353.00	1542	387.00		
45000	7489	1181	243.00	1258	280.00	1331	318.00	1400	357.00	1466	396.00						

Series 05 Type PW Industrial Exhauster A05-_-57_PW100

Wheel Diameter – 57.5 in.
Outlet Area – 6.009 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		2"		4"		6"		8"		10"		12"		14"		16"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1331	342	4.12	469	8.31	568	13.00	653	18.00	727	23.30	795	28.90	858	34.80		
14000	2330	384	8.41	500	14.90	594	21.70	674	28.70	746	36.00	812	43.60	874	51.50	931	59.60
20000	3328	448	16.00	545	24.20	631	33.10	708	42.70	778	52.20	841	61.90	900	71.80	955	81.90
26000	4327	523	27.90	607	38.40	682	49.10	750	59.90	816	71.90	877	84.40	934	96.70	988	109.00
32000	5325	605	45.20	679	58.40	746	71.20	807	84.50	865	97.50	920	111.00	974	125.00	1025	141.00
38000	6324	691	69.40	756	85.10	816	100.00	873	116.00	926	131.00	977	147.00	1025	162.00	1072	178.00
44000	7322	781	102.00	838	119.00	892	138.00	944	156.00	994	173.00	1040	191.00	1086	210.00	1129	227.00
CFM	OV FPM	20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		15000	2496	1039	80.60	1134	98.90	1221	118.00	1303	138.00						
22500	3744	1068	115.00	1160	138.00	1245	162.00	1325	187.00								
30000	4993	1110	158.00	1199	187.00	1282	216.00										
37500	6241	1158	209.00	1245	245.00	1325	280.00										
45000	7489	1221	273.00	1299	311.00												

Series 05 Type PR Industrial Exhauster A05-_-574PR100

Wheel Diameter – 57.5 in.
Outlet Area – 6.009 sq. ft.

CFM	Outlet Velocity FPM	STATIC PRESSURE															
		20"		24"		28"		32"		36"		40"		44"		48"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15000	2496	1028	80.30	1124	98.80	1213	118.00	1296	138.00	1374	158.00	1448	179.00	1518	201.00	1585	223.00
22500	3744	1053	114.00	1143	137.00	1227	161.00	1307	186.00	1383	212.00	1455	238.00	1525	264.00	1591	292.00
30000	4993	1094	156.00	1183	185.00	1265	215.00	1340	245.00	1412	275.00	1479	305.00	1545	336.00	1609	368.00
37500	6241	1143	206.00	1226	240.00	1306	276.00	1381	312.00	1453	348.00	1520	385.00				
45000	7489	1203	268.00	1282	307.00	1357	348.00	1428	389.00								

Performance certified is for installation Type D: ducted inlet/ducted outlet. Power rating (BHP) excludes transmission losses. Performance data is based on standard air conditions (0.075 #/ft.³). Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings seal does not apply to type TH or PR wheel. MOST EFFICIENT FAN SELECTION APPEARS IN BOLD PRINT. To complete model code, add arrangement, class of construction, motor enclosure code, motor horsepower code and motor speed code. Refer to page 2 for more information.



Specifications

Series 05- Industrial Exhauster Centrifugal Fan (Belt Drive)

The belt drive Industrial Centrifugal Fan, Single Width, shall be manufactured by Hartzell Fan, Inc.®, Series 05, ARRG. 1, 4, 8, 9, 9M, or 10. Four wheel styles, air handling type (AH, 12" – 57"), material handling type (MH, 12" – 57"), trim handling type (TH, 12" – 57"), and paddle wheel type (PW, 12" – 57", PR, 29" – 57") are available. Rotation, as determined by the drive side of the fan, shall be clockwise or counter-clockwise. Fan housing, for sizes 12" through 29", shall be field rotatable and the discharge shall be any of the eight AMCA standard positions. Sizes 33" through 57" shall be a fixed construction for the rotation and discharge specified. The fan shall be packaged, completely assembled and ready to install (except ARRG. 1, which is less motor and drive).

The fan housing and base shall be a heavy gauge hot rolled steel suitable for temperatures up to 300° F., and with modifications up to 800° F. (ARRG. 10 is standard at 250° F. but is suitable for temperatures up to 600° F., and ARRG. 4 maximum temperature is 200° F.). The housing and wheels have continuous welds. The wheels shall be hot rolled steel with non-clogging and self-cleaning characteristics. The wheel shall be mounted to the fan shaft with a straight bore, keyway, and setscrews. The shafts shall be ground and polished. The fan bearings shall be heavy duty, self-aligning ball or roller type (depending on fan size, motor horsepower, and performance) and are relubricatable for continuous service. They shall have a minimum L10 life of 50,000 hours. The belts shall be an oil, heat, and static resistant type oversized for continuous duty.

The fan assembly shall be dynamically balanced at the Hartzell factory prior to shipping. Fans shall be balanced in accordance with AMCA Standard 204-96, fan application category BV-3 (comparable to Grade G6.3). Fans shall be manufactured in accordance with Hartzell's standard quality assurance procedures.

Fans shall be licensed to bear the AMCA Certified Air Performance Rating Seal. Type TH and PR are not AMCA Certified.

Series 05F- Flange Mount Industrial Exhauster Centrifugal Fan (Direct Drive)

The direct drive Industrial Centrifugal Fan, Flange Mounted Type, Single Width shall be manufactured by Hartzell Fan, Inc.®, Series 05F, ARRG. 4, Class II, III, or IV. Rotation, as determined by the drive side of the fan, shall be clockwise or counter-clockwise. Fan shall be field rotatable and the discharge shall be any of the eight AMCA standard positions by rotation of the entire fan. Standard sizes are 12" through 33". The fan shall be packaged, completely assembled and ready to install. Fan shall be used in vertical inlet installations only.

The fan housing and base shall be a heavy gauge commercial quality carbon steel suitable for temperatures up to 200° F. The housing and wheels shall be continuously welded in compliance with AWS D1.1 standard. The wheels shall be commercial quality carbon steel, mounted to the motor shaft by a straight bore. Lifting lugs shall be standard, for ease of handling and installation.

The fan assembly shall be dynamically balanced at the Hartzell factory prior to shipping. Fans shall be balanced in accordance with AMCA Standard 204-96, fan application category BV-3 (comparable to Grade G6.3). Fans shall be manufactured in accordance with Hartzell's standard quality assurance procedures.



Options and Accessories

Drain Pipe Coupling

A standard pipe coupling welded to housing at its lowest point; female pipe has threaded plug.

Access Door

For maintenance and clean-out of internal fan housing. Bolted and gasketed. A hinged, quick release type also available for Class I only.



Vibration Isolator

Rubber-in-shear or spring-type isolators are available.

Combination Drive Guard and Weather Cover

Covers motor and shaft sheaves as well as belts. Combines guarding of the drive as well as protection from the weather.



Arrangement 4



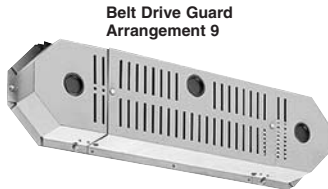
Arrangement 9

Drive Guards

Encloses the drive assembly while permitting circulation of ambient air. Standard features include: tach opening, belt tension openings and adjustable length.



Shaft Guard
Arrangement 9 or 1



Belt Drive Guard
Arrangement 9

Inlet and Outlet Guards

Spiral ring guard offers protection on inlet side and a wire mesh guard can be furnished for the outlet side.



Inlet Guard



Outlet Guard

Flanged Inlet and Outlet

Welded flanges. Drilled flanges can be furnished, if specified.

Ceramic Shaft Seal and Neoprene Slinger

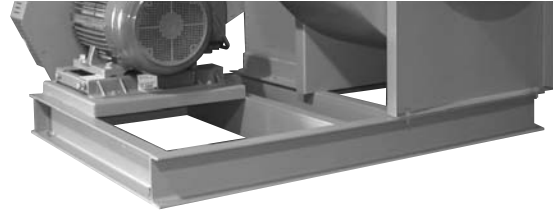
Shaft seal provides contaminants from the airstream passing through shaft hole in the housing. Seals are not gas tight. Required when stainless steel shaft and hardware are specified. For temperatures to 300°F.

Arrangements

Arrangement 8 and other arrangements not shown are available, (see page 4). Contact factory.

Arrangement 1 Sub-Base

Common structural support for Arrangement 1 fan and motor. Specify motor mounting position (See page 4).



Arrangement 9M Motor Base

Accommodates a larger frame size motor than the standard arrangement 9 base.



Heat Fan Accessories – Heat Slinger

Draws cool air over inboard bearing and reduces heat conduction from wheel through shaft. Heat slinger guard included.



Inlet Box

This special elbow accommodates improved inlet conditions for turning the air into the fan inlet using limited extra space.



Motor Heat Shield (Arr. 9 Fans)

Aluminum plate attached to base between fan scroll and motor assists in heat deflection and dissipation.

High Temperature Shaft Seal

Shaft seal encased between housing drive side and metal retaining plate. Required for temperatures from 300°F to 800°F.

CAUTION: The drive assembly or the periphery of the wheel of a fan less than seven (7) feet above the floor or working level must be guarded to be in accordance with OSHA regulations.



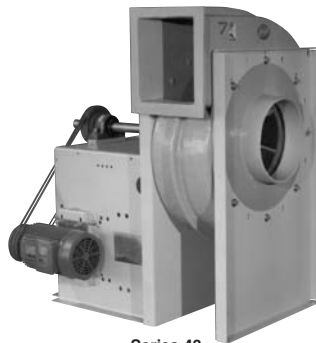
Corrosive Applications Protective Coatings

An epoxy coating is available for mildly corrosive atmospheres. The finish is chemical, moisture and abrasion resistant, providing a very tough and durable coating. Surfaces are phosphatized prior to coating. Finish air dries to 6 mils. Temperatures range up to 250°F.

Inorganic zinc coating is also available. This finish is a very hard coating with exceptional abrasion resistance. Offers excellent weathering characteristics and resistance to alcohols, solvents, and petroleum products. Also, resistant to temperatures up to 600°F. Surfaces are sandblasted prior to application. Finish air dries to 2 1/2 mil thickness.

Fiberglass Units

Where extreme corrosive fumes are encountered, Hartzell Fiberglass Radial Blowers, Series 43, give unsurpassed resistance to a wide variety of corrosive elements at a cost substantially below that of corrosive resistant metals. Size range of 16" to 33" wheel diameter. For complete details on Hartzell Fiberglass Radial Blowers, see Bulletin A-140.



Series 43
Arrangement 9

Spark Resistant Construction

For safely handling fumes and vapors, Hartzell offers three types of spark resistant construction. Types A, B, and C as outlined in AMCA Standard 99-0401-86.

Type A – All aluminum fan housing, inlet cone and wheel with a ground and polished steel shaft covered with an aluminum sleeve. Temperature limitation of 350°F, with high temperature construction. Material Code AA.

Type B – Aluminum wheel and aluminum wear plate where the shaft passes through the housing. Temperature limitation of 350°F, with high temperature construction. Material Code AB.

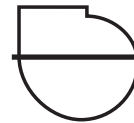
Type C – Aluminum inlet cone and aluminum wear plate where the shaft passes through the housing. Temperature limitation of 350°F, with high temperature construction. Material Code AC.

NOTES: No bearings, drive components, or electrical devices shall be placed in the air or gas stream.

The user shall electrically ground all fan parts.

The use of the above standard in no way implies a guarantee of safety for any level of spark resistance. Spark resistant construction also does not protect against any airstream material that may be present in a system which might cause ignition of explosive gases.

Split Housing



Type 1 – Available on top angular up, down blast, bottom horizontal, upblast, bottom angular down fans. Allows removal of section without disturbing inlet.



Type 2 – Available top horizontal, top angular down and bottom angular up fans. Allows removal of pie-shaped section without disturbing inlet or outlet.

Heavy-Duty Control Dampers Inlet Control Damper

Increases the efficiency of the blower and permits control of air volume.

Outlet Dampers

Dampers are mounted directly on the blower outlet to control the volume of air delivered to the system. Opposed and parallel blades are available constructed of standard gauge steel; and available with a variety of finishes.

Parallel Blade Type

Best suited for applications requiring accurate air volume in a range from wide open to 75% of wide open. Usually used for balancing the system or for modulated control when pressure drop is variable.

Opposed Blade Type

Best suited for control over a broad range of air volume with more precise control.

Both types of outlet control dampers are available in three classifications:

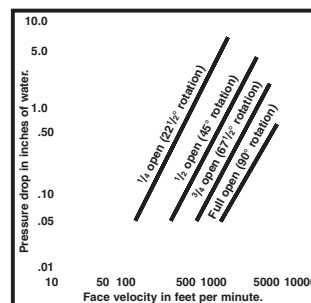
Classification:

Class I – Maximum static pressure: 5" SP
Maximum velocity: 3900 FPM

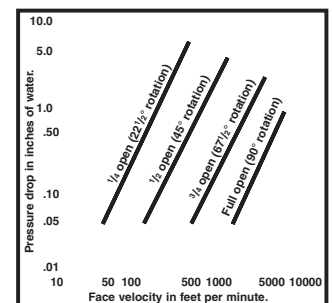
Class II – Maximum static pressure: 8-1/2" SP
Maximum velocity: 5100 FPM

Class III – Maximum static pressure: 20" SP
Maximum velocity: 6000 FPM

NOTE: Class III dampers must be used on installation with temperatures above 250°F.



Typical performance curve for parallel blade dampers.



Typical performance curve for opposed blade dampers.

SAFETY ACCESSORIES, APPLICATION AND USE WARNING

The safe application and use of equipment supplied by Hartzell Fan, Inc. is the responsibility of the installer, the user, the owner, and the employer. Since the application and use of its equipment can vary greatly, Hartzell Fan, Inc. offers various product types, optional safety accessories, and sound performance data per laboratory tests. Hartzell Fan, Inc. sells its equipment with and without safety accessories, and accordingly, it can supply such safety accessories only upon receipt of an order. The need for safety accessories will frequently depend upon the type of system, fan location and operating procedures being employed. The proper protective safety accessories to meet company standards, local codes, and the requirements of the Occupation Safety and Health Act must be determined by the user since safety requirements vary depending on the location and use of the equipment. If applicable local conditions, standards, codes or OSHA rules require the addition of the safety accessories, the user should specify and obtain the required safety accessories from Hartzell Fan, Inc. and should not allow the operation of the equipment without them.

Owners, employers, users and installers should read "RECOMMENDED SAFETY PRACTICES FOR USERS AND INSTALLERS OF INDUSTRIAL AND COMMERCIAL FANS" published by the Air Movement and Control Association International, Inc., 30 West University Drive, Arlington Heights, Illinois 60004. A copy of this publication is enclosed with each fan shipped from Hartzell Fan, Inc., and is available upon request at Hartzell's office in Piqua, Ohio 45356.

Please contact Hartzell Fan, Inc. or your local Hartzell representative for more information on product types, safety accessories, and sound performance estimates. Remember, the selection of safety accessories and the safe application and use of equipment supplied by Hartzell Fan, Inc. is **your** responsibility.



Hartzell Warranty

LIMITED WARRANTIES

Hartzell represents to Buyer that any goods to be delivered hereunder will be produced in compliance with the requirements of the Fair Labor Standards Act of 1938 as amended.

Hartzell also warrants to Buyer its goods to be free from defects in workmanship and material under normal use and service for one (1) year after tender of delivery by Hartzell, plus six months allowance for shipment to approved stocking dealers and distributors. No warranty extends to future performance of goods and any claims for breach of warranty or otherwise accrues upon tender of delivery. The foregoing constitute Hartzell's sole and exclusive warranties and are in lieu of all other warranties, whether written, oral, express, implied or statutory.

LIMITATION OF LIABILITY FOR BREACH OF WARRANTY

Hartzell's obligation for any breach of warranty is limited to repairing or replacing, at its option, without cost to Buyer at its factory any goods which shall, within such a warranty period, be returned to it with transportation charges prepaid, and which its examination shall disclose to its satisfaction to have been defective. Any request for repair or replacement should be directed to Hartzell Fan, Inc., P.O. Box 919, Piqua, Ohio 45356. Hartzell will not pay for any repairs made outside its factory without its prior written consent. This does not apply to any such Hartzell goods which have failed as a result of faulty installation or abuse, or incorrect electrical connections or alterations, made by others, or use under abnormal operating conditions or misapplication of the goods.

LIMITATION OF LIABILITY

To the extent the above limitation of liability for breach of warranty is not applicable, the liability of Hartzell on any claim of any kind, including negligence, for any loss or damage arising out of or connected with, or resulting from the sale and purchase of the goods or services covered by these Terms and Conditions of Sale or from the performance or breach of any contract pertaining to such sale or purchase or from the design manufacture, sale, delivery, resale, installation, technical direction installation, inspection repair, operation or use of any goods or services covered by these Terms and Conditions shall, in no case exceed the price allocable to the goods or services which gave rise to the claim and shall terminate one year after tender of delivery of said goods or services, plus six months allowance for shipment to approved stocking dealers and distributors. In no event will Hartzell be responsible or liable for any labor or other incidental costs associated with the removal or replacement of defective products or materials.

In no event whether as a result of breach of contract, or warranty or alleged negligence, defects, incorrect advice or other causes, shall Hartzell be liable for special or consequential damages, including, but not limited to, loss of profits or revenue, loss of use of the equipment or any associated equipment, cost of substitute equipment, facilities or services, down time costs, or claims of customers of the Buyer for such damages. Hartzell neither assumes nor authorizes any person to assume for it any other liability in connection with the sale of its goods or services.

NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS

HARTZELL DOES NOT WARRANT THAT SAID GOODS ARE OF MERCHANTABILITY QUALITY OR THAT THEY ARE FIT FOR ANY PARTICULAR PURPOSE. THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY AND THERE IS NO IMPLIED WARRANTY OF FITNESS.



Propeller Fans



Cooling Tower &
Heat Exchanger Fans



Duct Fans



Duct Axial Fans



Vaneaxial Blowers



Cool Blast & Utility Fans



Steel Centrifugal Blowers



Roof Ventilators –
Steel & Fiberglass



Heating Equipment –
Gas & Steam



Fiberglass
Axial Flow Fans



Fiberglass Centrifugal
Blowers



Marine –
Mine Duty Blowers

Hartzell Fan, Inc., Piqua, Ohio 45356 • Plants in Piqua, Ohio and Portland, Indiana.