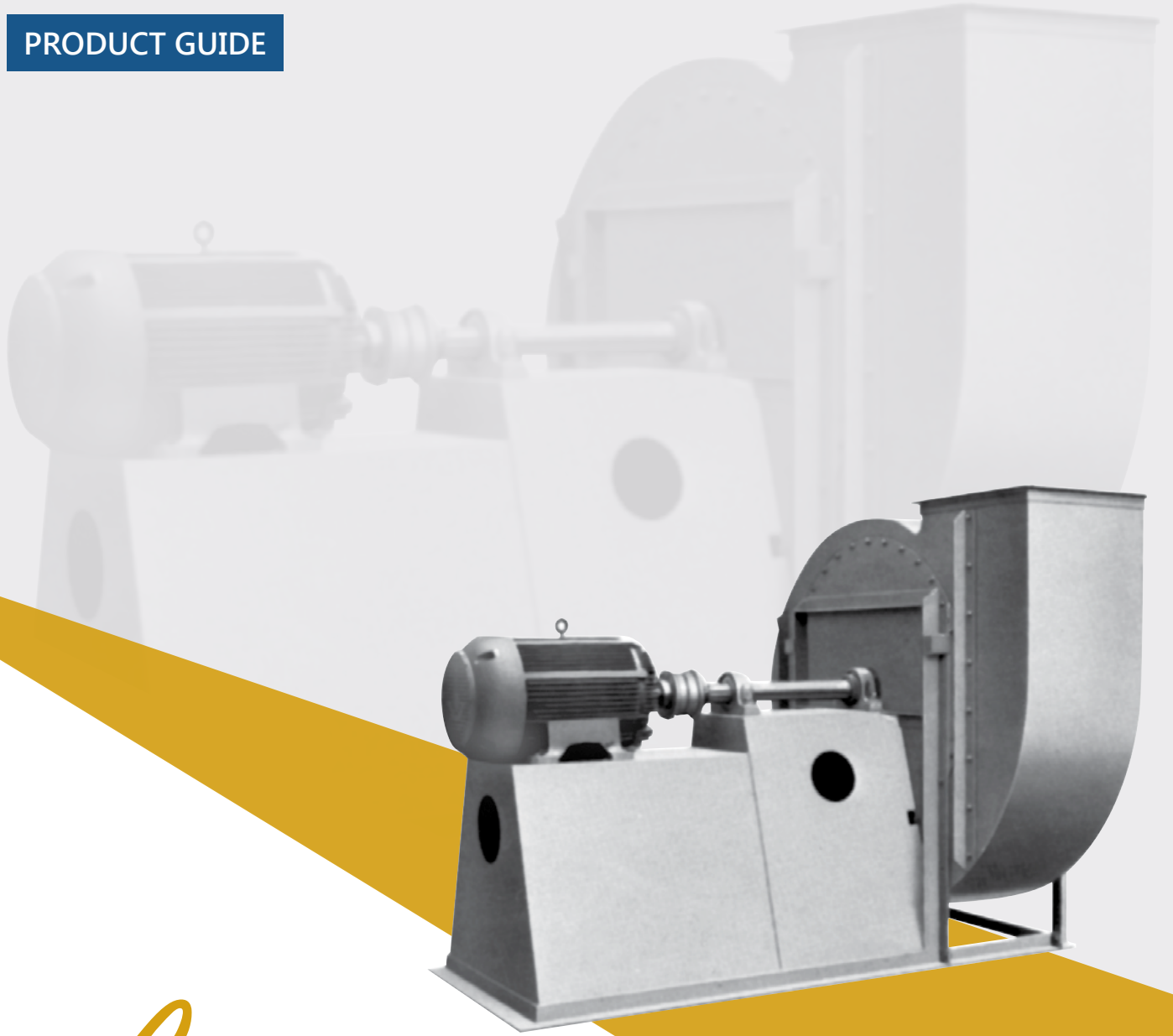


INDUSTRACON

Industrial Exhauster

PRODUCT GUIDE



PENNBARRY™

TABLE OF CONTENTS

INTRODUCTION	3
CERTIFICATIONS & LISTINGS	4
FEATURES & BENEFITS	5
OPTIONS & ACCESSORIES	6-7
WHEEL TYPES	8
ARRANGEMENTS	9
DIMENSIONS & FAN DATA SERIES 61, ARRANGEMENTS 1 AND 9	10-11
DIMENSIONS & FAN DATA SERIES 61, ARRANGEMENT 4	12
DIMENSIONS & FAN DATA SERIES 61, ARRANGEMENT 10	13-14
FAN SELECTIONS	15-17

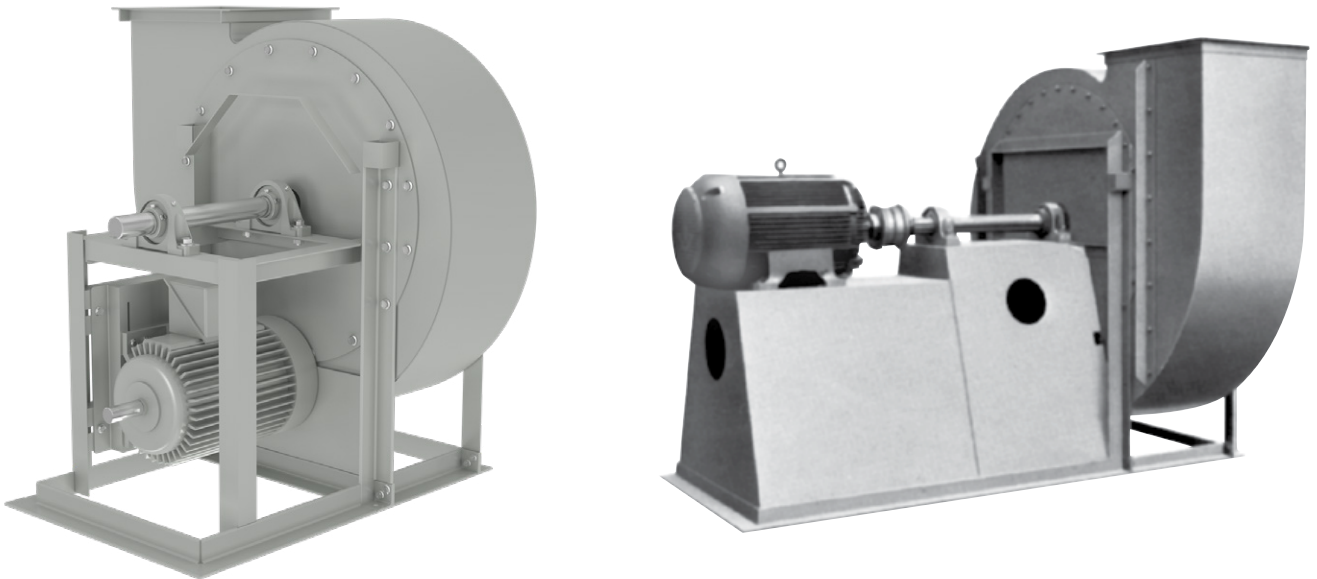
INTRODUCTION

IndustraCon Industrial Exhaust

The IndustraCon is a high quality fan for use in all types of industrial applications where you have high static pressures, such as paper mills, dust collectors, power plants, and woodworking plants.

The PennBarry Series 61 IndustraCon line of fans is the result of over 30 years of experience in designing and engineering high quality fans. The performance ratings shown are based on tests to AMCA Standard 210.

Trained PennBarry sales representatives are available to offer assistance in the proper selection and application of IndustraCon fans or other equipment in the complete line of PennBarry products.



IndustraCon

Model: IND

- Volumes up to 105,600 CFM.
- Available arrangements are 1, 4, 9, and 10.
- Inlet sizes up to 41" in diameter.
- Wheels up to 71 1/4".
- Static pressures up to 30" WG.

CERTIFICATIONS & LISTINGS



AMCA Certification

PennBarry certifies that the IND, Series 61 fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

FEATURES & BENEFITS

Housings

Housings, sizes 5-61 through 41-61, have heavy steel side sheets continuously welded to thick scrolls and bolted to angle iron supports for additional strength and straightness.

Air Volumes

PennBarry IndustaCon fans are capable of handling up to 105,600 CFM of air.

Static Pressures

PennBarry fans are capable of handling up to 30" WG.

Balanced/Tuned Fans

Fan wheels are dynamically balanced prior to assembly of the fans. Entire fan assemblies are then re-checked using an electronic analyzer. A final balance on the entire rotating assembly is then performed. Bearings are also checked for proper alignment.

Temperatures

IndustaCon units can withstand temperatures up to 1,000 °F.

Bearings

Bearings are selected for heavy-duty service with a design average fatigue life of 40,000 hours or more based on the maximum speed of the fan. Longer life bearings including 80,000; 120,000; and 200,000 hour selections are available options.

OPTIONS & ACCESSORIES

Variable Frequency Drives

Variable frequency drives (VFDs) are designed to meet performance requirements while increasing efficiency. By varying the fan motor input frequency and voltage, the VFD controls the motor speed and torque, helping to improve productivity and lower energy consumption. The VSC and VSA are ideal for both new and retrofit fan applications. Shipped loose and separately.

Safety Service Switch

Safety service switches are available to allow positive electrical shut-off and safety. NEMA 1 and 3R switches are factory mounted when factory wiring is requested; others will be shipped loose. Wiring is only run from the motor to the junction box. (Factory wiring of explosion proof applications is not available.) A wide range of NEMA rated enclosures with service switches are available for indoor, outdoor, and explosion proof installations. Service switches are to be field wired by a licensed electrician.

Coatings

Coatings such as Enamel, Airdry Epoxy, Airdry Phenolic Epoxy, and others are available. See the coatings brochure for details.

Split Housings

To facilitate handling, split housing construction is available on all fans, size 17-61 and larger. Scroll sections are bolted together and can be easily separated for cleaning or repair. Fans can be split vertically or horizontally.

Shaft Guard

Fabricated of expanded metal to cover top and sides of the shaft, the shaft guard protects the unit's shaft from external damage. It extends the entire length of the drive pedestal to cover the shaft, bearings and coupling, where used. Holes for greasing the bearings are provided.

Damper

Backdraft dampers are available for either gravity or motorized operation (motor kit optional).

Inlet Boxes

Inlet boxes are frequently requested for certain applications, and we offer inlet boxes for all fans size 11-61 and higher. Inlet boxes are designed to be aerodynamically efficient.

Stainless Steel Shaft

If another material is desired for the motor shaft, stainless steel shafts are available for selection.

Vibration Isolators, Hangers, and Rails

These items are available in both rubber-in-shear and spring type to mitigate residual vibration transmission. All isolators are properly sized to the unit.

Shaft Seals

A heat resistant ceramic fiber material is used for the typical shaft seal. Teflon shaft seals are also supplied.

Access Doors

Standard bolted types are available for inspection or when cleaning of the fan is necessary.

Flanged Inlets and Outlets

Where tight connections are required, continuously welded inlet and outlet flanges can be supplied in punched or unpunched varieties. Downblast or angular down discharges may require special outlet extensions.

Heat Fan Packages

IndustraCon fans with standard construction are suitable for operating temperatures to 300°F. Heat fan packages are available on these fans for temperatures of 500°F, 750°F and 1000°F. The 500°F package includes a shaft cooler and guard, a shaft seal, high temperature grease bearings and a motor heat shield on Arrangement 9 and 10. The 750°F package adds high temperature paint. For 1,000°F applications, consult your representative.

OPTIONS & ACCESSORIES

Drains

Drains are available on all fans except those with bottom horizontal or bottom angular down discharges. Drains are located at the lowest point of the scroll. Standard type is 3/4" NPT external threads.

Spark Resistant Construction

Fans may be supplied in accordance with AMCA standards as follows:

Type A - All the parts of the fan in contact with the air or gas being handled shall be made of non-ferrous material.

Type B - The fan shall have an entirely non-ferrous wheel and non-ferrous ring about the opening through which the shaft passes.

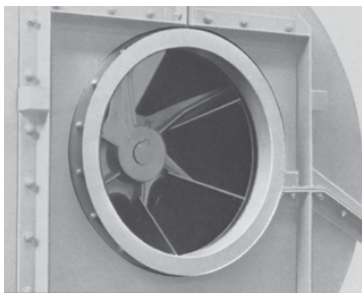
Type C - The fan shall be so constructed that a shift in the wheel or shaft will not permit two ferrous parts of the fan to rub or strike.

Inlet Bell and Screen

The inlet bell is required on fans where no duct is used on the fan inlet in order to meet catalogue performance. The screen, if supplied, is of woven wire mesh.

Belt Guards and Weather Covers

Belt guards for Arrangements 1, 9 and 10 are available and meet OSHA requirements. Weather covers enclosing the motor and drive assembly are available for Arrangement 10 fans.



Flanged Inlet/Outlet



Weather Cover

WHEEL TYPES

Wheel Materials

Standard wheel construction material is steel. They are also available in Type 304 and Type 316 stainless and in non-ferrous materials such as aluminum and monel.

Type OT

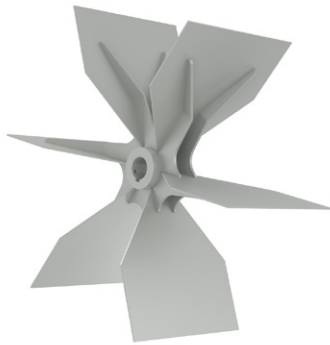
Its extremely rugged design is suitable for handling granular material. This style is available as OT-15, OT-15H, OT-17, or OT-20. Refer to page 13-14 for the maximum performance limits of these various types of OT wheels. These various types represent structural modifications.

Type WT

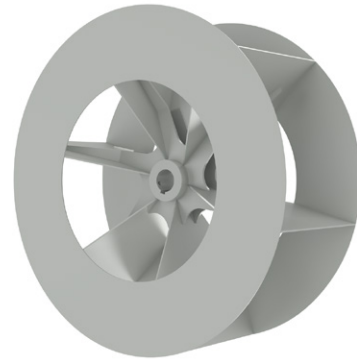
WT type wheels are offered for handling fibrous materials such as paper, wood shavings, and wool. This style is available as WT-15, WT-15H, or WT-17. Special modifications are also available, employing "cutter blades" where a chopping action is desirable.

Type AH

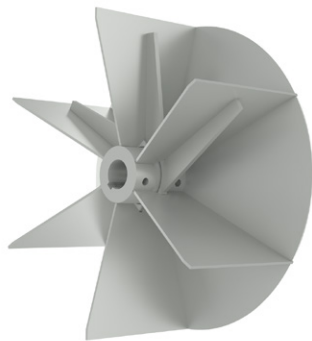
The type AH air handling wheel is designed for maximum efficiency in handling air containing light concentrations of abrasive material. This style is available as AH-15 and AH-17. In most applications of dust and fume removal, the high efficiency of the AH wheel will reduce operating cost over the OT and WT types of wheels.



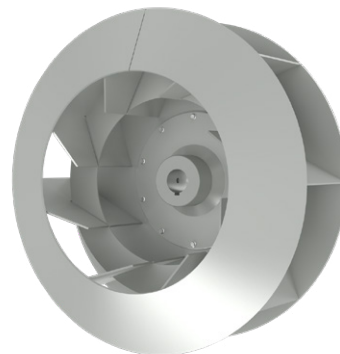
Type OT



Type OT (Reinforced)



Type WT



Type AH

ARRANGEMENTS

Arrangement 1

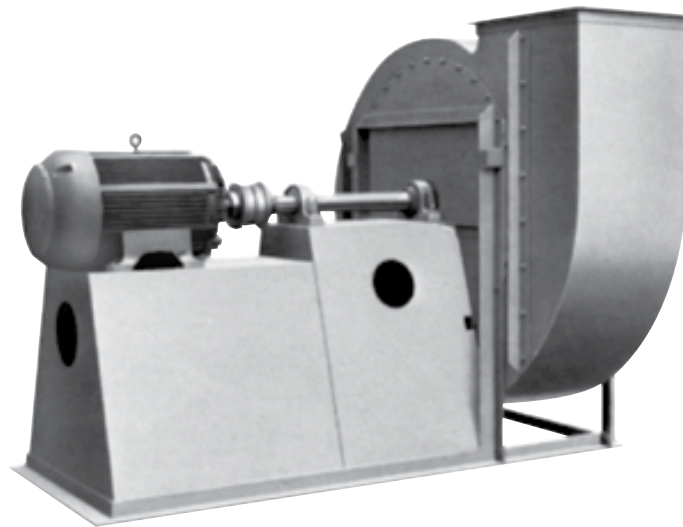
Arrangement 1 is most commonly used for general industrial or high temperature applications. The arrangement includes a housing, wheel, shaft and two bearings mounted on a heavy welded steel jack which is welded to the drive side angle supporting of the fan housing. The shaft is extended beyond the outer bearing to carry the drive sheave.

Arrangement 4

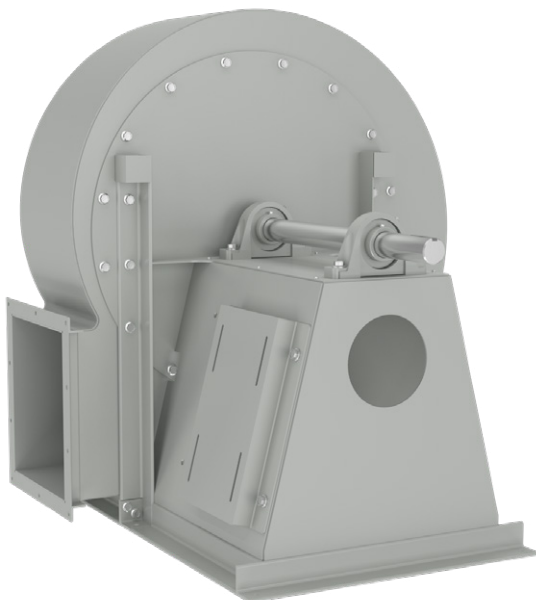
On Arrangement 4 fans the fan wheel is mounted directly on the motor shaft. There are no separate fan bearings so the motor bearings carry the full weight of the wheel.

Arrangement 9 & 10

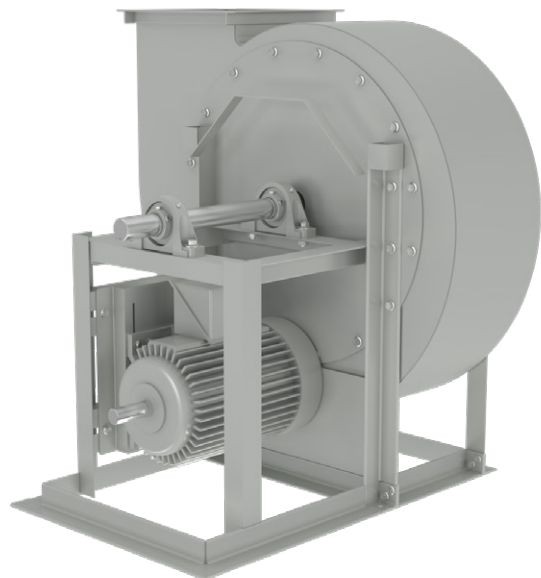
Arrangements 9 and 10 are basically Arrangement 1 with adjustable motor mountings attached to the side or within the bearing jack assembly. This "package" is normally provided with belt drive, motor and adjustable motor base and is provided for quick and easy installation in the application.



Arrangement 8

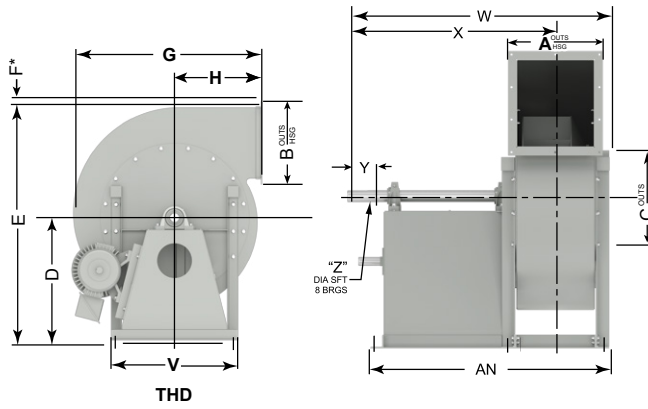


Arrangement 9

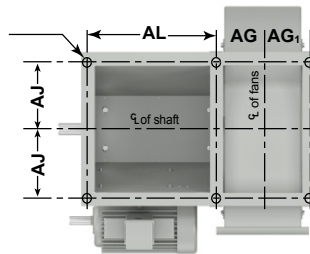


Arrangement 10

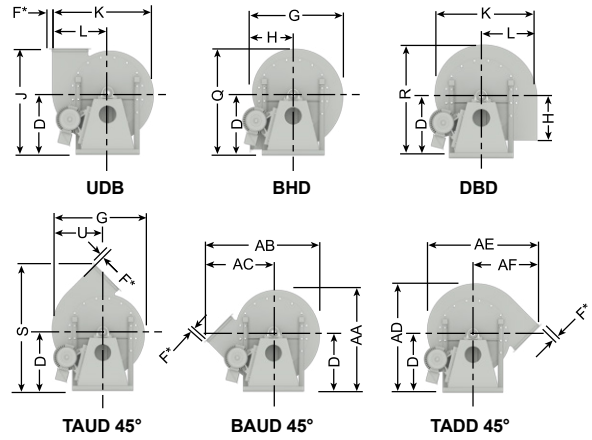
DIMENSIONS & FAN DATA | SERIES 61, ARRANGEMENTS 1 AND 9



7/16" Dia. Base Holes, 7-61 -- 9-61
 9/16" Dia. Base Holes, 11-61 -- 19-61
 13/16" Dia. Base Holes, 21-61 -- 41-61



Foundation Plan



Size	A	B	C	D**	E**	F	G	H	J**	K	L	Q**	R**	S**	T	U	V	Design 1				Design 2 †			
																		W	X	Max. Mtr. Frame ♦		W	X	Max. Mtr. Frame ♦	
																				ODP	TEFC			ODP	TEFC
7-61	6 1/8	6 13/16	7	14 1/4	24 13/16	—	19	9 5/16	23 9/16	19 5/16	10 9/16	23	23 15/16	28 9/16	18 5/16	10	14	25 3/8	20 11/16	145T	145T	30 3/8	25 11/16	215T	215T
9-61	7 3/4	8 5/8	9	15 1/4	28 3/4	—	23	10 5/8	25 7/8	24 11/16	13 1/2	26 7/16	27 5/8	32 1/4	23 1/2	12 7/8	17 1/2	27 1/2	22	145T	145T	37 3/8	31 7/8	256T	256T
11-61	9 7/16	10 9/16	11	18 3/4	35 3/16	—	28 1/16	13	31 3/4	30 1/8	16 7/16	32 7/16	33 13/16	39 5/8	28 3/4	15 7/8	19 3/4	33 7/8	26 15/16	184T	184T	41 1/4	34 5/16	256T	256T
13-61	11 1/4	12 7/16	13	21 3/4	41 3/16	—	33 3/16	15 3/8	37 1/8	35 5/8	19 7/16	37 15/16	39 9/16	46 3/8	34 5/8	18 23	23 36 7/8	29 1/16	215T	213T	45 5/8	37 13/16	286T	284T	
15-61	12 15/16	14 5/16	15	25 1/4	47 5/8	—	38 1/4	17 3/4	43	41	22 3/8	43 7/8	45 3/4	53 5/8	39 1/8	21 7/16	26 45 1/8	35 15/16	256T	254T	50 5/8	41 7/16	286T	286T	
17-61	14 5/8	16 3/8	17	28 1/4	53 11/16	—	43 7/16	20 1/8	48 3/8	46 5/8	25 7/16	49 7/16	51 9/16	60 1/2	44 1/2	24 3/8	29 1/4	48 3/4	38 3/4	284T	256T	54 3/4	44 3/4	326T	324T
19-61	16 1/4	18 3/16	19	31 1/4	59 9/16	—	48 3/8	22 7/16	53 11/16	51 7/8	28 5/16	54 13/16	57 3/16	67 1/8	49 3/4	27 1/8	31 54	43 1/8	326T	284T	58 1/4	47 3/8	365T	326T	
21-61	17 15/16	20 1/8	21	34 1/2	65 13/16	—	51 9/16	23	57 1/2	57 1.8	31 5/16	60 5/16	63 1/16	72 7/8	54 3/8	29 15/16	37 57 3/4	45 1/2	364T	286T	62 3/4	49 3/4	365T	365T	
23-61	19 5/8	22	23	37 1/2	71 13/16	—	57 1/4	26	63 1/2	62 1/2	34 5/16	65 11/16	68 3/4	79 7/8	59 7/16	32 13/16	40 61 1/8	48 1/16	365T	324T	63 7/8	50 13/16	365T	365T	
26-61	22 1/8	24 13/16	26	41 3/4	80 3/8	2 1/2	64 3/4	29	70 3/4	70 3/8	38 1/2	73 5/8	77	89 9/16	67 3/4	37 3/16	44 1/2	65 5/8	51 1/16	404T	364T	69 5/8	55 5/16	405T	404T
29-61	24 5/8	27 11/16	29	46 1/2	89 13/16	2 1/2	72 5/16	32 5/16	78 13/16	78 15/16	43 5/16	82 1/8	86	99 1/8	74 15/16	41 1/4	49 1/2	68 7/8	53 5/16	405T	365T	72 1/8	56 1/2	405T	404T
33-61	28	31 1/2	33	52 1/2	101 3/4	2 1/2	81 7/8	36 1/2	89	89 3/4	49 1/4	93	97 3/8	112 1/2	85 7/16	47 1/16	59 78 1/4	60	405T	404T	—	—	—	—	
37-61	31 1/2	35 3/16	37	58 1/2	113 5/8	2 1/2	91 1/2	40 3/4	99 1/4	100 1/2	55 1/8	103 7/8	108 3/4	126 1/16	95 5/8	52 11/16	60 83 7/16	63 5/16	405T	405T	—	—	—	—	
41-61	34 13/16	38 15/16	41	64 1/2	125 1/2	2 1/2	101 1/2	45 3/8	109 7/8	111 3/16	61	114 11/16	120 1/8	139 3/8	105 7/8	28 3/16	65 99	76 3/16	405T	405T	—	—	—	—	

DIMENSIONS & FAN DATA | SERIES 61, ARRANGEMENTS 1 AND 9

Size	Y	Z												AA**	AB	AC	AD**	AE	AF	AG	AG1	AJ	AL		AM**	AN	
		OT-15, AH-15, WT-15		OT-17, AH-17, WT-17		OT-20		WT-15H		OT-15H		Des. 1	Des. 2 †										Des. 1	Des. 2			
		SFT	KWY	SFT	KWY	SFT	KWY	SFT	KWY	SFT	KWY																
7-61	3 1/2	1 3/16	1/4 x1/8	—	—	—	—	1 3/8	1/4 x 1/8	1 3/16	1/4 x 1/8	22 9/16	23 5/16	14 1/16	24 1/4	23 5/16	14 1/16	4 1/16	4 1/16	6 3/8	13 3/4	18 3/4	7 3/4	23 1/8	28 1/8		
9-61	4	1 7/16	3/8 x3/16	1 7/16	3/8 x 3/16	—	—	1 7/16	3/8 x 3/16	1 7/16	3/8 x 3/16	25 7/8	28 3/4	17	28 1/8	28 3/4	17	4 7/8	4 7/8	8 1/8	13 3/4	23 5/8	8 3/4	24 3/4	34 5/8		
11-61	5	1 11/16	3/8 x 3/16	1 15/16	1/2 x 1/4	2 3/16	1/2 x 1/4	1 11/16	3/8 x 3/16	1 15/16	1/2 x1/4	31 3/4	35 1/4	20 7/8	34 1/2	35 7/8	20 1/16	6 1/16	6 1/16	9 1/16	16 1/2	23 7/8	6	30 3/8	37 3/4		
13-61	5	1 15/16	1/2 x 1/4	1 15/16	1/2 x 1/4	2 3/16	1/2 x1/4	1 15/16	1/2 x 1/4	2 3/16	1/2 x1/4	37 1/8	41 5/8	24 5/8	40 3/8	41 5/8	24 5/8	6 15/16	6.937	10 5/8	17 3/4	26 1/2	5 1/2	33 3/8	42 1/8		
15-61	6	1 15/16	1/2 x1/4	2 3/16	1/2 x 1/4	2 7/16	5/8 x 5/16	1 15/16	1/2 x1/4	2 7/16	5/8 x 5/16	42 15/16	47 15/16	28 3/8	46 11/16	47 15/16	28 3/8	8 1/16	8 1/16	11 7/8	22 1/2	28	3	40 7/8	46 3/8		
17-61	6	2 3/16	1/2 x 1/4	2 3/16	1/2 x 1/4	2 7/16	5/8 x 5/16	1 15/16	1/2 x 1/4	2 7/16	5/8 x 5/16	48 1/2	54 3/8	32 1/4	52 5/8	54 1/2	32 1/4	8 7/8	8 7/8	13 1/2	24 1/2	30 1/2	3	44 1/2	50 1/2		
19-61	7	2 3/16	1/2 x 1/4	2 7/16	5/8 x 5/16	2 7/16	5/8 x 5/16	2 7/16	5/8 x 5/16	2 11/16	5/8 x5/16	53 7/8	60 11/16	35 7/8	58 3/8	60 11/16	35 7/8	9 3/4	9 3/4	14 3/8	27	31 1/4	2	48 3/4	53		
21-61	7	2 7/16	5/8 x 5/16	2 11/16	5/8 x 5/16	2 15/16	3/4 x 3/8	2 7/16	5/8 x 5/16	2 15/16	3/4 x3/8	58 15/16	65 5/8	38 3/8	64 7/16	65 5/8	38 3/8	10 7/8	10 7/8	17 1/8	28 1/2	32 3/4	—	53	57 1/4		
23-61	7 1/2	2 11/16	5/8 x 5/16	2 15/16	3/4 x 3/8	3 7/16	7/8 x 7/16	2 11/16	5/8 x 5/16	2 15/16	3/4 x 3/8	64 1/4	72 1/16	42 3/8	70 5/16	72 1/16	42 3/8	11 7/16	11 11/16	18 5/8	30	32 3/4	—	55 7/8	58 5/8		
26-61	8	2 11/16	5/8 x 5/16	2 15/16	3/4 x 3/8	3 7/16	7/8 x 7/16	2 15/16	3/4 x 3/8	3 7/16	7/8 x 7/16	72 5/16	81 3/4	47 13/16	78 15/16	81 3/4	47 13/16	12 11/16	12 15/16	20 7/8	31	35 1/4	—	59 3/8	63 5/8		
29-61	8	2 15/16	3/4 x 3/8	3 7/16	7/8 x 7/16	3 15/16	1 x 1/2	3 7/16	7/8 x 7/16	3 15/16	1 x 1/2	80 3/16	90 1/8	52 5/8	87 3/4	90 1/8	52 5/8	13 15/16	14 3/16	23 3/8	32	35 1/4	—	62 7/8	66		
33-61	9	3 7/16	7/8 x 7/16	3 15/16	1 x 1/2	4 7/16	1 x 1/2	3 15/16	1 x 1/2	3 15/16	1 x 1/2	90 7/8	103	60 1/4	99 9/16	103	60 1/4	16 1/8	16 3/8	25 5/8	36	—	—	72 1/4	—		
37-61	9	3 15/16	1 x 1/2	3 15/16	1 x 1/2	4 7/16	1 x1/2	3 15/16	1 x1/2	4 7/16	1 x 1/2	101 7/16	115 5/16	67 9/16	111 3/16	115 5/16	67 9/16	17 7/8	18 1/4	28 5/8	37 9/16	—	—	77 7/16	—		
41-61	9	4 7/16	1 x1/2	4 7/16	1 x 1/2	4 15/16	1 1/4 x 5/8	4 7/16	1 x 1/2	4 15/16	1 1/4 x 5/8	112 3/16	127 7/8	74 7/8	122 11/16	127 7/8	74 7/8	20 1/16	20 7/16	31 1/8	48 3/4	—	—	94	—		

Dimensions in inches. CW rotation shown; CW rotation similar but opposite. On specific sales orders, see fan data schedule for performance and accessory information. On Arrangement No. 9, the standard motor position is left side for CW units and right side for CCW units.

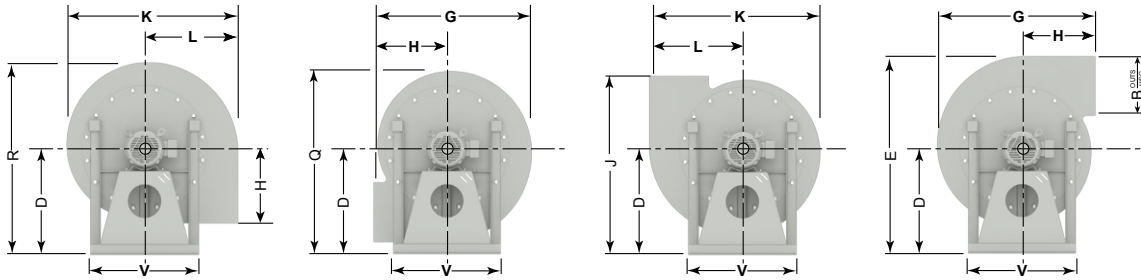
* Discharge angles standard on sizes 26-61 thru 41-61 only.

** On Design 2 fans, add dimension "AM" to centerline height. Dimensions affected are D, E, J, Q, R, S, AA, and AD.

† Design 2 employs a longer pedestal for larger motors.

♣ Maximum motor frame sizes shown refer only to Arrangement No. 9.

DIMENSIONS & FAN DATA | SERIES 61, ARRANGEMENT 4



CW rotation shown; CCW rotation similar but opposite.



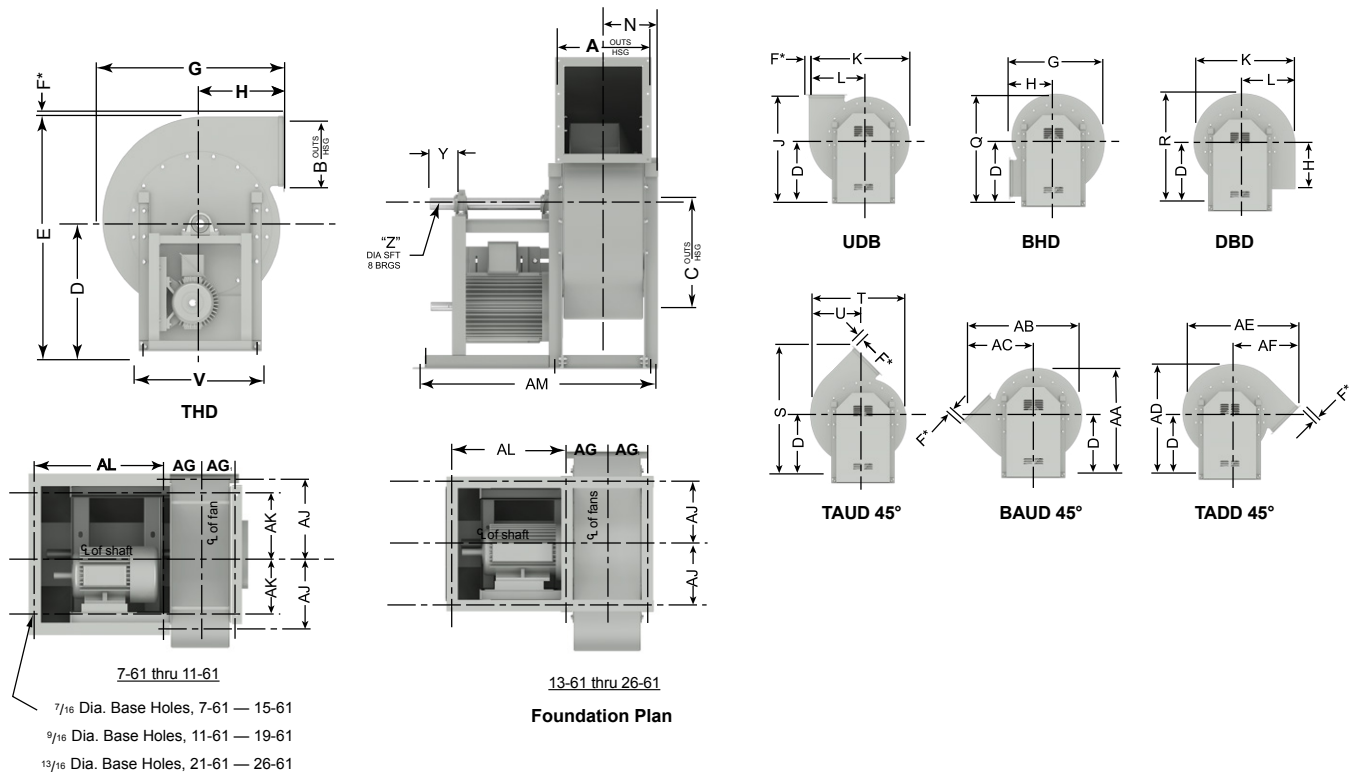
7/16 Dia. Base Holes, 7-61 — 9-61
 9/16 Dia. Base Holes, 11-61 — 19-61
 13/16 Dia. Base Holes, 21-61

Foundation Plan

Size	A	B	C	D	E	G	H	J	K	L	N	Q	R	V	AG	AJ	AL	AM	Max. Mtr. Frame	
																			ODP	TEFC
7-61	6 13/16	6 13/16	7	14 1/4	24 3/4	18 15/16	9 5/16	23 9/16	19 5/16	10 1/2	4 11/16	23	23 7/8	14	4 1/16	6 3/8	13 3/4	23 1/8	215T	215T
9-61	7 3/4	8 5/8	9	15 1/4	28 11/16	22 15/16	10 5/8	25 7/8	24 11/16	13 7/16	5 1/2	26 7/16	27 9/16	17 1/2	4 7/8	8 1/8	13 3/4	24 3/4	215T	215T
11-61	9 7/16	10 9/16	11	18 3/4	35 3/16	28 1/16	13	31 3/4	30 1/8	16 7/16	6 15/16	32 7/16	33 13/16	19 7/8	6 1/16	9 1/16	16 1/2	30 3/8	254T	254T
13-61	11 1/4	12 7/16	13	21 3/4	41 3/16	33 3/16	15 3/8	37 1/8	35 5/8	19 7/16	7 13/16	37 15/16	39 9/16	23	6 15/16	10 5/8	17 3/4	33 3/8	284T	284T
15-61	12 15/16	14 5/16	15	25 1/4	47 5/8	38 1/4	17 3/4	43	41	22 3/8	9 3/16	43 7/8	45 3/4	26	8 1/8	11 7/8	22 1/2	40 7/8	286T	286T
17-61	14 5/8	16 3/8	17	28 1/4	53 11/16	43 7/16	20 1/8	48 3/8	46 5/8	25 7/16	10	49 7/16	51 9/16	29 1/4	8 7/8	13 1/2	24 1/2	44 1/2	326T	326T
19-61	16 1/4	18 3/16	19	31 1/4	59 9/16	48 3/8	22 7/16	53 11/16	51 7/8	28 5/16	10 7/8	54 13/16	57 3/16	3 1	9 3/4	14 3/8	2 7	48 3/4	364T	364T
21-61	17 15/16	20 1/8	21	34 1/2	65 13/16	51 9/16	23	57 1/2	57 1/8	31 5/16	12 1/4	60 5/16	63 1/16	37	10 7/8	17 1/8	28 1/2	5 3	365T	365T

Dimensions in inches. Dimensions should not be used for construction. Certified drawings are available upon request.

DIMENSIONS & FAN DATA | SERIES 61, ARRANGEMENT 10



Size	A	B	C	D	E	F	G	H	J	K	L	N	Q	R	S	T	U	V	Y	"Z" OT-15, AH-15, WT-15		"Z" OT-17, AH-17, WT-17	
																				SFT	KWY	SFT	KWY
7-61	6 1/8	6 13/16	7	14 1/2	25 1/16	—	19	9 5/16	23 13/16	19 5/16	10 9/16	5 9/16	23 1/4	24 3/16	28 9/16	18 5/8	10	18 1/2	2 1/2	1 3/16	1/4 x 1/8	—	—
9-61	7 3/4	8 5/8	9	19 3/4	33 1/4	—	23	10 5/8	30 3/8	24 11/16	13 1/2	6 3/8	30 15/16	32 1/8	36 3/4	23 1/2	12 7/8	22 1/2	2 1/2	17/16	3/8 x 3/16	17/16	3/8 x 3/16
11-61	9 7/16	10 9/16	11	26	42 7/16	—	28 1/16	13	39	30 1/8	16 7/16	7 3/4	39 11/16	41 1/16	46 7/8	28 3/4	15 3/4	26	2 1/2	1 11/16	3/8 x 3/16	1 15/16	1/2 x 1/4
13-61	11 1/4	12 7/16	13	28	47 7/16	—	33 3/16	15 3/8	43 3/8	35 5/8	19 7/16	8 5/8	44 3/16	45 13/16	52 5/8	34	18 5/8	27 1/4	3	1 15/16	1/2 x 1/4	1 15/16	1/2 x 1/4
15-61	12 15/16	14 5/16	15	29	51 3/8	—	38 1/4	17 3/4	46 3/4	41	22 2/3	9 1/2	47 5/8	49 1/2	57 3/8	39 1/8	21 7/16	32 3/4	3 1/2	1 15/16	1/2 x 1/4	2 3/16	1/2 x 1/4
17-61	14 5/8	16 3/8	17	30 1/4	55 11/16	—	43 7/16	20 1/8	50 3/8	46 5/8	25 7/16	10	51 7/16	53 9/16	62 1/2	44 1/2	24 3/8	29 1/4	3 1/2	2 3/16	1/2 x 1/4	2 3/16	1/2 x 1/4
19-61	16 1/4	18 3/16	19	31 1/4	59 9/16	—	48 3/8	22 7/16	53 11/16	51 7/8	28 5/16	10 7/8	54 13/16	57 3/16	67 1/8	49 3/4	27 1/8	31	3 1/2	2 3/16	1/2 x 1/4	2 7/16	5/8 x 5/16
21-61	17 15/16	20 1/8	21	36 1/2	67 13/16	—	51 9/16	23	59 1/2	57 1/8	31 5/16	12 1/4	62 5/16	65 1/16	74 7/8	54 3/8	29 15/16	37	4 1/2	2 7/16	5/8 x 5/16	2 11/16	5/8 x 5/16
23-61	19 5/8	22	23	37 1/2	71 13/16	—	57 1/4	26	63 1/2	62 1/2	34 5/16	13 1/16	65 11/16	68 3/4	79 7/8	59 7/16	32 13/16	40	4 1/2	2 11/16	5/8 x 5/16	2 15/16	3/4 x 3/8
26-61	22 1/8	24 13/16	26	41 3/4	80 3/8	2 1/2	64 1/4	28 1/2	70 1/4	70 1/2	38 5/8	14 5/16	73 5/8	77	89 9/16	67 3/4	37 3/16	44 1/2	5	2 11/16	5/8 x 5/16	2 15/16	3/4 x 3/8

DIMENSIONS & FAN DATA | SERIES 61, ARRANGEMENT 10

Size	Z						AA	AB	AC	AD	AE	AF	AG	AG ⁺	AJ	AK	AL	AM	Max. Mtr. Frame	
	OT-20		WT-15H		OT-15H														ODP	TEFC
	SFT	KWY	SFT	KWY	SFT	KWY														
7-61	—	—	1 3/16	1/4 x 1/8	1 3/16	1/4 x 1/8	22 13/16	23 5/16	14 1/16	24 1/2	23 5/16	14 1/16	3 15/16	3 15/16	8 5/8	6 5/8	16 1/4	25 3/8	145T	145T
9-61	—	—	1 7/16	3/8 x 3/16	1 7/16	3/8 x 3/16	30 3/8	28 3/4	17	32 5/8	28 3/4	17	5	5	10 3/8	8	19 7/16	31 3/16	184T	184T
11-61	2 3/16	1/2 x 1/4	1 11/16	3/8 x 3/16	1 15/16	1/2 x 1/4	39	35 1/4	20 7/8	41 3/4	38 1/4	20 7/8	5 7/8	5 7/8	12 1/8	9 5/8	21	34 1/2	215T	213T
13-61	2 3/16	1/2 x 1/4	1 15/16	1/2 x 1/4	2 3/16	1/2 x 1/4	43 3/8	41 5/8	24 5/8	46 5/8	41 5/8	24 5/8	6 15/16	6 3/4	10 3/4	—	25 1/2	40 15/16	256T	254T
15-61	2 7/16	5/8 x 5/16	1 15/16	1/2 x 1/4	2 7/16	5/8 x 5/16	46 11/16	47 15/16	28 3/8	50 7/16	47 15/16	28 3/8	7 13/16	7 5/8	13 7/8	—	26	43 3/16	256T	254T
17-61	2 7/16	5/8 x 5/16	1 15/16	1/2 x 1/4	2 7/16	5/8 x 5/16	50 3/8	54 1/2	32 1/4	54 5/8	54 1/2	32 1/4	8 7/8	8 7/8	13 1/2	—	25	45	254T	215T
19-61	2 11/16	5/8 x 5/16	2 7/16	5/8 x 5/16	2 11/16	5/8 x 5/16	53 7/8	60 11/16	35 7/8	58 3/8	60 11/16	35 7/8	9 3/4	9 3/4	14 3/8	—	26	47 3/4	256T	254T
21-61	2 15/16	3/4 x 3/8	2 7/16	5/8 x 5/16	2 15/16	3/4 x 3/8	60 15/16	65 5/8	38 3/8	66 7/16	65 5/8	38 3/8	10 7/8	10 7/8	13 1/8	—	30	54 1/2	286T	284T
23-61	3 7/16	7/8 x 7/16	2 11/16	5/8 x 5/16	2 15/16	3/4 x 3/8	64 1/4	72 1/16	42 3/8	70 5/16	72 1/16	42 3/8	11 7/16	11 11/16	14 5/8	—	30	55 7/8	286T	284T
26-61	3 7/16	7/8 x 7/16	2 11/16	3/4 x 3/8	3 7/16	7/8 x 7/8	72 5/16	81 3/4	48 13/16	78 15/16	81 3/4	47 13/16	12 11/16	12 15/16	16 7/8	—	36	64 3/8	326T	324T

Dimensions in inches. CW rotation shown; CCW rotation similar but opposite.

Field rotatable to size 21-61. On specific sales orders, see Fan Data Schedule for performance and accessory information.

* Discharge angles standard on sizes 26-61 only. (Hole punching optional.)

FAN SELECTIONS

Model

IND = High Level Descriptor

Construction

<p>Tag <enter value></p> <p>Altitude <enter value></p> <p>Temperature (°F) <enter value></p> <p>Application Flow (CFM) <enter value></p> <p>Application Static Pressure (inwg) <enter value></p> <p>Application E = Exhaust / Relief S = Supply / Intake</p> <p>Crating Option 0 = Standard 1 = Premium 1 2 = Premium</p> <p>Unit Size 5-61 7-61 9-61 11-61 13-61</p>	<p>15-61 17-61 19-61 21-61 23-61 26-61 29-61 33-61 37-61 41-61</p> <p>Drive Type B = Belt D = Direct</p> <p>Fan RPM <####></p> <p>Arrangement 1 = Arr. 1 4 = Arr. 4 9 = Arr. 9 T = Arr. 10 X = Special Note: "H = Arr. 9 Max Access" is only by special quote</p> <p>Class / Wheel Type L = Class 15 Air handling M = Class 15 Radial blade N = Class 15 Material handling</p>	<p>Q = Class 15H Radial blade R = Class 15H Material handling S = Class 17 Air handling T = Class 17 Radial blade U = Class 17 Material handling W = Class 20 Radial blade</p> <p>Unit Material H = Steel S = 304 stainless steel U = 316 stainless steel X = Special</p> <p>Rotation/Discharge A = CCW BAD B = CCWBAU C = CCW BH D = CCW DB E = CCW TAD F = CCW TAU G = CCW TH H = CCW UB J = CW BAD K = CW BAU L = CW BH M = CW DB N = CW TAD P = CW TAU Q = CW TH R = CW UB</p>
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Motor

<p>Motors and Drives F = Factory supplied L = Less motor, less drive N = Customer supplied motor, factory mounted* X = Special</p> <p>Motor Position 0 = None W = AMCA motor position W w/ unitary base X = AMCA motor position X w/ unitary base Y = AMCA motor position Y w/ unitary base Z = AMCA motor position Z w/ unitary base L = Left</p>	<p>R = Right</p> <p>Motor Enclosure 0 = None 2 = TE w/o Overload 4 = ODP w/o Overload 5 = EXP C2D1 6 = Severe Duty 7 = TE w/ SGR X = Special</p> <p>Efficiency P = Premium S = Standard</p> <p>Horsepower 0.250 = 1/4 0.333 = 1/3</p>	<p>0.500 = 1/2 0.750 = 3/4 01.00 = 1 01.50 = 1 1/2 02.00 = 2 03.00 = 3 05.00 = 5 07.50 = 7 1/2 10.00 = 10 15.00 = 15 20.00 = 20 25.00 = 25 30.00 = 30 40.00 = 40 50.00 = 50 60.00 = 60 75.00 = 75 100.0 = 100</p>
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FAN SELECTIONS

Motor

125.0 = 125
 150.0 = 150
 200.0 = 200
 250.0 = 250
 300.0 = 300
 350.0 = 350
 400.0 = 400
 450.0 = 450
 X = Special

Voltage/Phase/Cycle

B = 110V/1PH/50HZ*
 C = 115V/1PH/60HZ
 D=120V/1PH/60HZ*
 F = 208V/1PH/60HZ
 G = 208V/3PH/60HZ
 H = 220V/1PH/50HZ*
 J = 220V/3PH/50HZ*
 K = 230V/1PH/60HZ
 L = 230V/3PH/60HZ
 M = 240V/1PH/50HZ*
 N = 240V/3PH/50HZ*
 P = 277V/1PH/60HZ*#
 Q = 380V/3PH/50HZ*
 R = 380V/3PH/60HZ*

S = 400V/3PH/50HZ*
 T = 415V/3PH/50HZ*
 U = 440V/3PH/50HZ*
 V = 460V/3PH/60HZ
 W = 480V/3PH/60HZ*
 X = Special
 Y = 575V/3PH/60HZ
 Z=600V/3PH/60HZ*
 * Non-standard offering subject to longer lead times and price adjustment
 # 277V applications require a transformer

Motor Frame

FS = Factory Supplied
 01 = 48
 02 = 56
 05 = 143T
 06 = 145T
 07 = 182T
 08 = 184T
 09 = 213T
 10 = 215T
 11 = 254T
 12 = 256T
 13 = 284T

14 = 286T
 15 = 324T
 16 = 326T
 17 = 364T
 18 = 365T
 19 = 404T
 20 = 405T
 21 = 444T
 22 = 445T
 23 = 447T
 24 = 449T
 25 = 5010T
 X = Special

Motor Pole

0 = None
 1 = 1800 4 pole motor
 2 = 3600 2 pole motor
 3 = 3000 2 pole motor
 4 = 1500 4 pole motor
 5 = 1200 6 pole motor
 6 = 1000 6 pole motor
 X = Special

Electrical Accessories

Controllers

0 = None
 7 = Provided by others
 V = VFD
 Note: VFD can be ordered separately

Service Switches and ITW*

0 = None
 1 = NEMA 1 ITW only
 3 = NEMA 3R/4 ITW only
 A = NEMA 1 - loose
 C = NEMA 1 - mounted and wired
 D = NEMA 3R - loose
 F = NEMA 3R - mounted and wired

K = NEMA 4X - loose
 M = NEMA 4X - mounted and wired
 N = NEMA 7 - loose
 Q = NEMA 9 - loose
 X = Special
 * ITW - Internal wiring not provided on explosion proof motors

Options and Accessories

Bearings

0 = None
 A = 40K
 B = 80K
 C = 200K
 H = 120K
 X = Special

Drive Kit Option

0 = None
 A = Adjustable drive kit
 C = Constant drive kit
 L = Life safety
 X = Special

Paint/Coating

0 = None
 A = Standard Enamel
 B = Airdry Epoxy
 E = Airdry Phenolic
 R = High Temp Black
 X = Special
 * Colors only available in Standard Enamel

Paint Color*

00 = None
 01 = Standard color (gray)
 50 = Chrome green

55 = Pale green
 56 = Dove gray (PPC standard)
 61 = White
 63 = Oxford beige
 65 = Dover white
 66 = Desert tan
 70 = Black
 73 = Smoke gray
 77 = Brick red
 79 = Peppercorn
 81 = Pale brown
 83 = Chocolate brown
 85 = Timeless bronze
 94 = Charcoal

FAN SELECTIONS

Options and Accessories

X = Special

* Colors only available for polyester powder coat

Special Construction

0 = None

B = Spark resistance (AMCA B)

C = Spark resistance (AMCA C)

L = Spark Resistance (AMCA A)

X = Special

Construction Accessories

0 = None

1 = Access door bolted

3 = Access door bolted plus drain w/ plug

9 = Drain 3/4" NPT w/ plug

Special Construction 2

0 = None

F = Flanged split housing

W = Wheel reinforcement

Y = Wheel reinforcement and flanged split housing

X = Special

Weather/Motor Cover

0 = None

B = Belt guard

C = Weather/motor cover

S = Shaft guard

T = Shaft and belt guards

U = Shaft guard and weather cover

Damper

0 = None

D = Damper

Cones, Bells, and Inlet Box

0 = None

D = Inlet bell

F = Inlet box at 0 degrees

G = Inlet box at 45 degrees

H = Inlet box at 90 degrees

J = Inlet box at 135 degrees

K = Inlet box at 180 degrees

L = Inlet box at 225 degrees

M = Inlet box at 270 degrees

N = Inlet box at 315 degrees

X = Special

Stainless Steel

0 = None

S = 304SS Shaft

U = 316SS Shaft

X = Special

Vibration Isolators

0 = None

1 = Rubber in shear floor

4 = Unhoused spring floor

5 = Housed spring floor

X = Special

Flange/Companion Flange Kit

0 = None

A = Punched inlet flange

B = Punched outlet flange

C = Punched inlet and outlet flanges

D = Continuously welded punched inlet flange

E = Continuously welded punched outlet flange

F = Continuously welded punched inlet and outlet flanges

G = Punched companion inlet flange kit*

H = Punched companion outlet flange kit*

J = Punched companion inlet and outlet flange kit*

K = Continuously welded punched companion inlet flange kit*

L = Continuously welded punched companion outlet flange kit*

M = Continuously welded punched companion inlet and outlet flange kit*

N = Unpunched inlet flange

P = Unpunched outlet flange

Q = Unpunched inlet and outlet flanges

R = Continuously welded unpunched inlet flange

S = Continuously welded unpunched outlet flange

T = Continuously welded unpunched inlet and outlet flanges

Special Applications

0 = None

9 = 750F Heat fan package

F = 500°F Heat fan package

X = Special

Shaft Seal

0 = None

C = Ceramic

T = Teflon

PENNBARRY PRODUCT SOLUTIONS



Commercial

- Roof & wall exhaust centrifugal fans
- Ceiling, wall, & inline centrifugal fans
- Roof supply centrifugal fans
- Square & round centrifugal fans
- Wall mounted axial fans
- Hooded roof axial fans
- Upblast roof axial fans
- Gravity ventilators
- Roof curbs



Industrial

- Freestanding centrifugal fans
- Industrial & material handling fans
- Tubular centrifugal inline fans
- Mixed flow centrifugal fans
- Plug & plenum fans
- Wall mounted propeller fans
- Tube axial fans
- Vane axial fans
- Bifurcator fans
- Lab exhaust



Kitchen ventilation

- Make-up air units
- Exhaust fans



Energy recovery

- Outdoor units
- Indoor units

PennBarry is proud to be your preferred manufacturer of commercial and industrial fans and blowers. Learn how PennBarry can assist you in your next application by contacting your PennBarry Representative or visiting us on the web at www.pennbarry.com

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