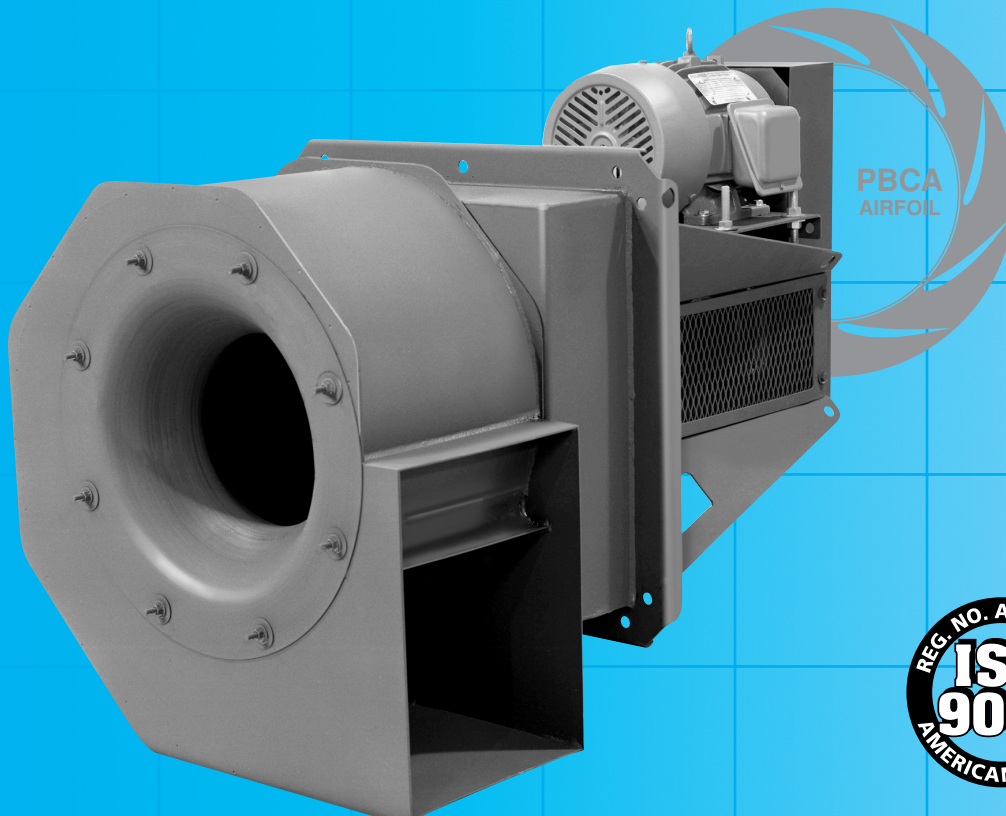
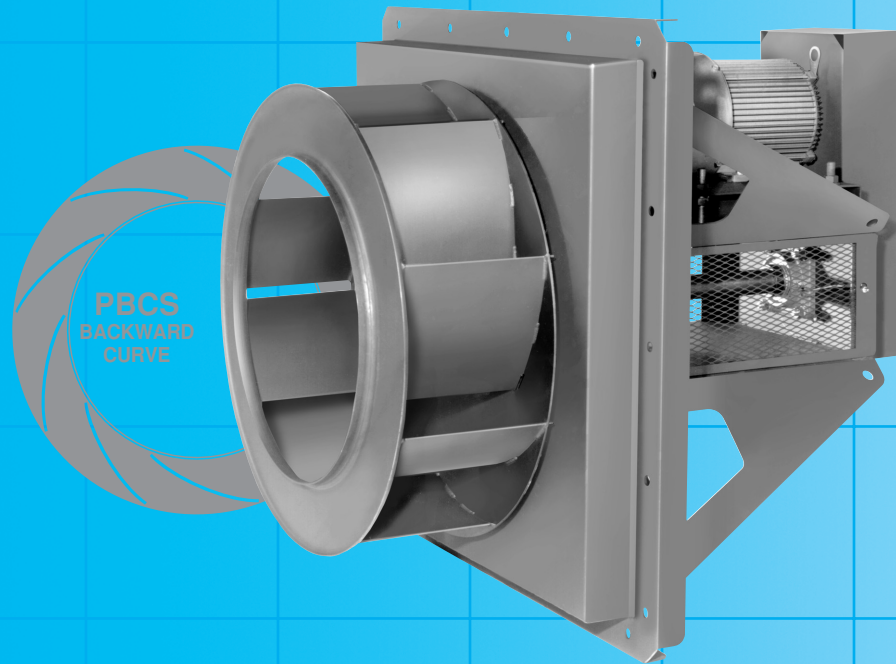




Bulletin PBCS1201

JANUARY 2001

SINGLE WIDTH SINGLE INLET
12¹/₄" THROUGH
54¹/₄" DIAMETER
HIGH TEMPERATURE
CONSTRUCTION
UP TO 1000°F



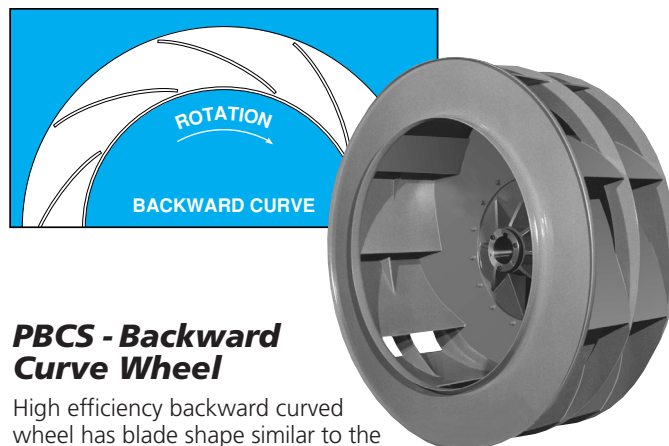
BACKWARDLY INCLINED PLUG FANS

WHEELS



PBCA - Airfoil Wheel

High efficiency backwardly inclined airfoil bladed wheel designed for clean, dry air applications. BCA wheels exhibit non-overloading horsepower characteristics and stable performance over the entire pressure curve. Noise levels are lowest in the peak efficiency range of the performance curve. Class 3 wheels utilize internal blade stiffeners for higher tip speed and temperature capability.



PBCS - Backward Curve Wheel

High efficiency backward curved wheel has blade shape similar to the convex shape of the BCA airfoil wheel. This shape provides nearly identical performance characteristics at a given speed at a slightly lower efficiency. BCS wheels also exhibit the same non-overloading horsepower characteristics and stable performance over the entire pressure curve. BCS wheels should be specified in moist or lightly contaminated air systems. Noise levels are lowest in the peak efficiency range of the performance curve. Class 3 wheels utilize a circumferential blade stiffener for higher tip speed and temperature capability.

BEARINGS



200 Series normal duty ball bearings used on class 1 and 2 on sizes 122 through 445. Eccentric cam locking collars hold the bearings securely to the shaft and further tightens with bearing rotation. Bearings are grease relubricable with steel-clad lip seals. Sizes 2-7/16" diameter and larger feature spring locking collars.



300 Series heavy duty ball bearings used on class 3 on sizes 122 through 365. The spring locking collar design provides a secure grip of the wide inner ring bearing to the shaft. Bearings are grease relubricable with molded rubber seals.



22400 Series heavy duty double row spherical roller bearings used on class 1 and 2 on sizes 490 through 542 and on class 3 on sizes 402 through 542. The spring locking collar design provides a secure grip of the wide inner ring bearing to the shaft. Bearings are grease relubricable with floating labyrinth seals which feature multiple self-centering rings held securely in a steel carrier.

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QUALITY ASSURANCE

American Fan Company's Quality Management System is certified to ISO-9001 standards (Registration Number AQC-19201).



FEATURES

- 16 fan sizes, 12¹/₄" thru 54¹/₄" diameter wheels
- Class 1, 2, or 3 construction
- Capacity selections to 90,000 CFM, Pressure selections to 12" SP w.g.
- High efficiency, non overloading backward inclined curved or airfoil bladed wheels
- Close tolerance 1045 turned, ground, and polished shafting
- Heavy-duty four-bolt grease lubricated flange mounted ball or roller bearings
- Available with continuously welded insulated plug for high or low temperature applications
- Available with and without fan housing
- Vertical or horizontal mounting- Bolt on or weld in place
- Spun steel inlet venturi for smooth, efficient airflow



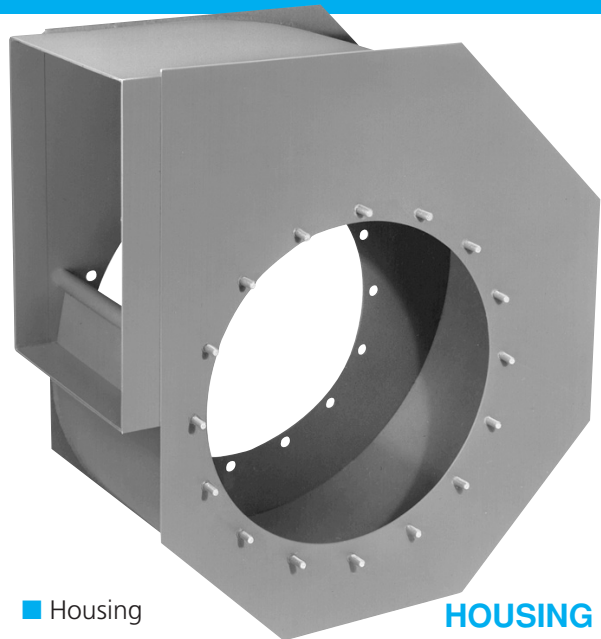
INLET VENTURI
(Standard Equipment)

OPTIONS



HEAT SLINGER

- Insulated plug 2", 3", or 4" thick. For 6" thick insulated Plug, contact factory.
- Adjustable motor base
- High temperature construction up to 1000° F
- Shaft seal



HOUSING

- Housing
- Drive guards
- Inlet venturi screen
- Venturi support frame

TYPICAL APPLICATIONS

- | | | | |
|----------------------|----------------|----------------|-----------|
| ■ Ovens | ■ Dryers | ■ Air curtains | ■ Plenums |
| ■ Freezers | ■ Spray booths | ■ Panel walls | ■ Kilns |
| ■ Floors or Ceilings | | | |

CONSTRUCTION MATERIALS

Fan Size	Plug Panel Ga.	Bearing support Ga.	Bearing plates Ga.	Insulated Plug Ga.	Motor Plate Ga.	Inlet Venturi Ga.	Hsg. Side Ga.	Hsg. Scroll Ga.	Wheel Spinning Ga.	CLASS 1 AND 2				CLASS 3					
										BCS Blade	BCA Blade	Wheel Bkplt.	Shaft Dia.	Bearings	BCS Blade	BCA Blade	Wheel Bkplt.	Shaft Dia.	Bearings
122	12	12	10	14	7	14	10	12	14	14	-	12	1 1/16	F3-Y223N	12	-	10	1 1/16	FU-327
135	12	12	10	14	7	14	10	12	14	14	-	12	1 1/16	F3-Y223N	12	-	10	1 1/16	FU-327
150	10	10	10	14	7	14	10	12	14	14	-	12	1 1/16	F3-Y223N	12	-	10	1 1/16	FU-327
165	10	10	10	12	7	14	10	10	12	14	-	12	1 1/16	F3-Y227N	12	-	10	1 1/16	FU-331
182	10	10	10	12	7	12	10	10	12	12	18	12	1 1/16	F3-Y227N	10	18	10	1 1/16	FU-331
200	10	10	10	12	7	12	10	10	12	12	18	12	1 1/16	F3-Y227N	10	18	10	1 1/16	FU-331
222	7	7	7	10	7	12	10	10	12	12	18	10	1 1/16	F3-Y231N	10	18	7	2 3/16	FU-335
245	7	7	7	10	7	12	10	10	10	10	16	10	1 1/16	F3-Y231N	7	16	7	2 3/16	FU-335
270	7	7	7	10	7	12	10	10	10	10	16	10	1 1/16	F3-Y231N	7	16	7	2 3/16	FU-335
300	7	7	7	10	7	12	10	10	10	10	16	7	2 3/16	F3-Y235N	7	16	1/4	2 7/16	FU-339
330	7	7	7	10	7	12	7	7	7	10	16	7	2 3/16	F3-Y235N	7	16	1/4	2 7/16	FU-339
365	7	7	7	10	7	12	7	7	7	10	16	7	2 3/16	F3-Y235N	7	16	1/4	2 7/16	FU-339
402	1/4	1/4	1/4	10	7	12	7	7	7	10	16	7	2 7/16	F3-Y239N	7	16	1/4	2 11/16	F-B22443H
445	1/4	1/4	1/4	10	7	12	7	7	7	10	16	7	2 7/16	F3-Y239N	7	16	1/4	2 11/16	F-B22443H
490	1/4	1/4	1/4	7	7	10	7	7	1/4	7	14	1/4	2 7/16	F-B22447H	1/4	14	5/16	3 3/16	F-B22451H
542	1/4	1/4	1/4	7	7	10	7	7	1/4	7	14	1/4	2 7/16	F-B22447H	1/4	14	5/16	3 3/16	F-B22451H

NOTE: Bearings are Link-Belt or equivalent.

WHEEL WEIGHTS AND WR²

PBCA AIRFOIL WHEELS

SIZE	DIA. (INCHES)	CLASS 3		CLASS 3	
		WEIGHT (LBS)	WR ² (LBS-FT ²)	WEIGHT (LBS)	WR ² (LBS-FT ²)
182	18 1/4	32	9.6	34	10.2
200	20	36	13.0	39	14.0
222	22 1/4	51	22.7	57	25.4
245	24 1/2	64	34.6	71	38.4
270	27	74	48.6	83	54.5
300	30	110	89.1	124	100
330	33	135	132	154	151
365	36 1/2	159	191	183	219
402	40 1/4	223	325	251	366
445	44 1/2	258	460	294	524
490	49	407	882	445	962
542	54 1/4	419	1110	532	1409

PBCS BACKWARD CURVE WHEELS

SIZE	DIA. (INCHES)	CLASS 3		CLASS 3	
		WEIGHT (LBS)	WR ² (LBS-FT ²)	WEIGHT (LBS)	WR ² (LBS-FT ²)
122	12 1/4	13	1.8	16	2.2
135	13 1/2	15	2.5	19	3.1
150	15	17	3.4	22	4.5
165	16 1/2	27	6.6	33	8.1
182	18 1/4	34	10.2	41	12.3
200	20	38	13.7	46	16.6
222	22 1/4	54	24.1	67	29.9
245	24 1/2	68	36.7	87	47.0
270	27	80	52.5	102	66.9
300	30	116	94.0	147	119
330	33	143	140	183	179
365	36 1/2	168	201	218	261
402	40 1/4	233	340	291	424
445	44 1/2	271	483	342	610
490	49	434	938	539	1165
542	54 1/4	514	1361	644	1706

$$\left(\text{Equivalent WR}^2 \text{ At Motor Shaft} \right) = \text{WR}^2 \left(\frac{\text{Fan RPM}}{\text{Motor RPM}} \right)^2 \times 1.05$$

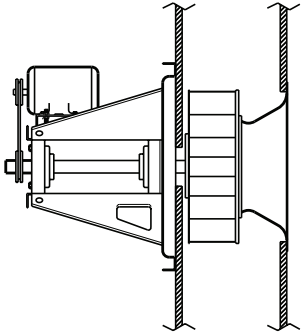
HIGH TEMPERATURE CONSTRUCTION

- 250°F - 400°F — Heat Slinger, high-temperature paint.
- 401°F - 700°F — Heat Slinger, high-temperature paint, high-temperature shaft seal.
- 701°F - 900°F — Heat Slinger, high-temperature paint, high-temperature shaft seal, Corten wheel material, fins on back of wheel. (Also requires 4" thick insulated plug or customer provided 4" insulated wall.)
- 901°F - 1000°F — Heat Slinger, high-temperature paint, high-temperature shaft seal, 316L S.S. wheel, shaft, and inlet venturi, fins on back of wheel, fixed and floating bearings, high temperature grease. (Also requires 4" thick insulated plug or customer provided 4" insulated wall.)

CORROSION RESISTANT AND SPECIAL ALLOYS

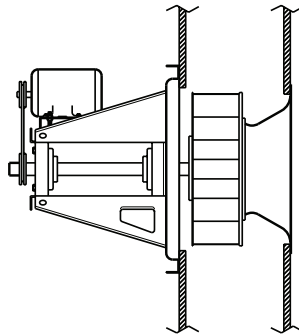
For applications involving handling of corrosive fumes, a wide variety of protective coatings and special alloy metals are available. Consult your American Fan representative or factory for full details.

TYPICAL INSTALLATIONS



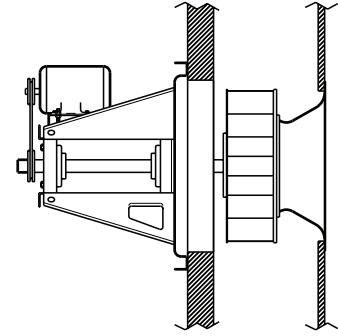
Mounting type 1

Plug fan is mounted to wall or ceiling with small hole in wall for shaft to pass through. Wheel must be removed and re-mounted from inside.



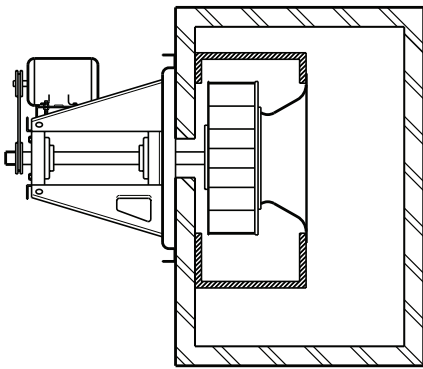
Mounting type 2

Plug fan is mounted to wall or ceiling with large round hole in wall for wheel to pass through from outside. Wheel does not have to be removed for mounting fan.



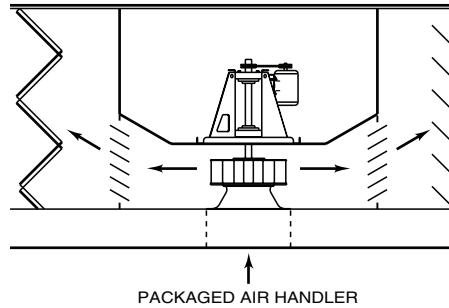
Mounting type 3

Plug fan is mounted to wall or ceiling with large square hole in wall for insulated plug. Wheel does not have to be removed for mounting fan.



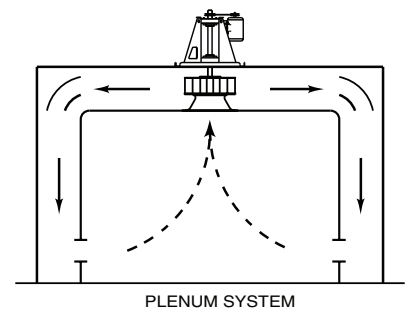
Mounting type 4

Housed plug fans can be mounted in any of the ways shown. Housing must be mounted from inside and is mounted either to insulated plug or to interior of wall.



Mounting type 5

Plug fan is mounted vertically or horizontally in packaged air handling unit. Fan pulls air in from system and discharges into plenum containing filters, coils, dampers, etc. and supplies conditioned air back to building.

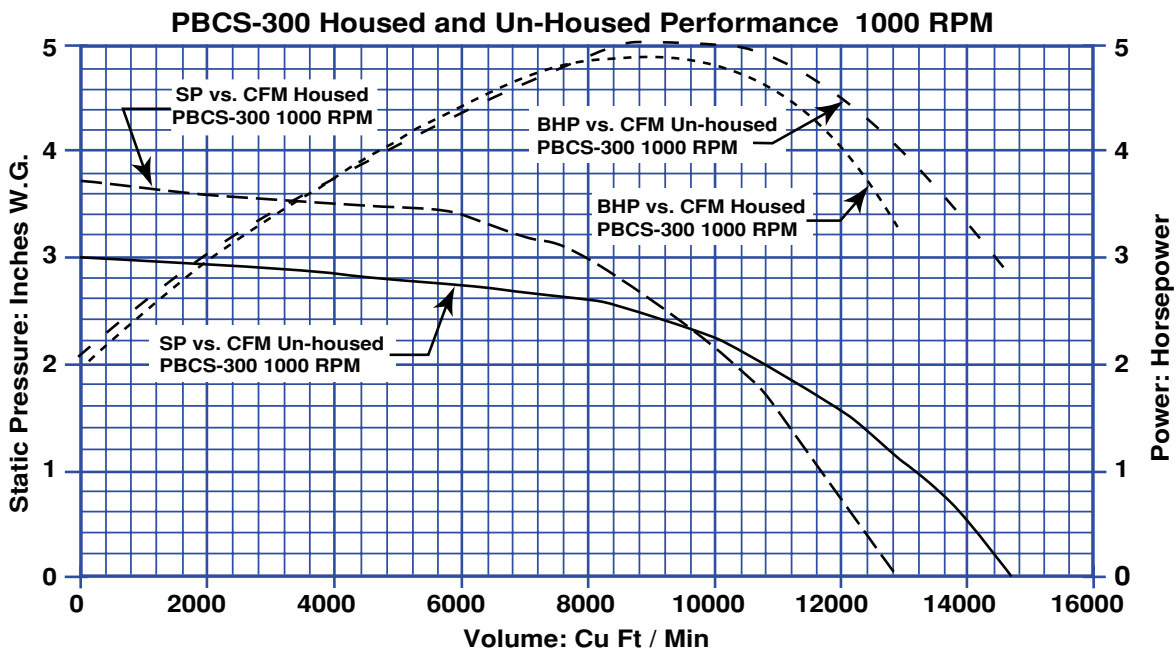


Mounting type 6

Plug fan is mounted vertically to ceiling with large square hole in wall for insulated plug or with small hole for shaft to pass through. Fan pulls air up inside plenum and discharges back to bottom of plenum through peripheral ducting.

DIFFERENCES OF HOUSED AND UN-HOUSED PLUG FAN PERFORMANCE

The curves below show the performance differences of a housed and an un-housed plug fan (without wall proximity effects). As can be seen, an un-housed plug fan can be more efficient at lower static pressures than a housed plug fan. Housings should be utilized in applications where all of the air needs to be discharged in one direction only.



TEMPERATURE AND ALTITUDE CORRECTIONS

USING DENSITY CORRECTION FACTORS

The Capacity Tables in this bulletin are based on fans handling standard air at a density of .075 pounds per cubic foot equivalent to air at 70°F and 29.92" Hg barometric pressure. Therefore, when a fan handles air or other gases at other than standard density due to temperature, altitude or the type of gas, the published tables should be used in the following manner.

EXAMPLE: Determine RPM and BHP for a PBCS-122, 2923 CFM, 2" SP, 350° F, 3000' elevation.

- 1) Determine the equivalent static pressure in the following manner: SP = required SP x density factor for conditions from the table below, ie equivalent SP = 2 x 1.5 = 3"
- 2) Using the required CFM and the equivalent SP, obtain the RPM and BHP from the capacity table, interpolating when necessary. From capacity table for size BCS-122, RPM = 3518, Equivalent BHP = 2.72

- 3) The RPM obtained is the correct value.
- 4) The BHP obtained must be corrected for the actual density as follows:

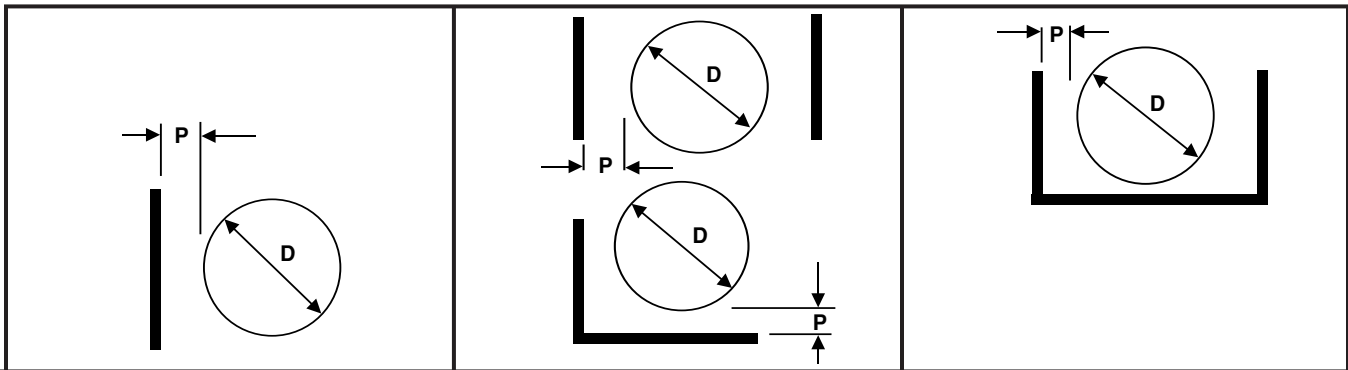
$$\begin{aligned} \text{BHP at conditions} &= \frac{\text{Equivalent BHP}}{\text{Density Factor}} \\ &= \frac{2.72}{1.50} \end{aligned}$$

Therefore, BHP at conditions = 1.81

DENSITY CORRECTION FACTORS

AIR TEMP DEG. F	ALTITUDE IN FEET ABOVE SEA LEVEL																			
	0	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	10000
-60°	.76	.77	.78	.80	.81	.83	.84	.86	.87	.89	.91	.92	.94	.96	.98	1.00	1.02	1.04	1.06	1.10
-40°	.79	.81	.82	.84	.85	.87	.88	.90	.92	.93	.95	.97	.99	1.01	1.03	1.05	1.07	1.09	1.11	1.15
-20°	.83	.85	.86	.88	.89	.91	.93	.94	.96	.98	1.00	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.21
0°	.87	.89	.91	.92	.94	.96	.98	.99	1.01	1.03	1.05	1.06	1.09	1.10	1.13	1.15	1.17	1.19	1.22	1.26
40°	.94	.96	.98	1.00	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.19	1.21	1.23	1.26	1.28	1.30	1.32	1.36
70°	1.00	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20	1.22	1.25	1.27	1.30	1.32	1.35	1.37	1.40	1.45
80°	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.19	1.21	1.23	1.26	1.28	1.30	1.33	1.36	1.38	1.41	1.43	1.48
100°	1.06	1.08	1.10	1.12	1.14	1.16	1.19	1.21	1.23	1.25	1.28	1.30	1.33	1.35	1.38	1.41	1.43	1.46	1.48	1.54
120°	1.09	1.12	1.14	1.16	1.18	1.20	1.23	1.25	1.28	1.30	1.32	1.35	1.38	1.40	1.43	1.46	1.48	1.51	1.53	1.58
140°	1.13	1.15	1.18	1.20	1.22	1.25	1.27	1.29	1.32	1.34	1.37	1.40	1.42	1.45	1.48	1.51	1.54	1.57	1.58	1.65
160°	1.17	1.19	1.22	1.24	1.26	1.29	1.31	1.34	1.36	1.39	1.42	1.44	1.47	1.50	1.53	1.56	1.59	1.62	1.64	1.70
180°	1.21	1.23	1.26	1.28	1.30	1.33	1.36	1.38	1.41	1.43	1.46	1.49	1.52	1.55	1.58	1.61	1.64	1.67	1.70	1.75
200°	1.25	1.27	1.29	1.32	1.34	1.37	1.40	1.42	1.45	1.48	1.51	1.54	1.57	1.60	1.63	1.66	1.69	1.72	1.75	1.81
250°	1.34	1.36	1.39	1.42	1.45	1.47	1.50	1.53	1.56	1.59	1.62	1.65	1.68	1.71	1.74	1.78	1.82	1.85	1.88	1.94
300°	1.43	1.46	1.49	1.52	1.55	1.58	1.61	1.64	1.67	1.70	1.74	1.77	1.80	1.84	1.87	1.91	1.94	1.98	2.00	2.08
350°	1.53	1.56	1.59	1.62	1.65	1.68	1.72	1.75	1.78	1.81	1.85	1.88	1.92	1.96	2.00	2.04	2.07	2.11	2.14	2.22
400°	1.62	1.65	1.69	1.72	1.75	1.79	1.82	1.85	1.89	1.93	1.96	2.00	2.04	2.08	2.12	2.16	2.20	2.25	2.27	2.35
450°	1.72	1.75	1.79	1.82	1.86	1.89	1.93	1.96	2.00	2.04	2.08	2.12	2.16	2.20	2.24	2.29	2.33	2.38	2.41	2.50
500°	1.81	1.85	1.88	1.92	1.96	1.99	2.03	2.07	2.11	2.15	2.19	2.23	2.28	2.32	2.36	2.41	2.46	2.51	2.54	2.62
550°	1.91	1.94	1.98	2.02	2.06	2.10	2.14	2.18	2.22	2.26	2.30	2.35	2.40	2.44	2.49	2.54	2.58	2.63	2.68	2.77
600°	2.00	2.04	2.08	2.12	2.16	2.20	2.24	2.29	2.33	2.38	2.42	2.47	2.50	2.56	2.61	2.66	2.71	2.77	2.80	2.90
650°	2.10	2.14	2.18	2.22	2.26	2.31	2.35	2.40	2.44	2.49	2.54	2.58	2.63	2.68	2.74	2.79	2.84	2.90	2.94	3.04
700°	2.19	2.23	2.27	2.32	2.36	2.41	2.46	2.50	2.55	2.60	2.65	2.70	2.75	2.80	2.86	2.91	2.97	3.03	3.06	3.18
750°	2.28	2.33	2.37	2.42	2.47	2.51	2.56	2.61	2.66	2.71	2.76	2.81	2.87	2.92	2.98	3.04	3.10	3.16	3.19	3.31
800°	2.38	2.43	2.48	2.52	2.57	2.62	2.66	2.72	2.76	2.81	2.86	2.90	2.98	3.02	3.10	3.14	3.21	3.26	3.33	3.45
850°	2.47	2.52	2.57	2.62	2.67	2.72	2.76	2.82	2.87	2.92	2.97	3.02	3.09	3.14	3.21	3.26	3.33	3.38	3.46	3.58
900°	2.57	2.62	2.67	2.72	2.76	2.83	2.88	2.93	2.98	3.03	3.08	3.14	3.21	3.26	3.34	3.39	3.47	3.52	3.60	3.73
950°	2.66	2.72	2.77	2.82	2.87	2.92	2.98	3.03	3.08	3.14	3.19	3.24	3.32	3.38	3.46	3.51	3.58	3.64	3.72	3.86
1000°	2.76	2.82	2.87	2.92	2.98	3.04	3.09	3.14	3.20	3.26	3.31	3.37	3.45	3.50	3.59	3.64	3.72	3.78	3.86	4.00

WALL PROXIMITY CORRECTION FACTORS



% WOV	One Wall						Two Walls						Three Walls					
	P/D = 1/4		P/D = 1/2		P/D = 3/4		P/D = 1/4		P/D = 1/2		P/D = 3/4		P/D = 1/4		P/D = 1/2		P/D = 3/4	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
90	1.010	1.035	1.010	1.020	1.005	1.005	1.020	1.055	1.010	1.020	1.005	1.005	1.060	1.190	1.030	1.080	1.015	1.040
80	1.010	1.030	1.005	1.015	1.005	1.005	1.020	1.050	1.010	1.020	1.005	1.005	1.055	1.170	1.025	1.075	1.010	1.030
70	1.010	1.030	1.000	1.010	1.000	1.005	1.015	1.045	1.005	1.020	1.000	1.005	1.045	1.150	1.020	1.065	1.010	1.030
60	1.010	1.025	1.000	1.010	1.000	1.005	1.010	1.035	1.000	1.020	1.000	1.000	1.040	1.130	1.020	1.055	1.005	1.020
50	1.010	1.020	1.000	1.010	1.000	1.000	1.010	1.030	1.000	1.015	1.000	1.000	1.035	1.105	1.015	1.045	1.005	1.015
40	1.010	1.020	1.000	1.010	1.000	1.000	1.005	1.025	1.000	1.010	1.000	1.000	1.030	1.090	1.010	1.035	1.005	1.010

SELECTING PBCA AND PBCS PLUG FANS (without fan housing)

The performance data shown in this catalog is based on standard air, which is defined as 70°F air at sea level with a density of 0.075 lbs./ft.³. Elevations other than sea level and gas temperatures other than 70°F must be accounted for in the selection process.

Performance data shown is for un-housed applications. When one, two, or three walls are adjacent to the fan impeller, their proximity must also be taken into account in the selection process. For housed applications, refer to Bulletin AS0952.

For a copy of AFC/Woods USA Fan Selection Software, contact your local sales representative or the factory.

SELECTION EXAMPLE (for un-housed application)

Requirement is for 20,000 ACFM at 2" SP at 850°F operating temperature at sea level and a maximum temperature of 900°F. There are two parallel walls that are 60" apart.

Step 1: Determine the equivalent SP at standard air density so selection tables can be used. From the Density Correction Factor table, the factor for 850°F air at sea level is 2.47. Therefore the equivalent SP is:

$$2" \text{ SP} \times 2.47 = 4.94" \text{ equivalent SP.}$$

Step 2: Select a fan size. Looking at performance tables, we see that a PBCS-330 will produce 21204 CFM at 5" SP at 1455 RPM and 24.20 BHP. Interpolating, it will produce 20000 CFM at 4.94" SP at 1412 RPM and 22.36 BHP at 0.075 lbs./ft.³ density.

Step 3: Correct BHP for 850°F operating temperature.

$$\frac{22.36 \text{ BHP}}{2.47 \text{ Correction factor}} = 9.05 \text{ BHP at } 850^\circ\text{F operating temperature}$$

Step 4: Correct for two walls. From top of performance table, wheel diameter is 33". Since wheel will be centered between walls, determine distance from wall to wheel, $\frac{60" - 33"}{2} = 13.5"$, therefore **P = 13.5"**.

Determine P/D ratio: $\frac{13.5}{33} = 0.41$, use P/D ratio of 1/2 for two walls.

Step 5: Determine %WOV. From WOV formula at top of performance table for PBCS-330,

$$\text{WOV} = \text{RPM} \times 19.026, \text{ therefore } \text{WOV} = 1412 \times 19.026 = 26865$$

$$\% \text{WOV} = \frac{\text{Required CFM}}{\text{WOV}} = \frac{20000}{26865} = 74\% \text{ WOV}$$

From Wall Proximity Correction factors for two walls, P/D=1/2, and 70% WOV, correct RPM by multiplying by 1.005, $1412 \times 1.005 = 1419 \text{ RPM}$ and correct BHP by multiplying by 1.020, $9.05 \times 1.020 = 9.23 \text{ BHP}$.

Step 6: Determine fan class, wheel material, and maximum RPM. From top of performance table, standard wheel material for 900°F is Corten. Fan operating speed is 1419 RPM, therefore, minimum fan class is class 3 and maximum RPM is 1514 RPM.

Step 7: Summarize selection.

Requirement is for 20,000 ACFM at 2" SP at 850°F operating temperature at sea level and a maximum temperature of 900°F. There are two parallel walls that are 60" apart.

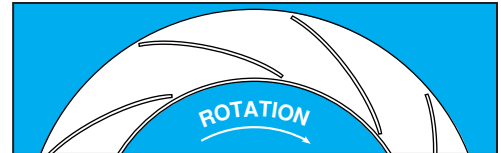
Selection:

- PBCS-330
- 20000 ACFM
- 2" SP (4.94" SP equivalent at 70°F)
- 850°F air at sea level
- 1419 RPM
- 9.23 BHP at conditions
- 22.36 BHP at standard air
- 25 HP motor for cold start
- 701°F to 900°F construction
- Wheel material - Corten
- Class 3
- Max. RPM = 1514 RPM

PBCS-122

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 12.25"
 WHEEL CIRCUMFERENCE: 3.21'
 TIP SPEED (FPM) = 3.21 x RPM
 MAX BHP = 0.066 x (RPM/1000)³



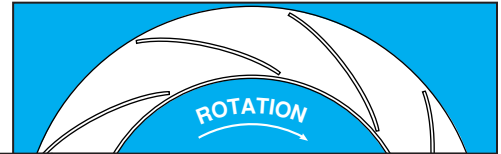
TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	3952	5155	5700	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	3754	4897	5415	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	3241	4227	4674	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	2687	3506	3876	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	2450	3196	3534	316L S.S.*

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1043	1000	1601	0.27	2126	0.59														
1252	1200	1719	0.33	2173	0.67														
1461	1400	1861	0.42	2257	0.76	2645	1.18												
1670	1600	2017	0.52	2370	0.88	2715	1.32	3050	1.81	3366	2.34								
1879	1800	2189	0.64	2500	1.02	2811	1.47	3115	1.98	3412	2.53	3698	3.13						
2087	2000	2365	0.77	2646	1.19	2928	1.66	3201	2.18	3477	2.75	3745	3.36	4252	4.71				
2296	2200	2543	0.93	2799	1.39	3059	1.88	3314	2.41	3563	3.00	3813	3.63	4298	5.01				
2505	2400	2724	1.12	2970	1.61	3205	2.13	3439	2.68	3672	3.28	3899	3.93	4345	5.32	4792	6.89		
2714	2600	2915	1.34	3144	1.87	3353	2.41	3575	2.98	3791	3.59	4006	4.26	4429	5.70	4839	7.27	5243	8.99
2923	2800	3110	1.61	3319	2.15	3518	2.72	3721	3.33	3920	3.96	4123	4.62	4514	6.10	4906	7.71	5289	9.45
3131	3000	3306	1.91	3497	2.45	3690	3.08	3870	3.70	4065	4.37	4250	5.05	4624	6.55	4991	8.20	5346	9.94
3340	3200	3504	2.25	3676	2.79	3864	3.47	4034	4.12	4212	4.81	4390	5.52	4739	7.03	5083	8.72	5431	10.52
3549	3400	3702	2.63	3858	3.17	4039	3.88	4205	4.58	4362	5.29	4536	6.03	4867	7.59	5196	9.28	5516	11.12
3758	3600	3902	3.06	4048	3.61	4216	4.33	4378	5.08	4529	5.82	4685	6.59	5000	8.19	5313	9.89	5621	11.77
3967	3800	4102	3.53	4242	4.11	4395	4.82	4554	5.62	4700	6.40	4839	7.19	5146	8.85	5440	10.60		
4175	4000	4303	4.06	4437	4.66	4576	5.35	4730	6.19	4874	7.02	5009	7.84	5293	9.56	5573	11.35		
4384	4200	4633	5.27	4758	5.93	4907	6.80	5049	7.70	5181	8.55	5318	9.38	5611	12.14				
4593	4400	4831	5.92	4949	6.60	5086	7.46	5224	8.39	5355	9.30	5558	10.21						

PBCS-135

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 13.50"
 WHEEL CIRCUMFERENCE: 3.53'
 TIP SPEED (FPM) = 3.53 x RPM
 MAX BHP = 0.108 x (RPM/1000)³



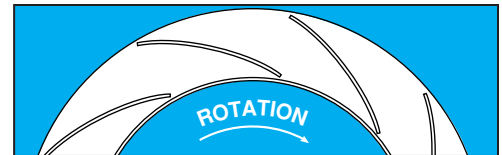
TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	3586	4678	5172	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	3407	4444	4913	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	2941	3836	4241	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	2438	3182	3517	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	2224	2900	3206	316L S.S.*

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1267	1000	1452	0.33	1929	0.71														
1521	1200	1560	0.41	1971	0.81														
1775	1400	1688	0.51	2048	0.93	2400	1.43												
2028	1600	1830	0.63	2150	1.07	2464	1.60	2767	2.19	3054	2.85								
2282	1800	1987	0.77	2269	1.24	2550	1.79	2827	2.40	3096	3.08	3356	3.81						
2535	2000	2146	0.94	2401	1.45	2657	2.01	2905	2.65	3156	3.34	3398	4.09	3858	5.72				
2789	2200	2308	1.13	2540	1.69	2776	2.28	3008	2.92	3233	3.64	3460	4.41	3900	6.08				
3042	2400	2472	1.36	2695	1.96	2908	2.58	3120	3.25	3332	3.98	3538	4.77	3943	6.46	4348	8.36		
3296	2600	2645	1.63	2853	2.27	3043	2.92	3244	3.62	3440	4.36	3635	5.17	4019	6.92	4391	8.83	4757	10.91
3550	2800	2822	1.95	3012	2.61	3192	3.31	3377	4.04	3557	4.81	3741	5.61	4096	7.41	4452	9.36	4799	11.47
3803	3000	3000	2.32	3173	2.98	3348	3.74	3512	4.50	3689	5.30	3857	6.13	4196	7.95	4529	9.96	4851	12.08
4057	3200	3179	2.73	3336	3.39	3506	4.21	3660	5.00	3822	5.84	3983	6.71	4301	8.53	4612	10.59	4928	12.78
4310	3400	3359	3.20	3501	3.85	3665	4.71	3816	5.56	3958	6.42	4116	7.33	4416	9.22	4715	11.27	5006	13.51
4564	3600	3540	3.72	3673	4.39	3826	5.26	3973	6.17	4110	7.07	4251	8.00	4537	9.95	4821	12.02	5101	14.30
4818	3800	3722	4.29	3849	4.99	3988	5.85	4132	6.83	4265	7.77	4391	8.73	4669	10.75	4937	12.87		
5071	4000	3905	4.93	4026	5.66	4152	6.50	4292	7.52	4422	8.53	4545	9.52	4803	11.61	5057	13.79		
5325	4200			4204	6.40	4317	7.20	4453	8.26	4581	9.35	4701	10.38	4938	12.52				
5578	4400			4383	7.20	4490	8.02	4615	9.06	4740	10.19	4859	11.30	5080	13.50				

PBCS-150

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 15.00"
 WHEEL CIRCUMFERENCE: 3.93'
 TIP SPEED (FPM) = 3.93 x RPM
 MAX BHP = 0.169 x (RPM/1000)³



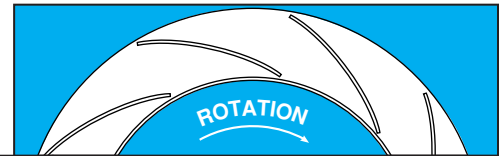
TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	3046	3673	4655	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	2894	3774	4422	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	2498	3258	3817	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	2071	2702	3165	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	1889	2463	2886	316L S.S.*

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1564	1000	1307	0.37	1736	0.81														
1877	1200	1404	0.47	1774	0.91														
2190	1400	1519	0.58	1843	1.05	2160	1.62												
2503	1600	1647	0.72	1935	1.22	2217	1.80	2491	2.48	2749	3.22								
2816	1800	1787	0.88	2041	1.43	2295	2.02	2544	2.71	2787	3.48	3020	4.30						
3129	2000	1931	1.07	2161	1.67	2391	2.30	2614	2.99	2840	3.77	3058	4.61	3472	6.46				
3442	2200	2076	1.30	2285	1.94	2498	2.62	2706	3.32	2910	4.11	3114	4.98	3510	6.87				
3755	2400	2224	1.56	2425	2.24	2616	2.97	2808	3.73	2998	4.52	3184	5.39	3548	7.30	3913	9.45		
4068	2600	2380	1.89	2567	2.58	2738	3.37	2919	4.17	3096	4.99	3271	5.86	3616	7.82	3951	9.98	4281	12.33
4381	2800	2539	2.26	2710	2.97	2872	3.79	3039	4.65	3201	5.53	3366	6.40	3686	8.38	4006	10.57	4319	12.96
4693	3000	2699	2.69	2855	3.41	3012	4.26	3160	5.18	3319	6.10	3471	7.05	3776	9.02	4076	11.25	4365	13.64
5006	3200	2860	3.18	3002	3.89	3155	4.78	3293	5.74	3439	6.72	3584	7.72	3870	9.72	4150	11.97	4435	14.43
5319	3400	3023	3.72	3150	4.44	3298	5.36	3433	6.35	3561	7.39	3704	8.43	3974	10.56	4242	12.80	4505	15.26
5632	3600	3186	4.33	3305	5.07	3443	6.00	3575	7.02	3698	8.11	3825	9.21	4083	11.45	4338	13.70	4590	16.20
5945	3800	3349	5.00	3463	5.78	3589	6.71	3718	7.75	3838	8.87	3951	10.04	4201	12.37	4442	14.76		
6258	4000	3513	5.75	3623	6.56	3736	7.47	3862	8.56	3979	9.70	4090	10.91	4321	13.36	4550	15.87		
6571	4200			3783	7.42	3885	8.31	4007	9.44	4122	10.59	4230	11.84	4443	14.41				
6884	4400			3944	8.35	4040	9.26	4153	10.38	4265	11.58	4372	12.85	4571	15.52				

PBCS-165

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 16.50"
 WHEEL CIRCUMFERENCE: 4.32'
 TIP SPEED (FPM) = 4.32 x RPM
 MAX BHP = 0.272 x (RPM/1000)³



TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	2769	3612	4232	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	2631	3431	4020	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	2271	2962	3470	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	1883	2457	2878	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	1717	2239	2624	316L S.S.*

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1893	1000	1188	0.45	1578	0.98														
2271	1200	1276	0.56	1613	1.10														
2650	1400	1381	0.70	1676	1.27	1963	1.96												
3029	1600	1497	0.87	1759	1.47	2016	2.18	2264	3.00	2499	3.89								
3407	1800	1625	1.06	1856	1.73	2086	2.45	2312	3.28	2533	4.21	2745	5.20						
3786	2000	1755	1.29	1964	2.02	2173	2.78	2376	3.62	2582	4.56	2780	5.58	3157	7.82				
4165	2200	1888	1.57	2078	2.35	2271	3.17	2460	4.02	2645	4.98	2831	6.02	3191	8.32				
4543	2400	2022	1.89	2204	2.71	2379	3.60	2552	4.51	2725	5.46	2894	6.52	3226	8.83	3557	11.43		
4922	2600	2163	2.28	2333	3.12	2489	4.07	2654	5.05	2814	6.03	2973	7.09	3288	9.46	3592	12.07	3892	14.92
5301	2800	2308	2.74	2464	3.59	2611	4.59	2762	5.63	2910	6.69	3060	7.75	3351	10.13	3642	12.79	3927	15.68
5679	3000	2454	3.26	2595	4.12	2739	5.16	2873	6.26	3017	7.38	3155	8.53	3432	10.91	3705	13.61	3968	16.50
6058	3200	2600	3.84	2729	4.71	2868	5.78	2994	6.95	3126	8.13	3259	9.34	3518	11.76	3773	14.49	4031	17.46
6437	3400	2748	4.50	2864	5.37	2998	6.48	3121	7.69	3237	8.95	3367	10.21	3613	12.78	3857	15.49	4095	18.47
6815	3600	2896	5.24	3004	6.13	3130	7.26	3250	8.49	3361	9.81	3477	11.14	3712	13.86	3944	16.58	4173	19.60
7194	3800	3045	6.05	3148	6.99	3262	8.11	3380	9.37	3489	10.74	3592	12.14	3819	14.97	4038	17.86		
7572	4000	3194	6.95	3293	7.94	3396	9.04	3511	10.36	3617	11.74	3718	13.20	3929	16.16	4136	19.20		
7951	4200			3439	8.98	3531	10.05	3642	11.42	3747	12.82	3846	14.33	4039	17.43				
8330	4400			3585	10.11	3673	11.21	3775	12.56	3878	14.02	3974	15.55	4155	18.78				

PBCS-182

UNHOUSED PLUG FAN PERFORMANCE

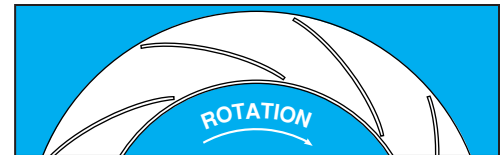
AIR DENSITY: 0.075 LBS./CU. FT.

WHEEL DIAMETER: 18.25"

WHEEL CIRCUMFERENCE: 4.78'

TIP SPEED (FPM) = 4.78 x RPM

MAX BHP = 0.432 x (RPM/1000)³



TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	2346	361	3825	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	2229	2908	3634	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1924	2510	3137	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	1595	2082	2601	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	1455	1898	2372	316L S.S.*

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2314	1000	1074	0.54	1427	1.18														
2777	1200	1153	0.65	1458	1.33														
3240	1400	1248	0.78	1515	1.50	1775	2.37												
3702	1600	1353	0.95	1590	1.72	1822	2.61	2047	3.62	2259	4.69								
4165	1800	1468	1.15	1677	1.97	1886	2.89	2090	3.94	2290	5.08	2482	6.27						
4628	2000	1586	1.38	1775	2.24	1964	3.23	2148	4.28	2334	5.48	2513	6.74	2854	9.42				
5091	2200	1705	1.64	1877	2.56	2052	3.61	2224	4.72	2391	5.90	2559	7.23	2885	10.04				
5554	2400	1827	1.93	1992	2.94	2150	4.02	2307	5.20	2463	6.43	2616	7.73	2916	10.68	3216	13.79		
6017	2600	1955	2.28	2108	3.37	2249	4.47	2398	5.72	2543	7.01	2687	8.35	2972	11.32	3247	14.59	3519	18.00
6480	2800	2085	2.68	2226	3.83	2359	4.99	2496	6.27	2630	7.64	2766	9.05	3029	12.01	3292	15.39	3550	18.94
6942	3000	2217	3.13	2345	4.33	2475	5.59	2596	6.87	2727	8.30	2851	9.79	3102	12.85	3349	16.22	3587	19.91
7405	3200	2349	3.64	2465	4.88	2591	6.24	2705	7.56	2825	9.01	2945	10.56	3179	13.77	3410	17.12	3644	20.88
7868	3400	2482	4.20	2587	5.49	2709	6.93	2820	8.34	2926	9.78	3043	11.39	3265	14.74	3486	18.22	3702	21.90
8331	3600	2616	4.82	2714	6.17	2828	7.66	2937	9.18	3038	10.67	3142	12.27	3354	15.76	3564	19.38	3771	23.12
8794	3800	2751	5.52	2844	6.93	2948	8.46	3054	10.09	3152	11.64	3246	13.24	3452	16.83	3650	20.59		
9257	4000	2885	6.28	2975	7.75	3069	9.32	3172	11.01	3269	12.69	3360	14.35	3550	17.96	3738	21.87		
9720	4200			3107	8.65	3191	10.25	3291	12.01	3386	13.82	3475	15.53	3650	19.16				
10182	4400			3239	9.63	3318	11.29	3411	13.09	3504	14.96	3591	16.81	3755	20.47				

PBCS-200

UNHOUSED PLUG FAN PERFORMANCE

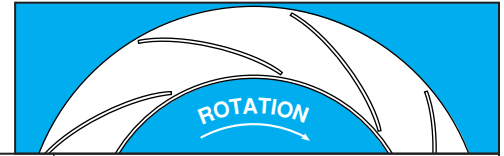
AIR DENSITY: 0.075 LBS./CU. FT.

WHEEL DIAMETER: 20.00"

WHEEL CIRCUMFERENCE: 5.24'

TIP SPEED (FPM) = 5.24 x RPM

MAX BHP = 0.683 x (RPM/1000)³



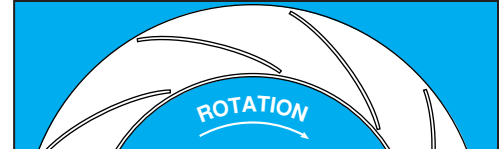
TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	2134	2785	3475	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	2027	2646	3301	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1750	2284	2850	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	1451	1894	2363	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	1323	1727	2154	316L S.S.*

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2779	1000	980	0.64	1302	1.41														
3335	1200	1052	0.78	1331	1.60														
3891	1400	1139	0.94	1382	1.80	1620	2.84												
4447	1600	1234	1.14	1451	2.07	1663	3.13	1868	4.35	2061	5.63								
5002	1800	1340	1.38	1530	2.37	1721	3.47	1907	4.73	2090	6.10	2265	7.53						
5558	2000	1447	1.65	1620	2.70	1792	3.89	1960	5.14	2129	6.58	2293	8.10	2604	11.31				
6114	2200	1556	1.96	1713	3.07	1872	4.34	2029	5.67	2182	7.09	2335	8.68	2632	12.05				
6670	2400	1667	2.32	1818	3.53	1961	4.82	2105	6.25	2248	7.72	2387	9.29	2661	12.82	2935	16.57		
7226	2600	1784	2.74	1924	4.04	2052	5.36	2188	6.86	2321	8.42	2452	10.03	2712	13.60	2963	17.52	3211	21.61
7782	2800	1903	3.22	2031	4.60	2153	5.99	2278	7.53	2400	9.18	2524	10.87	2764	14.42	3004	18.48	3239	22.75
8338	3000	2023	3.76	2140	5.20	2258	6.71	2369	8.25	2488	9.97	2602	11.75	2831	15.44	3056	19.48	3273	23.91
8894	3200	2144	4.37	2250	5.86	2365	7.49	2469	9.08	2578	10.82	2687	12.68	2901	16.54	3112	20.56	3325	25.08
9450	3400	2265	5.04	2361	6.59	2472	8.32	2573	10.01	2670	11.74	2777	13.68	2979	17.71	3181	21.88	3378	26.30
10005	3600	2387	5.79	2477	7.41	2580	9.20	2680	11.02	2772	12.82	2867	14.74	3061	18.93	3252	23.28	3441	27.77
10561	3800	2510	6.62	2595	8.32	2690	10.15	2787	12.11	2877	13.98	2962	15.90	3150	20.21	3330	24.73		
11117	4000	2633	7.54	2715	9.31	2800	11.19	2894	13.23	2983	15.24	3066	17.23	3240	21.57	3411	26.27		
11673	4200			2835	10.39	2911	12.31	3003	14.43	3090	16.60	3171	18.66	3331	23.01				
12229	4400			2956	11.56	3028	13.55	3112	15.71	3197	17.97	3277	20.18	3426	24.58				

PBCS-222

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 22.25"
 WHEEL CIRCUMFERENCE: 5.83'
 TIP SPEED (FPM) = 5.83 x RPM
 MAX BHP = 1.134 x (RPM/1000)³



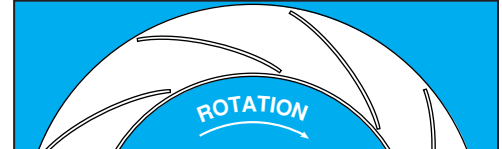
TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	1885	2460	3303	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1791	2337	3138	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1546	2017	2708	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	1282	1673	2246	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	1169	1525	2048	316L S.S.*

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3443	1000	881	0.78	1170	1.70	1416	2.80												
4132	1200	946	0.94	1196	1.93	1431	3.09	1639	4.39										
4820	1400	1024	1.14	1243	2.18	1456	3.43	1654	4.79	1836	6.28	2002	7.87						
5509	1600	1110	1.37	1304	2.50	1495	3.78	1679	5.24	1853	6.78	2017	8.45						
6198	1800	1205	1.66	1376	2.86	1547	4.19	1715	5.71	1879	7.35	2036	9.08	2325	12.83	2583	16.90		
6886	2000	1302	1.98	1457	3.25	1612	4.69	1762	6.21	1914	7.94	2062	9.77	2341	13.62	2599	17.87	2832	22.38
7575	2200	1400	2.35	1541	3.71	1684	5.24	1824	6.85	1962	8.56	2099	10.48	2367	14.53	2614	18.85	2847	23.54
8264	2400	1500	2.77	1635	4.25	1764	5.82	1893	7.55	2021	9.33	2146	11.21	2392	15.47	2638	19.96	2863	24.72
8952	2600	1605	3.30	1731	4.86	1846	6.47	1968	8.29	2087	10.18	2205	12.12	2438	16.42	2664	21.12	2886	26.04
9641	2800	1712	3.91	1827	5.51	1936	7.22	2049	9.08	2158	11.08	2269	13.13	2485	17.41	2701	22.30	2912	27.43
10330	3000	1820	4.61	1925	6.22	2031	8.07	2131	9.95	2238	12.03	2340	14.19	2545	18.65	2748	23.51	2943	28.84
11018	3200	1929	5.39	2024	7.00	2127	9.01	2221	10.94	2319	13.06	2417	15.31	2609	19.98	2798	24.84	2990	30.27
11707	3400	2038	6.27	2124	7.87	2224	9.98	2315	12.05	2401	14.17	2497	16.50	2679	21.38	2860	26.43	3037	31.77
12396	3600	2148	7.25	2228	8.89	2321	11.02	2410	13.26	2493	15.44	2579	17.78	2753	22.86	2925	28.12	3094	33.54
13084	3800	2258	8.33	2335	10.05	2420	12.15	2507	14.55	2587	16.84	2664	19.17	2833	24.39	2995	29.87	3157	35.50
13773	4000	2369	9.53	2442	11.33	2519	13.37	2604	15.87	2683	18.34	2758	20.76	2914	26.03	3068	31.72	3223	37.54
14462	4200			2551	12.72	2619	14.69	2701	17.28	2779	19.95	2852	22.46	2996	27.76	3147	33.61	3294	39.67
15150	4400			2659	14.24	2724	16.25	2800	18.80	2876	21.57	2948	24.28	3082	29.65	3228	35.62		

PBCS-245

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 24.50"
 WHEEL CIRCUMFERENCE: 6.41'
 TIP SPEED (FPM) = 6.41 x RPM
 MAX BHP = 1.836 x (RPM/1000)³



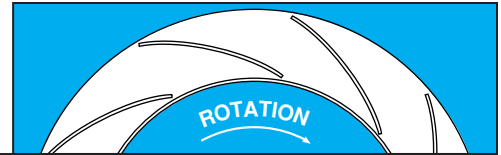
TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	1712	2234	3000	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1626	2122	2850	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1404	1832	2460	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	1164	1519	2040	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	1061	1385	1860	316L S.S.*

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4175	1000	800	0.94	1063	2.06	1286	3.39												
5010	1200	860	1.14	1086	2.34	1300	3.75	1488	5.33										
5845	1400	930	1.38	1129	2.64	1322	4.16	1502	5.80	1668	7.62	1818	9.54						
6680	1600	1008	1.66	1185	3.03	1358	4.59	1525	6.35	1683	8.22	1832	10.25						
7515	1800	1095	2.01	1250	3.46	1405	5.08	1557	6.92	1706	8.92	1849	11.00	2112	15.55	2346	20.49		
8350	2000	1182	2.41	1323	3.94	1464	5.69	1601	7.53	1739	9.63	1872	11.84	2126	16.51	2360	21.66	2572	27.13
9185	2200	1271	2.85	1399	4.49	1529	6.35	1657	8.31	1781	10.38	1907	12.70	2149	17.61	2374	22.86	2586	28.54
10020	2400	1362	3.36	1485	5.15	1602	7.06	1719	9.15	1836	11.31	1949	13.60	2173	18.76	2396	24.20	2600	29.97
10855	2600	1457	4.00	1572	5.90	1676	7.84	1787	10.05	1895	12.34	2003	14.70	2214	19.90	2419	25.61	2621	31.57
11690	2800	1555	4.74	1659	6.69	1759	8.76	1860	11.01	1960	13.44	2061	15.91	2257	21.11	2453	27.04	2645	33.25
12525	3000	1653	5.59	1748	7.54	1845	9.79	1935	12.06	2032	14.59	2125	17.21	2312	22.61	2495	28.51	2673	34.97
13360	3200	1752	6.54	1838	8.49	1932	10.92	2017	13.27	2106	15.83	2195	18.57	2369	24.23	2541	30.11	2715	36.70
14195	3400	1851	7.60	1929	9.54	2019	12.10	2102	14.62	2181	17.17	2268	20.01	2433	25.93	2598	32.05	2758	38.51
15030	3600	1951	8.79	2023	10.78	2108	13.36	2189	16.08	2264	18.73	2342	21.56	2500	27.72	2656	34.09	2810	40.67
15865	3800	2051	10.10	2121	12.19	2197	14.73	2277	17.65	2350	20.41	2419	23.25	2572	29.58	2720	36.22	2867	43.04
16700	4000	2151	11.55	2218	13.73	2288	16.21	2365	19.24	2437	22.23	2504	25.17	2646	31.55	2786	38.45	2927	45.52
17535	4200			2316	15.42	2378	17.82	2453	20.96	2524	24.19	2590	27.23	2720	33.65	2858	40.76	2991	48.10
18370	4400			2415	17.26	2474	19.71	2543	22.80	2612	26.15	2677	29.43	2799	35.94	2932	43.19		

PBCS-270

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 27.00"
 WHEEL CIRCUMFERENCE: 7.10'
 TIP SPEED (FPM) = 7.10 x RPM
 MAX BHP = 2.985 x (RPM/1000)³



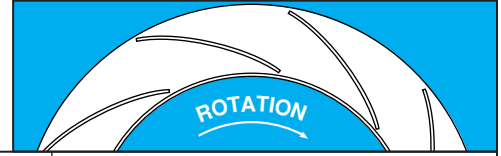
TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	1553	2027	2722	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1475	1926	2586	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1273	1662	2232	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	1056	1379	1851	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	963	1257	1688	316L S.S.*

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5070	1000	726	1.14	965	2.51	1167	4.12												
6084	1200	780	1.39	986	2.85	1180	4.55	1350	6.47										
7098	1400	844	1.67	1024	3.21	1200	5.05	1363	7.05	1513	9.25	1649	11.59						
8112	1600	915	2.01	1075	3.68	1232	5.57	1384	7.72	1527	9.99	1662	12.45						
9126	1800	993	2.44	1134	4.21	1275	6.17	1413	8.41	1548	10.83	1678	13.36	1916	18.89	2129	24.89		
10141	2000	1073	2.92	1200	4.79	1328	6.91	1452	9.14	1578	11.70	1699	14.38	1929	20.06	2142	26.31	2334	32.95
11155	2200	1154	3.46	1270	5.46	1388	7.71	1504	10.09	1616	12.61	1730	15.43	1950	21.39	2154	27.76	2346	34.66
12169	2400	1236	4.08	1347	6.26	1454	8.57	1560	11.11	1666	13.74	1769	16.51	1971	22.78	2174	29.39	2359	36.40
13183	2600	1322	4.85	1426	7.16	1521	9.53	1622	12.20	1720	14.98	1817	17.85	2009	24.17	2195	31.10	2379	38.34
14197	2800	1411	5.76	1506	8.12	1596	10.64	1688	13.37	1778	16.32	1870	19.33	2048	25.64	2226	32.84	2400	40.39
15211	3000	1500	6.79	1586	9.16	1674	11.89	1756	14.65	1844	17.72	1928	20.90	2098	27.46	2264	34.62	2425	42.47
16225	3200	1589	7.94	1668	10.31	1753	13.27	1830	16.12	1911	19.23	1991	22.55	2150	29.43	2306	36.57	2464	44.58
17239	3400	1679	9.23	1750	11.58	1832	14.70	1908	17.75	1979	20.86	2058	24.30	2208	31.49	2357	38.92	2503	46.78
18253	3600	1770	10.67	1836	13.09	1913	16.23	1986	19.53	2054	22.74	2125	26.18	2268	33.66	2410	41.40	2550	49.39
19268	3800	1861	12.27	1924	14.80	1994	17.89	2066	21.43	2132	24.79	2195	28.24	2334	35.92	2468	43.99	2601	52.27
20282	4000	1952	14.03	2013	16.68	2076	19.69	2146	23.37	2211	27.00	2272	30.57	2401	38.32	2528	46.70	2656	55.28
21296	4200			2102	18.73	2158	21.64	2226	25.45	2290	29.38	2350	33.07	2469	40.87	2594	49.50	2714	58.42
22310	4400			2191	20.96	2245	23.93	2307	27.69	2370	31.76	2429	35.75	2540	43.65	2660	52.45		

PBCS-300

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 30.00"
 WHEEL CIRCUMFERENCE: 7.85'
 TIP SPEED (FPM) = 7.85 x RPM
 MAX BHP = 5.020 x (RPM/1000)³



TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	1401	1828	2450	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1331	1737	2328	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1149	1499	2009	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	953	1243	1666	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	869	1134	1519	316L S.S.*

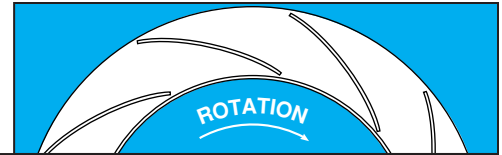
CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6258	1000	653	1.40	868	3.07	1050	5.04												
7510	1200	702	1.70	887	3.49	1062	5.57	1215	7.92										
8762	1400	760	2.05	922	3.93	1080	6.19	1227	8.64	1362	11.33	1484	14.19						
10013	1600	823	2.47	967	4.51	1109	6.83	1245	9.46	1374	12.24	1496	15.25						
11265	1800	894	2.99	1021	5.16	1147	7.57	1272	10.31	1393	13.27	1510	16.38	1724	23.13	1916	30.47		
12517	2000	965	3.57	1080	5.87	1195	8.47	1307	11.21	1420	14.34	1529	17.63	1736	24.58	1927	32.22	2100	40.34
13768	2200	1038	4.23	1143	6.68	1249	9.45	1353	12.37	1455	15.45	1557	18.91	1755	26.22	1939	34.01	2112	42.45
15020	2400	1112	4.98	1212	7.66	1308	10.51	1404	13.62	1499	16.83	1592	20.24	1774	27.92	1957	36.02	2123	44.60
16272	2600	1190	5.92	1283	8.76	1369	11.67	1459	14.95	1548	18.36	1635	21.87	1808	29.63	1976	38.12	2141	46.99
17524	2800	1269	7.01	1355	9.93	1436	13.03	1519	16.39	1600	20.00	1683	23.69	1843	31.43	2003	40.25	2160	49.49
18775	3000	1349	8.24	1427	11.20	1506	14.55	1580	17.95	1659	21.71	1735	25.61	1888	33.65	2038	42.43	2183	52.05
20027	3200	1430	9.63	1501	12.60	1577	16.23	1647	19.74	1720	23.56	1792	27.63	1935	36.06	2075	44.82	2217	54.63
21279	3400	1511	11.18	1575	14.14	1649	17.98	1717	21.73	1781	25.55	1852	29.78	1987	38.59	2121	47.70	2252	57.33
22530	3600	1593	12.91	1652	15.96	1721	19.85	1787	23.90	1849	27.85	1912	32.08	2041	41.25	2169	50.74	2295	60.53
23782	3800	1674	14.83	1731	18.03	1794	21.87	1859	26.22	1919	30.36	1975	34.59	2101	44.02	2221	53.91	2341	64.06
25034	4000	1756	16.94	1811	20.29	1868	24.06	1931	28.58	1989	33.05	2045	37.44	2161	46.96	2275	57.24	2390	67.75
26286	4200			1891	22.76	1942	26.42	2003	31.12	2061	35.95	2115	40.49	2221	50.07	2334	60.66	2443	71.60
27537	4400			1972	25.44	2020	29.19	2076	33.84	2133	38.85	2186	43.75	2285	53.47	2394	64.27		

PBCS-330

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 33.00"
 WHEEL CIRCUMFERENCE: 8.64'
 TIP SPEED (FPM) = 8.64 x RPM
 MAX BHP = 8.085 x (RPM/1000)³

American Fan Company



TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	1274	1662	2227	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1210	1579	2116	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1045	1363	1826	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	866	1130	1514	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	790	1031	1381	316L S.S.*

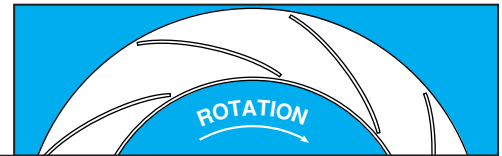
CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7572	1000	594	1.69	789	3.72	955	6.10												
9087	1200	638	2.06	806	4.22	965	6.75	1105	9.59										
10602	1400	691	2.48	838	4.75	982	7.49	1115	10.45	1238	13.71	1350	17.17						
12116	1600	748	2.99	879	5.45	1008	8.26	1132	11.44	1249	14.81	1360	18.45						
13631	1800	812	3.61	928	6.24	1043	9.15	1156	12.47	1267	16.06	1373	19.82	1568	27.99	1742	36.86		
15145	2000	878	4.32	982	7.10	1087	10.25	1188	13.56	1291	17.35	1390	21.33	1578	29.74	1752	38.99	1910	48.82
16660	2200	944	5.12	1039	8.09	1135	11.44	1230	14.96	1322	18.69	1415	22.88	1596	31.72	1762	41.15	1920	51.37
18174	2400	1011	6.03	1102	9.27	1189	12.71	1276	16.48	1363	20.37	1447	24.49	1613	33.78	1779	43.58	1930	53.97
19689	2600	1082	7.16	1167	10.60	1244	14.12	1327	18.09	1407	22.22	1487	26.47	1644	35.85	1796	46.13	1946	56.86
21204	2800	1154	8.48	1232	12.02	1305	15.76	1381	19.83	1455	24.20	1530	28.66	1676	38.03	1821	48.70	1963	59.89
22718	3000	1227	9.97	1298	13.55	1369	17.61	1436	21.72	1509	26.27	1577	30.99	1716	40.72	1852	51.35	1984	62.98
24233	3200	1300	11.65	1364	15.25	1434	19.64	1497	23.88	1563	28.51	1629	33.44	1759	43.63	1886	54.23	2016	66.11
25747	3400	1374	13.53	1432	17.11	1499	21.76	1560	26.30	1619	30.92	1683	36.03	1806	46.69	1928	57.72	2047	69.37
27262	3600	1448	15.63	1502	19.31	1565	24.01	1625	28.92	1681	33.70	1739	38.81	1856	49.92	1972	61.39	2086	73.24
28777	3800	1522	17.94	1574	21.81	1631	26.46	1690	31.73	1744	36.73	1796	41.85	1910	53.26	2019	65.23	2128	77.52
30291	4000	1597	20.50	1646	24.55	1698	29.11	1755	34.58	1809	39.99	1859	45.30	1964	56.82	2068	69.26	2173	81.98
31806	4200			1719	27.53	1765	31.97	1821	37.65	1874	43.50	1923	48.99	2019	60.59	2122	73.40	2221	86.64
33320	4400			1792	30.78	1836	35.32	1887	40.94	1939	47.01	1987	52.94	2077	64.70	2176	77.77		

PBCS-365

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 36.50"
 WHEEL CIRCUMFERENCE: 9.56'
 TIP SPEED (FPM) = 9.56 x RPM
 MAX BHP = 13.384 x (RPM/1000)³

American Fan Company



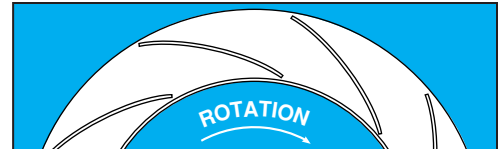
TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	1152	1502	2014	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1094	1427	1913	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	945	1232	1651	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	783	1022	1370	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	714	931	1248	316L S.S.*

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9264	1000	537	2.07	714	4.55	863	7.46												
11117	1200	577	2.52	729	5.17	873	8.25	999	11.73										
12970	1400	624	3.03	757	5.81	888	9.16	1008	12.78	1119	16.77	1220	21.00						
14823	1600	677	3.65	795	6.67	911	10.11	1024	14.00	1130	18.12	1229	22.57						
16676	1800	735	4.42	839	7.63	943	11.20	1045	15.26	1145	19.65	1241	24.24	1417	34.24	1575	45.10		
18528	2000	793	5.29	888	8.69	982	12.54	1074	16.59	1167	21.22	1257	26.09	1427	36.38	1584	47.69	1726	59.72
20381	2200	853	6.26	939	9.89	1026	13.99	1112	18.30	1196	22.87	1280	27.99	1443	38.81	1593	50.35	1736	62.84
22234	2400	914	7.38	996	11.34	1075	15.55	1154	20.16	1232	24.92	1308	29.96	1458	41.33	1608	53.32	1745	66.02
24087	2600	978	8.76	1055	12.97	1125	17.27	1200	22.14	1272	27.18	1344	32.38	1486	43.85	1624	56.43	1759	69.55
25940	2800	1043	10.37	1114	14.70	1180	19.28	1249	24.26	1315	29.61	1383	35.06	1515	46.52	1646	59.58	1775	73.27
27793	3000	1109	12.20	1173	16.58	1238	21.54	1299	26.57	1364	32.14	1426	37.92	1551	49.81	1675	62.82	1794	77.05
29646	3200	1175	14.26	1233	18.65	1296	24.03	1353	29.22	1413	34.88	1473	40.91	1590	53.38	1706	66.35	1822	80.87
31499	3400	1242	16.56	1294	20.94	1355	26.62	1411	32.17	1463	37.83	1522	44.08	1633	57.12	1743	70.61	1851	84.86
33352	3600	1309	19.12	1358	23.63	1415	29.38	1469	35.38	1519	41.23	1572	47.48	1678	61.07	1783	75.11	1886	89.60
35204	3800	1376	21.95	1423	26.69	1475	32.37	1528	38.82	1577	44.93	1624	51.20	1727	65.16	1825	79.80	1924	94.83
37057	4000	1444	25.07	1489	30.03	1535	35.61	1587	42.31	1635	48.93	1681	55.41	1776	69.51	1870	84.73	1965	100.29
38910	4200			1554	33.68	1596	39.11	1646	46.06	1694	53.22	1738	59.93	1826	74.12	1918	89.79	2008	105.99
40763	4400			1621	37.66	1660	43.21	1706	50.09	1753	57.51	1797	64.77	1878	79.15	1968	95.14		

PBCS-402

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 40.25"
 WHEEL CIRCUMFERENCE: 10.54'
 TIP SPEED (FPM) = 10.54 x RPM
 MAX BHP = 21.824 x (RPM/1000)³



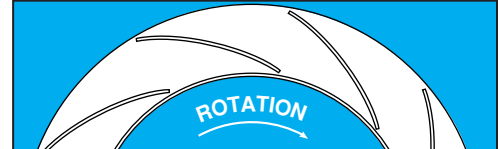
TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	1044	1362	1826	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	992	1294	1735	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	856	1117	1497	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	710	926	1242	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	647	845	1132	316L S.S.*

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11265	1000	487	2.52	647	5.53	783	9.08												
13519	1200	523	3.06	661	6.28	791	10.04	906	14.26										
15772	1400	566	3.69	687	7.07	805	11.14	914	15.54	1015	20.39	1106	25.54						
18025	1600	614	4.44	721	8.11	826	12.29	928	17.02	1024	22.03	1115	27.44						
20278	1800	666	5.38	761	9.28	855	13.62	948	18.55	1039	23.89	1125	29.48	1285	41.64	1428	54.84		
22531	2000	719	6.43	805	10.57	891	15.24	974	20.17	1058	25.81	1140	31.73	1294	44.24	1437	58.00	1566	72.62
24785	2200	774	7.61	852	12.03	931	17.01	1008	22.26	1084	27.81	1160	34.03	1308	47.19	1445	61.22	1574	76.41
27038	2400	829	8.97	904	13.79	975	18.91	1046	24.51	1117	30.30	1186	36.43	1322	50.25	1458	64.84	1583	80.28
29291	2600	887	10.65	956	15.77	1020	21.00	1088	26.92	1154	33.05	1219	39.37	1348	53.33	1473	68.62	1595	84.58
31544	2800	946	12.61	1010	17.88	1070	23.45	1132	29.50	1193	36.00	1254	42.64	1374	56.57	1493	72.45	1610	89.09
33797	3000	1006	14.83	1064	20.16	1123	26.20	1178	32.31	1237	39.08	1293	46.11	1407	60.57	1519	76.39	1627	93.70
36050	3200	1066	17.34	1119	22.68	1176	29.22	1227	35.53	1282	42.41	1336	49.74	1442	64.91	1547	80.68	1653	98.34
38304	3400	1126	20.13	1174	25.46	1229	32.37	1279	39.12	1327	46.00	1380	53.60	1481	69.46	1581	85.87	1679	103.19
40557	3600	1187	23.25	1231	28.73	1283	35.72	1332	43.02	1378	50.13	1425	57.74	1521	74.26	1616	91.33	1710	108.95
42810	3800	1248	26.69	1290	32.45	1337	39.36	1385	47.20	1430	54.64	1472	62.26	1566	79.24	1655	97.04	1745	115.32
45063	4000	1309	30.49	1350	36.52	1392	43.30	1439	51.45	1483	59.50	1524	67.39	1610	84.52	1696	103.03	1782	121.95
47316	4200			1410	40.96	1447	47.56	1493	56.01	1536	64.71	1576	72.88	1656	90.14	1740	109.19	1821	128.88
49570	4400			1470	45.79	1505	52.55	1547	60.91	1589	69.94	1629	78.76	1703	96.25	1784	115.69		

PBCS-445

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 44.50"
 WHEEL CIRCUMFERENCE: 11.65'
 TIP SPEED (FPM) = 11.65 x RPM
 MAX BHP = 38.122 x (RPM/1000)³



TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	944	1232	1652	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	897	1170	1569	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	774	1010	1355	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	642	838	1123	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	585	764	1024	316L S.S.*

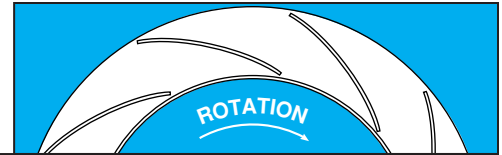
CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13770	1000	441	3.08	585	6.76	708	11.10												
16524	1200	473	3.75	598	7.68	716	12.27	819	17.43										
19278	1400	512	4.51	621	8.64	728	13.61	827	19.00	918	24.93	1001	31.22						
22033	1600	555	5.43	652	9.92	747	15.03	840	20.80	927	26.93	1008	33.54						
24787	1800	602	6.57	688	11.35	774	16.65	857	22.68	939	29.20	1018	36.03	1163	50.90	1292	67.04		
27541	2000	651	7.86	728	12.91	806	18.63	881	24.66	957	31.55	1031	38.78	1170	54.07	1299	70.89	1416	88.77
30295	2200	700	9.31	770	14.71	842	20.79	912	27.21	981	33.99	1050	41.60	1183	57.68	1307	74.83	1424	93.40
33049	2400	750	10.97	817	16.86	882	23.11	946	29.96	1010	37.04	1073	44.53	1196	61.43	1319	79.25	1431	98.13
35803	2600	802	13.02	865	19.28	923	25.67	984	32.90	1043	40.40	1102	48.13	1219	65.19	1332	83.87	1443	103.39
38557	2800	856	15.42	913	21.85	968	28.66	1024	36.06	1079	44.01	1135	52.12	1243	69.15	1350	88.56	1456	108.90
41311	3000	910	18.13	962	24.64	1015	32.02	1065	39.49	1119	47.77	1170	56.36	1273	74.04	1374	93.37	1471	114.53
44066	3200	964	21.19	1012	27.73	1063	35.72	1110	43.43	1159	51.84	1208	60.80	1304	79.34	1399	98.62	1495	120.21
46820	3400	1019	24.61	1062	31.12	1112	39.57	1157	47.82	1200	56.22	1248	65.52	1339	84.91	1430	104.96	1518	126.14
49574	3600	1074	28.41	1114	35.12	1160	43.67	1205	52.59	1246	61.28	1289	70.58	1376	90.77	1462	111.64	1547	133.18
52328	3800	1129	32.63	1167	39.66	1210	48.11	1253	57.70	1293	66.79	1332	76.10	1416	96.85	1497	118.62	1578	140.95
55082	4000	1184	37.27	1221	44.64	1259	52.93	1302	62.89	1341	72.72	1379	82.37	1457	103.32	1534	125.94	1611	149.07
57836	4200			1275	50.07	1309	58.13	1350	68.46	1389	79.10	1426	89.09	1498	110.18	1574	133.47	1647	157.54
60590	4400			1329	55.97	1362	64.23	1400	74.45	1438	85.49	1474	96.27	1541	117.65	1614	141.41		

PBCS-490

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 49.00"
 WHEEL CIRCUMFERENCE: 12.83'
 TIP SPEED (FPM) = 12.83 x RPM
 MAX BHP = 58.357 x (RPM/1000)³

American Fan Company



TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	858	1119	1500	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	815	1063	1425	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	704	918	1230	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	583	761	1020	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	532	694	930	316L S.S.*

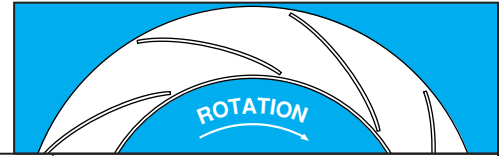
CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16696	1000	400	3.74	531	8.20	643	13.45												
20035	1200	430	4.54	543	9.31	650	14.87	744	21.13										
23375	1400	465	5.46	564	10.48	661	16.51	751	23.04	834	30.22	909	37.85						
26714	1600	504	6.58	592	12.03	679	18.22	762	25.22	841	32.65	916	40.67						
30053	1800	547	7.97	625	13.76	702	20.18	779	27.50	853	35.41	924	43.69	1056	61.72	1173	81.28		
33393	2000	591	9.53	661	15.66	732	22.59	800	29.90	869	38.25	936	47.03	1063	65.56	1180	85.96	1286	107.63
36732	2200	636	11.28	700	17.83	765	25.21	828	32.99	891	41.22	953	50.44	1075	69.94	1187	90.73	1293	113.25
40071	2400	681	13.30	742	20.44	801	28.03	859	36.33	918	44.91	975	54.00	1086	74.48	1198	96.09	1300	118.98
43411	2600	728	15.78	786	23.37	838	31.13	894	39.90	948	48.99	1001	58.35	1107	79.04	1210	101.70	1311	125.35
46750	2800	777	18.69	830	26.50	879	34.75	930	43.72	980	53.36	1030	63.19	1128	83.84	1226	107.37	1322	132.04
50089	3000	826	21.99	874	29.88	922	38.83	967	47.88	1016	57.92	1062	68.33	1156	89.77	1248	113.21	1336	138.86
53428	3200	876	25.69	919	33.62	966	43.31	1008	52.65	1053	62.85	1097	73.72	1184	96.20	1270	119.57	1357	145.75
56768	3400	925	29.84	964	37.73	1010	47.98	1051	57.98	1090	68.17	1134	79.44	1216	102.95	1299	127.26	1379	152.94
60107	3600	975	34.45	1012	42.58	1054	52.94	1094	63.76	1132	74.30	1171	85.58	1250	110.06	1328	135.36	1405	161.47
63446	3800	1025	39.56	1060	48.09	1098	58.34	1138	69.96	1175	80.98	1209	92.27	1286	117.43	1360	143.82	1433	170.90
66786	4000	1075	45.19	1109	54.12	1144	64.18	1182	76.25	1218	88.17	1252	99.87	1323	125.27	1393	152.70	1463	180.74
70125	4200			1158	60.71	1189	70.49	1226	83.01	1262	95.91	1295	108.01	1360	133.59	1429	161.82	1496	191.01
73464	4400			1207	67.87	1237	77.88	1271	90.27	1306	103.65	1338	116.73	1399	142.65	1466	171.46		

PBCS-542

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 54.25"
 WHEEL CIRCUMFERENCE: 14.20'
 TIP SPEED (FPM) = 14.20 x RPM
 MAX BHP = 97.076 x (RPM/1000)³

American Fan Company



TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	775	1011	1355	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	736	960	1287	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	636	829	1111	Mild steel*, Corten, 304L S.S., 316L S.S.
701°F TO 900°F	527	688	921	Corten*, 304L S.S., 316L S.S.
901°F TO 1000°F	480	627	840	316L S.S.*

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20466	1000	361	4.58	480	10.05	581	16.49												
24559	1200	388	5.57	491	11.41	587	18.23	672	25.91										
28652	1400	420	6.70	510	12.85	597	20.23	678	28.24	753	37.05	821	46.40						
32745	1600	455	8.07	535	14.74	613	22.33	689	30.92	760	40.02	827	49.85						
36838	1800	494	9.77	564	16.86	634	24.74	703	33.70	771	43.40	835	53.55	954	75.65	1060	99.63		
40932	2000	534	11.68	597	19.19	661	27.69	723	36.64	785	46.88	846	57.64	960	80.37	1066	105.36	1162	131.93
45025	2200	574	13.83	632	21.86	691	30.90	748	40.44	804	50.52	861	61.82	971	85.73	1072	111.22	1168	138.82
49118	2400	615	16.30	670	25.06	723	34.35	776	44.53	829	55.05	880	66.19	981	91.29	1082	117.78	1174	145.84
53211	2600	658	19.35	710	28.65	757	38.16	807	48.90	856	60.05	904	71.53	1000	96.88	1093	124.65	1184	153.65
57304	2800	702	22.91	749	32.48	794	42.60	840	53.59	885	65.41	931	77.46	1019	102.76	1108	131.61	1194	161.85
61398	3000	746	26.95	789	36.63	833	47.59	874	58.69	918	71.00	960	83.76	1044	110.04	1127	138.76	1207	170.22
65491	3200	791	31.49	830	41.21	872	53.09	911	64.54	951	77.04	991	90.37	1070	117.92	1147	146.57	1226	178.65
69584	3400	836	36.57	871	46.25	912	58.81	949	71.07	985	83.56	1024	97.38	1099	126.19	1173	155.99	1245	187.47
73677	3600	881	42.23	914	52.20	952	64.90	988	78.16	1022	91.08	1058	104.90	1129	134.90	1199	165.92	1269	197.93
77771	3800	926	48.49	957	58.95	992	71.51	1028	85.75	1061	99.26	1092	113.10	1162	143.94	1228	176.29	1295	209.49
81864	4000	971	55.39	1002	66.34	1033	78.67	1068	93.46	1100	108.08	1131	122.42	1195	153.55	1258	187.17	1322	221.54
85957	4200			1046	74.41	1074	86.40	1108	101.75	1140	117.56	1170	132.40	1228	163.75	1291	198.36	1351	234.14
90050	4400			1090	83.19	1117	95.46	1148	110.65	1179	127.05	1209	143.08	1264	174.85	1324	210.17		

PBCA-182

UNHOUSED PLUG FAN PERFORMANCE

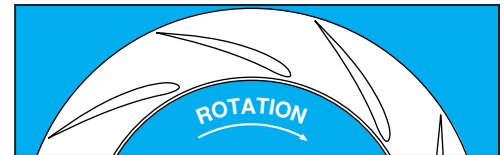
AIR DENSITY: 0.075 LBS./CU. FT.

WHEEL DIAMETER: 18.25"

WHEEL CIRCUMFERENCE: 4.78'

TIP SPEED (FPM) = 4.78 x RPM

MAX BHP = 0.423 x (RPM/1000)³



TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	2346	3061	3825	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	2229	2908	3634	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1924	2510	3137	Mild steel*, Corten, 304L S.S., 316L S.S.

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2314	1000	1050	0.49																
2777	1200	1137	0.60	1405	1.15														
3240	1400	1238	0.74	1479	1.37														
3702	1600	1346	0.90	1562	1.58	1768	2.32												
4165	1800	1463	1.09	1659	1.84	1845	2.64	2024	3.47										
4628	2000	1586	1.33	1761	2.11	1932	2.99	2099	3.90	2259	4.82	2406	5.74						
5091	2200	1712	1.60	1868	2.42	2029	3.37	2180	4.33	2333	5.36	2478	6.37						
5554	2400	1841	1.91	1983	2.79	2131	3.77	2274	4.84	2412	5.88	2552	7.02	2810	9.21				
6017	2600	1970	2.28	2101	3.21	2235	4.21	2373	5.34	2503	6.48	2630	7.63	2883	10.06	3112	12.45		
6480	2800	2103	2.68	2225	3.68	2348	4.73	2475	5.88	2599	7.13	2719	8.34	2958	10.92	3184	13.48		
6942	3000	2237	3.14	2351	4.21	2464	5.31	2579	6.47	2700	7.77	2814	9.13	3036	11.74	3257	14.58	3464	17.29
7405	3200	2371	3.66	2478	4.79	2582	5.95	2693	7.16	2803	8.47	2914	9.88	3124	12.68	3334	15.61	3536	18.59
7868	3400	2506	4.23	2607	5.43	2707	6.65	2808	7.92	2909	9.23	3016	10.68	3218	13.71	3413	16.66	3611	19.89
8331	3600	2642	4.87	2736	6.15	2833	7.42	2926	8.74	3023	10.11	3120	11.55	3317	14.72	3504	17.85	3689	21.11
8794	3800	2778	5.58	2868	6.92	2959	8.26	3047	9.64	3139	11.06	3229	12.52	3418	15.76	3598	19.15	3771	22.41
9257	4000	2915	6.36	3001	7.76	3087	9.18	3172	10.61	3256	12.08	3344	13.60	3521	16.86	3696	20.42		
9720	4200	3052	7.22	3135	8.68	3216	10.17	3298	11.66	3376	13.19	3460	14.76	3625	18.04	3797	21.70		
10182	4400			3269	9.68	3346	11.24	3425	12.79	3501	14.38	3578	16.00	3736	19.36				

PBCA-200

UNHOUSED PLUG FAN PERFORMANCE

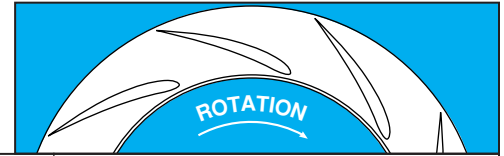
AIR DENSITY: 0.075 LBS./CU. FT.

WHEEL DIAMETER: 20.00"

WHEEL CIRCUMFERENCE: 5.24'

TIP SPEED (FPM) = 5.24 x RPM

MAX BHP = 0.669 x (RPM/1000)³



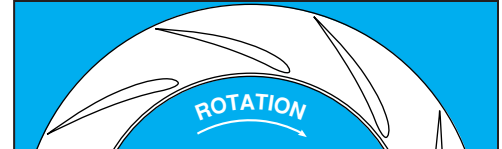
TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	2141	2793	3490	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	2034	2653	3316	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1756	2290	2862	Mild steel*, Corten, 304L S.S., 316L S.S.

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2779	1000	958	0.59																
3335	1200	1037	0.73	1282	1.38														
3891	1400	1129	0.88	1349	1.64														
4447	1600	1228	1.07	1425	1.90	1613	2.79												
5002	1800	1335	1.31	1513	2.21	1683	3.17	1847	4.17										
5558	2000	1447	1.59	1607	2.53	1763	3.59	1916	4.69	2061	5.79	2195	6.90						
6114	2200	1563	1.92	1704	2.91	1851	4.05	1989	5.20	2129	6.44	2261	7.65						
6670	2400	1680	2.30	1810	3.35	1944	4.53	2075	5.81	2201	7.06	2328	8.43	2564	11.06				
7226	2600	1798	2.73	1917	3.85	2039	5.05	2165	6.42	2284	7.79	2400	9.17	2630	12.08	2840	14.95		
7782	2800	1919	3.22	2030	4.42	2143	5.68	2259	7.06	2372	8.56	2481	10.02	2699	13.12	2905	16.19		
8338	3000	2041	3.77	2145	5.05	2249	6.38	2353	7.77	2464	9.33	2568	10.96	2771	14.10	2972	17.51	3161	20.77
8894	3200	2164	4.39	2262	5.75	2356	7.14	2457	8.60	2558	10.17	2659	11.86	2851	15.22	3042	18.75	3227	22.32
9450	3400	2287	5.09	2379	6.53	2470	7.99	2563	9.51	2654	11.08	2752	12.83	2937	16.46	3114	20.01	3295	23.89
10005	3600	2411	5.85	2497	7.38	2585	8.91	2670	10.50	2759	12.14	2847	13.87	3027	17.68	3197	21.44	3367	25.35
10561	3800	2535	6.70	2617	8.31	2700	9.92	2780	11.58	2864	13.28	2947	15.04	3119	18.93	3283	23.00	3441	26.91
11117	4000	2660	7.64	2738	9.32	2817	11.02	2894	12.74	2971	14.51	3052	16.33	3213	20.25	3373	24.52		
11673	4200	2785	8.67	2860	10.43	2935	12.21	3009	14.00	3081	15.84	3158	17.73	3308	21.67	3465	26.06		
12229	4400			2983	11.62	3053	13.50	3125	15.36	3195	17.27	3265	19.22	3409	23.25				

PBCA-222

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 22.25"
 WHEEL CIRCUMFERENCE: 5.83'
 TIP SPEED (FPM) = 5.83 x RPM
 MAX BHP = 1.134 x (RPM/1000)³



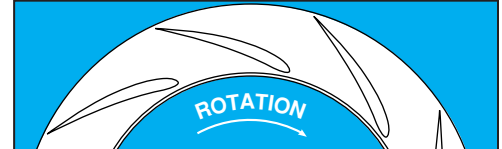
TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS *(indicates std. material for this temperature range)
	CLASS 1	CLASS 2	CLASS 3	
UP TO 250°F	1922	2508	3124	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1826	2383	2968	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1576	2056	2562	Mild steel*, Corten, 304L S.S., 316L S.S.

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3443	1000	861	0.72																
4132	1200	933	0.89	1153	1.70														
4820	1400	1016	1.09	1213	2.02														
5509	1600	1105	1.32	1282	2.35	1451	3.44												
6198	1800	1201	1.62	1361	2.72	1514	3.90	1661	5.14										
6886	2000	1302	1.96	1445	3.12	1586	4.42	1722	5.77	1853	7.13	1974	8.50						
7575	2200	1406	2.36	1533	3.58	1665	4.99	1789	6.41	1914	7.94	2033	9.42						
8264	2400	1511	2.83	1628	4.13	1749	5.58	1866	7.16	1979	8.70	2094	10.39	2306	13.63				
8952	2600	1618	3.36	1724	4.75	1834	6.23	1948	7.91	2054	9.60	2158	11.30	2365	14.89	2554	18.42		
9641	2800	1726	3.95	1827	5.44	1928	7.00	2031	8.70	2133	10.55	2231	12.35	2427	16.16	2613	19.95		
10330	3000	1836	4.62	1930	6.21	2023	7.85	2117	9.58	2216	11.50	2309	13.51	2491	17.38	2672	21.59	2842	25.60
11018	3200	1947	5.38	2035	7.07	2120	8.80	2210	10.59	2301	12.53	2392	14.61	2564	18.76	2736	23.11	2901	27.51
11707	3400	2058	6.22	2140	8.02	2222	9.83	2305	11.71	2387	13.66	2476	15.81	2641	20.29	2801	24.65	2963	29.44
12396	3600	2169	7.15	2246	9.07	2325	10.97	2401	12.93	2482	14.96	2561	17.09	2722	21.78	2875	26.43	3027	31.24
13084	3800	2281	8.18	2354	10.21	2429	12.20	2501	14.25	2577	16.36	2651	18.53	2806	23.32	2952	28.34	3095	33.17
13773	4000	2393	9.32	2464	11.44	2534	13.55	2604	15.68	2673	17.87	2745	20.12	2890	24.96	3033	30.21		
14462	4200	2506	10.56	2573	12.78	2640	15.01	2707	17.23	2772	19.50	2840	21.83	2975	26.70	3116	32.11		
15150	4400			2684	14.23	2746	16.59	2812	18.89	2874	21.25	2937	23.67	3066	28.65				

PBCA-245

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 24.5"
 WHEEL CIRCUMFERENCE: 6.41'
 TIP SPEED (FPM) = 6.41 x RPM
 MAX BHP = 1.835 x (RPM/1000)³



TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS *(indicates std. material for this temperature range)
	CLASS 1	CLASS 2	CLASS 3	
UP TO 250°F	1745	2278	2837	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1658	2164	2695	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1431	1868	2326	Mild steel*, Corten, 304L S.S., 316L S.S.

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4175	1000	782	0.88																
5010	1200	847	1.08	1047	2.07														
5845	1400	922	1.32	1102	2.45														
6680	1600	1004	1.61	1164	2.84	1318	4.17												
7515	1800	1090	1.96	1236	3.30	1375	4.73	1508	6.23										
8350	2000	1182	2.38	1312	3.78	1440	5.36	1564	7.00	1683	8.65	1793	10.31						
9185	2200	1277	2.86	1392	4.34	1512	6.05	1625	7.77	1738	9.62	1846	11.42						
10020	2400	1372	3.43	1479	5.01	1588	6.76	1695	8.68	1797	10.55	1901	12.60	2094	16.53				
10855	2600	1469	4.07	1566	5.76	1666	7.55	1769	9.59	1865	11.64	1960	13.70	2148	18.06	2319	22.34		
11690	2800	1568	4.79	1659	6.60	1751	8.48	1845	10.55	1937	12.79	2026	14.97	2204	19.60	2373	24.19		
12525	3000	1668	5.61	1753	7.53	1837	9.52	1922	11.61	2013	13.95	2097	16.38	2263	21.07	2427	26.17	2581	31.04
13360	3200	1768	6.52	1848	8.58	1925	10.67	2007	12.85	2089	15.19	2172	17.72	2328	22.75	2484	28.02	2635	33.36
14195	3400	1869	7.54	1944	9.73	2018	11.92	2094	14.20	2168	16.56	2248	19.17	2399	24.60	2543	29.89	2691	35.69
15030	3600	1970	8.67	2040	11.00	2112	13.30	2181	15.68	2254	18.13	2326	20.72	2472	26.41	2611	32.04	2749	37.87
15865	3800	2071	9.92	2138	12.38	2206	14.80	2272	17.28	2340	19.84	2407	22.46	2548	28.27	2681	34.36	2810	40.22
16700	4000	2173	11.29	2237	13.87	2302	16.43	2365	19.01	2427	21.67	2493	24.40	2625	30.26	2755	36.63		
17535	4200	2276	12.80	2337	15.49	2398	18.20	2459	20.89	2517	23.65	2580	26.47	2702	32.37	2830	38.94		
18370	4400			2437	17.25	2494	20.12	2553	22.91	2610	25.77	2667	28.70	2785	34.74				

PBCA-270

UNHOUSED PLUG FAN PERFORMANCE

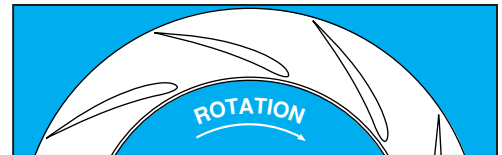
AIR DENSITY: 0.075 LBS./CU. FT.

WHEEL DIAMETER: 27.00"

WHEEL CIRCUMFERENCE: 7.10'

TIP SPEED (FPM) = 7.10 x RPM

MAX BHP = 2.983 x (RPM/1000)³



TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	1584	2067	2574	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1505	1964	2445	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1299	1695	2111	Mild steel*, Corten, 304L S.S., 316L S.S.

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5070	1000	710	1.06																
6084	1200	769	1.32	950	2.51														
7098	1400	837	1.60	1000	2.98														
8112	1600	911	1.95	1056	3.45	1196	5.06												
9126	1800	989	2.38	1122	4.01	1247	5.75	1369	7.57										
10141	2000	1073	2.89	1191	4.59	1307	6.51	1419	8.50	1527	10.51	1627	12.52						
11155	2200	1158	3.48	1264	5.27	1372	7.35	1474	9.43	1577	11.69	1675	13.88						
12169	2400	1245	4.16	1342	6.08	1441	8.21	1538	10.54	1631	12.81	1725	15.30	1900	20.07				
13183	2600	1333	4.95	1421	6.99	1511	9.17	1605	11.64	1693	14.13	1779	16.64	1949	21.93	2104	27.13		
14197	2800	1423	5.82	1505	8.01	1588	10.30	1674	12.82	1758	15.54	1839	18.18	2000	23.80	2153	29.38		
15211	3000	1513	6.81	1590	9.15	1667	11.57	1744	14.10	1826	16.94	1903	19.89	2053	25.59	2202	31.79	2342	37.70
16225	3200	1604	7.92	1677	10.41	1747	12.95	1821	15.60	1896	18.45	1971	21.52	2113	27.63	2254	34.03	2391	40.52
17239	3400	1696	9.15	1764	11.82	1831	14.48	1900	17.25	1967	20.11	2040	23.28	2177	29.88	2308	36.30	2442	43.35
18253	3600	1787	10.53	1851	13.36	1916	16.15	1979	19.04	2045	22.02	2110	25.17	2243	32.08	2369	38.91	2495	46.00
19268	3800	1880	12.05	1940	15.03	2002	17.97	2061	20.99	2123	24.09	2184	27.28	2312	34.34	2433	41.73	2550	48.85
20282	4000	1972	13.72	2030	16.84	2089	19.95	2146	23.09	2203	26.32	2262	29.63	2381	36.75	2500	44.49		
21296	4200	2065	15.55	2121	18.81	2176	22.11	2231	25.37	2284	28.72	2341	32.15	2452	39.31	2568	47.29		
22310	4400			2211	20.96	2263	24.43	2317	27.82	2368	31.30	2420	34.85	2527	42.19				

PBCA-300

UNHOUSED PLUG FAN PERFORMANCE

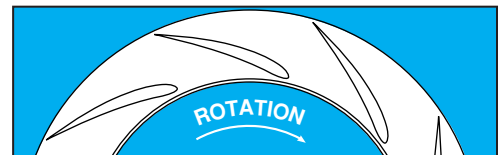
AIR DENSITY: 0.075 LBS./CU. FT.

WHEEL DIAMETER: 30.00"

WHEEL CIRCUMFERENCE: 7.85'

TIP SPEED (FPM) = 7.85 x RPM

MAX BHP = 4.959 x (RPM/1000)³



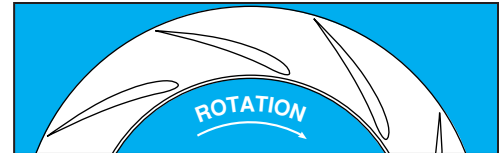
TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	1429	1864	2482	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1358	1771	2358	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1172	1528	2035	Mild steel*, Corten, 304L S.S., 316L S.S.

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6258	1000	639	1.29																
7510	1200	692	1.59	855	3.04														
8762	1400	753	1.94	900	3.61														
10013	1600	819	2.36	951	4.18	1076	6.14												
11265	1800	890	2.87	1009	4.85	1123	6.97	1232	9.17										
12517	2000	965	3.47	1072	5.56	1176	7.88	1277	10.30	1374	12.73	1464	15.17						
13768	2200	1042	4.17	1137	6.37	1235	8.89	1327	11.43	1420	14.16	1508	16.81						
15020	2400	1121	4.98	1207	7.34	1297	9.93	1384	12.76	1468	15.52	1553	18.54	1710	24.32				
16272	2600	1199	5.91	1279	8.43	1360	11.09	1444	14.09	1523	17.12	1601	20.16	1754	26.57	1894	32.88		
17524	2800	1280	6.91	1354	9.64	1429	12.45	1506	15.51	1582	18.81	1655	22.02	1800	28.84	1937	35.61		
18775	3000	1362	8.04	1431	10.98	1500	13.96	1570	17.05	1643	20.49	1712	24.08	1848	31.01	1982	38.52	2108	45.68
20027	3200	1443	9.31	1509	12.48	1572	15.62	1639	18.85	1706	22.32	1774	26.05	1901	33.46	2029	41.23	2152	49.09
21279	3400	1526	10.72	1587	14.14	1648	17.42	1709	20.82	1770	24.32	1836	28.16	1959	36.17	2077	43.99	2197	52.52
22530	3600	1608	12.29	1666	15.96	1724	19.40	1781	22.96	1840	26.60	1899	30.44	2019	38.83	2132	47.13	2245	55.73
23782	3800	1691	14.02	1746	17.90	1801	21.56	1855	25.28	1911	29.08	1966	32.97	2081	41.55	2189	50.53	2295	59.18
25034	4000	1775	15.92	1827	19.98	1879	23.90	1931	27.77	1982	31.75	2036	35.79	2143	44.45	2249	53.85	2352	63.08
26286	4200	1858	18.00	1908	22.24	1958	26.44	2008	30.47	2055	34.61	2106	38.80	2206	47.54	2311	57.22	2409	67.21
27537	4400			1990	24.69	2037	29.19	2085	33.37	2131	37.66	2178	42.03	2274	50.99	2373	60.79	2470	71.15

PBCA-330

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 33.00"
 WHEEL CIRCUMFERENCE: 8.64'
 TIP SPEED (FPM) = 8.64 x RPM
 MAX BHP = 7.987 x (RPM/1000)³



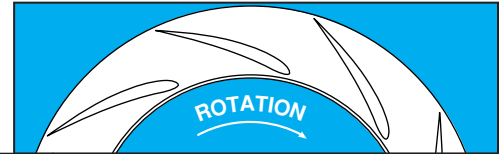
TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS *(indicates std. material for this temperature range)
	CLASS 1	CLASS 2	CLASS 3	
UP TO 250°F	1299	1695	2256	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1234	1610	2143	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	1065	1390	1850	Mild steel*, Corten, 304L S.S., 316L S.S.

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7572	1000	581	1.56																
9087	1200	629	1.93	777	3.68														
10602	1400	685	2.35	818	4.36														
12116	1600	745	2.85	864	5.06	978	7.43												
13631	1800	809	3.47	918	5.87	1021	8.43	1120	11.10										
15145	2000	878	4.20	974	6.72	1069	9.54	1161	12.47	1249	15.40	1331	18.36						
16660	2200	948	5.05	1034	7.71	1123	10.76	1206	13.83	1291	17.14	1371	20.34						
18174	2400	1019	6.03	1098	8.88	1179	12.02	1258	15.44	1334	18.78	1412	22.43	1555	29.43				
19689	2600	1090	7.15	1163	10.20	1236	13.41	1313	17.05	1385	20.71	1455	24.39	1595	32.15	1722	39.79		
21204	2800	1164	8.36	1231	11.66	1299	15.06	1369	18.76	1438	22.76	1504	26.64	1636	34.90	1761	43.09		
22718	3000	1238	9.73	1301	13.29	1364	16.89	1427	20.63	1494	24.80	1557	29.14	1680	37.52	1802	46.60	1916	55.28
24233	3200	1312	11.26	1372	15.10	1429	18.90	1490	22.81	1551	27.01	1612	31.52	1729	40.49	1844	49.88	1956	59.40
25747	3400	1387	12.97	1443	17.10	1498	21.08	1554	25.19	1609	29.42	1669	34.08	1781	43.77	1888	53.22	1998	63.56
27262	3600	1462	14.87	1514	19.31	1567	23.48	1619	27.79	1673	32.19	1726	36.83	1835	46.98	1938	57.03	2041	67.44
28777	3800	1538	16.96	1587	21.66	1638	26.08	1686	30.59	1737	35.18	1787	39.90	1891	50.28	1990	61.14	2086	71.60
30291	4000	1613	19.26	1661	24.17	1708	28.92	1755	33.61	1802	38.41	1851	43.30	1948	53.79	2045	65.16	2138	76.33
31806	4200	1689	21.78	1735	26.91	1780	31.99	1825	36.87	1868	41.87	1915	46.95	2006	57.53	2101	69.24	2190	81.33
33320	4400			1809	29.88	1851	35.32	1895	40.38	1937	45.57	1980	50.86	2067	61.70	2158	73.56	2245	86.09

PBCA-365

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 36.50"
 WHEEL CIRCUMFERENCE: 9.56'
 TIP SPEED (FPM) = 9.56 x RPM
 MAX BHP = 13.222 x (RPM/1000)³



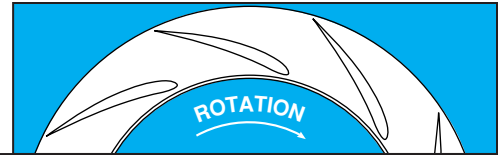
TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS *(indicates std. material for this temperature range)
	CLASS 1	CLASS 2	CLASS 3	
UP TO 250°F	1175	1532	2040	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1116	1455	1938	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	964	1256	1673	Mild steel*, Corten, 304L S.S., 316L S.S.

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9264	1000	525	1.91																
11117	1200	569	2.36	703	4.50														
12970	1400	619	2.87	740	5.34														
14823	1600	674	3.49	781	6.19	884	9.08												
16676	1800	732	4.25	830	7.18	923	10.31	1012	13.58										
18528	2000	793	5.14	881	8.23	966	11.67	1050	15.25	1130	18.85	1203	22.46						
20381	2200	857	6.17	934	9.43	1015	13.17	1090	16.91	1167	20.96	1239	24.89						
22234	2400	921	7.37	992	10.86	1066	14.71	1137	18.89	1206	22.98	1276	27.44	1406	36.01				
24087	2600	986	8.74	1051	12.47	1118	16.41	1187	20.86	1252	25.34	1316	29.84	1442	39.34	1557	48.67		
25940	2800	1052	10.23	1113	14.26	1175	18.42	1238	22.95	1300	27.84	1360	32.59	1479	42.69	1592	52.71		
27793	3000	1119	11.90	1176	16.26	1233	20.66	1290	25.24	1351	30.34	1407	35.64	1519	45.90	1629	57.01	1732	67.62
29646	3200	1186	13.78	1240	18.48	1292	23.12	1347	27.90	1402	33.04	1458	38.55	1563	49.53	1668	61.03	1769	72.67
31499	3400	1254	15.87	1304	20.93	1354	25.79	1405	30.82	1455	36.00	1509	41.69	1610	53.55	1707	65.11	1806	77.75
33352	3600	1322	18.19	1369	23.62	1417	28.72	1464	33.99	1512	39.38	1561	45.06	1659	57.47	1752	69.77	1845	82.50
35204	3800	1390	20.75	1435	26.50	1481	31.91	1524	37.42	1570	43.04	1616	48.81	1710	61.51	1800	74.80	1886	87.60
37057	4000	1459	23.56	1502	29.57	1545	35.38	1587	41.11	1629	46.99	1673	52.97	1761	65.81	1849	79.72	1933	93.37
38910	4200	1527	26.64	1568	32.92	1609	39.14	1650	45.10	1689	51.23	1731	57.44	1813	70.38	1899	84.71	1980	99.49
40763	4400			1636	36.55	1674	43.21	1714	49.40	1752	55.75	1790	62.22	1869	75.48	1951	89.99	2030	105.32

PBCA-402

UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 40.25"
 WHEEL CIRCUMFERENCE: 10.54'
 TIP SPEED (FPM) = 10.54 x RPM
 MAX BHP = 21.560 x (RPM/1000)³



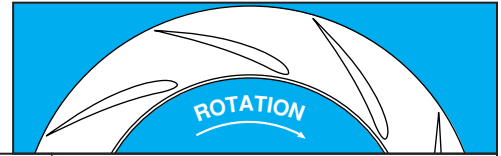
TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS *(indicates std. material for this temperature range)
	CLASS 1	CLASS 2	CLASS 3	
UP TO 250°F	1065	1389	1850	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	1012	1320	1758	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	873	1139	1517	Mild steel*, Corten, 304L S.S., 316L S.S.

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11265	1000	476	2.32																
13519	1200	516	2.87	637	5.47														
15772	1400	561	3.49	671	6.49														
18025	1600	611	4.24	709	7.53	802	11.05												
20278	1800	664	5.17	752	8.74	837	12.54	918	16.51										
22531	2000	720	6.25	799	10.00	876	14.19	952	18.55	1024	22.92	1091	27.31						
24785	2200	777	7.51	847	11.47	920	16.01	989	20.57	1058	25.49	1124	30.27						
27038	2400	835	8.96	900	13.21	967	17.88	1031	22.97	1094	27.94	1157	33.37	1275	43.79				
29291	2600	894	10.63	953	15.17	1014	19.96	1076	25.36	1135	30.81	1193	36.29	1307	47.84	1412	59.19		
31544	2800	954	12.44	1010	17.35	1065	22.41	1123	27.91	1179	33.86	1233	39.63	1341	51.92	1444	64.10		
33797	3000	1015	14.48	1067	19.77	1118	25.12	1170	30.69	1225	36.89	1276	43.34	1377	55.82	1477	69.33	1571	82.23
36050	3200	1076	16.76	1125	22.47	1172	28.11	1222	33.93	1272	40.18	1322	46.88	1417	60.23	1512	74.21	1604	88.37
38304	3400	1137	19.30	1183	25.45	1228	31.37	1274	37.48	1320	43.77	1368	50.69	1460	65.11	1548	79.18	1638	94.55
40557	3600	1199	22.12	1242	28.73	1285	34.92	1327	41.33	1372	47.89	1415	54.79	1505	69.89	1589	84.84	1673	100.32
42810	3800	1261	25.23	1301	32.22	1343	38.80	1382	45.50	1424	52.34	1465	59.36	1551	74.80	1632	90.96	1711	106.52
45063	4000	1323	28.65	1362	35.96	1401	43.02	1439	49.99	1477	57.14	1517	64.42	1597	80.02	1677	96.94	1753	113.55
47316	4200	1385	32.40	1422	40.03	1459	47.59	1496	54.84	1532	62.29	1570	69.85	1644	85.58	1723	103.01	1796	120.99
49570	4400			1483	44.45	1518	52.54	1554	60.07	1588	67.79	1623	75.66	1695	91.78	1769	109.43	1841	128.07

PBCA-445

UNHOUSED PLUG FAN PERFORMANCE

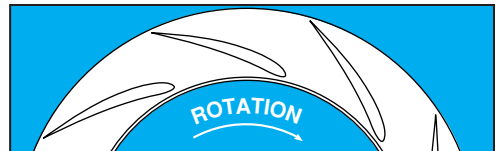
AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 44.50"
 WHEEL CIRCUMFERENCE: 11.65'
 TIP SPEED (FPM) = 11.65 x RPM
 MAX BHP = 35.614 x (RPM/1000)³



TEMPERATURE	MAXIMUM SPEEDS - RPM			AVAILABLE IMPELLER MATERIALS *(indicates std. material for this temperature range)
	CLASS 1	CLASS 2	CLASS 3	
UP TO 250°F	963	1257	1673	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	915	1194	1589	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	790	1031	1372	Mild steel*, Corten, 304L S.S., 316L S.S.

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13770	1000	431	2.83																
16524	1200	466	3.51	576	6.69														
19278	1400	508	4.26	607	7.93														
22033	1600	552	5.18	641	9.20	725	13.50												
24787	1800	600	6.32	680	10.68	757	15.33	830	20.18										
27541	2000	651	7.64	722	12.23	793	17.35	861	22.67	927	28.01	987	33.38						
30295	2200	703	9.18	766	14.02	832	19.57	894	25.14	957	31.16	1016	36.99						
33049	2400	755	10.96	814	16.15	874	21.86	933	28.08	989	34.15	1047	40.79	1153	53.52				
35803	2600	809	13.00	862	18.54	917	24.39	974	31.00	1027	37.66	1079	44.35	1183	58.47	1277	72.35		
38557	2800	863	15.21	913	21.20	964	27.39	1016	34.12	1066	41.38	1116	48.45	1213	63.46	1306	78.35		
41311	3000	918	17.69	965	24.17	1011	30.71	1058	37.52	1108	45.09	1154	52.98	1246	68.23	1336	84.74	1421	100.51
44066	3200	973	20.48	1017	27.46	1060	34.36	1105	41.47	1150	49.11	1196	57.31	1282	73.63	1368	90.71	1451	108.02
46820	3400	1029	23.59	1070	31.10	1111	38.34	1152	45.81	1194	53.50	1238	61.97	1320	79.59	1400	96.78	1481	115.57
49574	3600	1084	27.04	1123	35.11	1162	42.69	1201	50.52	1241	58.54	1280	66.97	1361	85.43	1437	103.70	1514	122.63
52328	3800	1140	30.84	1177	39.38	1214	47.43	1250	55.62	1288	63.98	1325	72.55	1403	91.43	1476	111.18	1547	130.20
55082	4000	1196	35.02	1232	43.96	1267	52.59	1302	61.11	1336	69.85	1372	78.74	1445	97.81	1516	118.49	1585	138.79
57836	4200	1253	39.60	1286	48.93	1320	58.18	1353	67.04	1386	76.14	1420	85.38	1487	104.61	1558	125.91	1624	147.89
60590	4400			1342	54.33	1373	64.22	1406	73.42	1437	82.86	1468	92.49	1533	112.19	1600	133.76	1665	156.55

PBCA-490



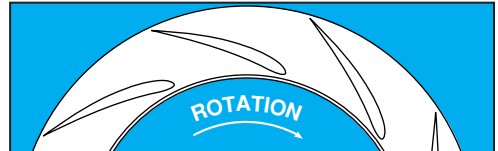
UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 49.00"
 WHEEL CIRCUMFERENCE: 12.83'
 TIP SPEED (FPM) = 12.83 x RPM
 MAX BHP = 57.650 x (RPM/1000)³

TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	875	1141	1520	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	831	1084	1444	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	718	936	1246	Mild steel*, Corten, 304L S.S., 316L S.S.

CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16696	1000	391	3.44																
20035	1200	424	4.26	523	8.11														
23375	1400	461	5.17	551	9.62														
26714	1600	502	6.29	582	11.16	659	16.37												
30053	1800	545	7.66	618	12.95	687	18.59	754	24.47										
33393	2000	591	9.26	656	14.82	720	21.04	782	27.49	841	33.96	896	40.47						
36732	2200	638	11.13	696	17.00	756	23.73	812	30.48	869	37.78	923	44.86						
40071	2400	686	13.29	739	19.58	794	26.50	847	34.04	899	41.41	951	49.45	1047	64.89				
43411	2600	734	15.76	783	22.48	833	29.58	884	37.59	933	45.66	980	53.78	1074	70.89	1159	87.72		
46750	2800	784	18.44	829	25.71	875	33.21	922	41.37	969	50.18	1013	58.74	1102	76.94	1186	94.99		
50089	3000	834	21.45	876	29.30	918	37.23	961	45.49	1006	54.67	1048	64.24	1131	82.73	1213	102.75	1290	121.87
53428	3200	884	24.84	924	33.30	962	41.66	1003	50.28	1045	59.55	1086	69.48	1164	89.27	1242	109.98	1317	130.97
56768	3400	934	28.60	972	37.71	1009	46.49	1047	55.54	1084	64.87	1124	75.13	1199	96.50	1272	117.34	1345	140.12
60107	3600	985	32.78	1020	42.57	1056	51.76	1090	61.26	1127	70.98	1163	81.20	1236	103.58	1305	125.74	1375	148.68
63446	3800	1036	37.39	1069	47.75	1103	57.51	1136	67.44	1170	77.57	1203	87.97	1274	110.85	1341	134.80	1405	157.87
66786	4000	1086	42.46	1118	53.30	1151	63.76	1182	74.09	1213	84.69	1246	95.47	1312	118.60	1377	143.66	1440	168.28
70125	4200	1138	48.01	1168	59.33	1199	70.54	1229	81.28	1258	92.32	1290	103.52	1351	126.83	1415	152.66	1475	179.31
73464	4400			1218	65.87	1247	77.87	1276	89.03	1305	100.47	1333	112.14	1392	136.02	1453	162.18	1512	189.81

PBCA-542



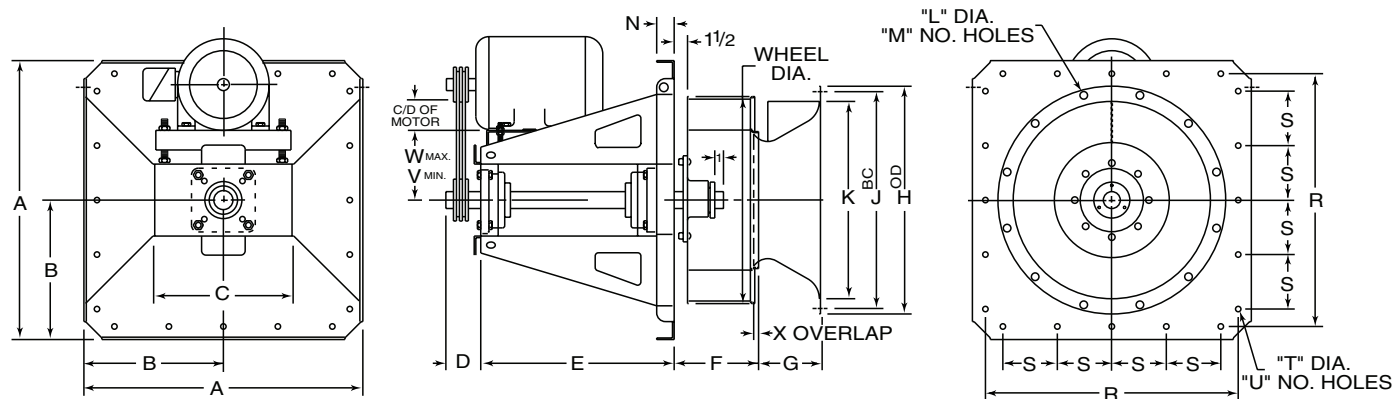
UNHOUSED PLUG FAN PERFORMANCE

AIR DENSITY: 0.075 LBS./CU. FT.
 WHEEL DIAMETER: 54.25"
 WHEEL CIRCUMFERENCE: 14.20'
 TIP SPEED (FPM) = 14.20 x RPM
 MAX BHP = 95.900 x (RPM/1000)³

TEMPERATURE	MAXIMUM SPEEDS – RPM			AVAILABLE IMPELLER MATERIALS
	CLASS 1	CLASS 2	CLASS 3	*(indicates std. material for this temperature range)
UP TO 250°F	790	1031	1373	Mild steel*, Aluminum, Corten, 304L S.S., 316L S.S.
251°F TO 400°F	751	979	1304	Mild steel*, Corten, 304L S.S., 316L S.S.
401°F TO 700°F	648	845	1126	Mild steel*, Corten, 304L S.S., 316L S.S.

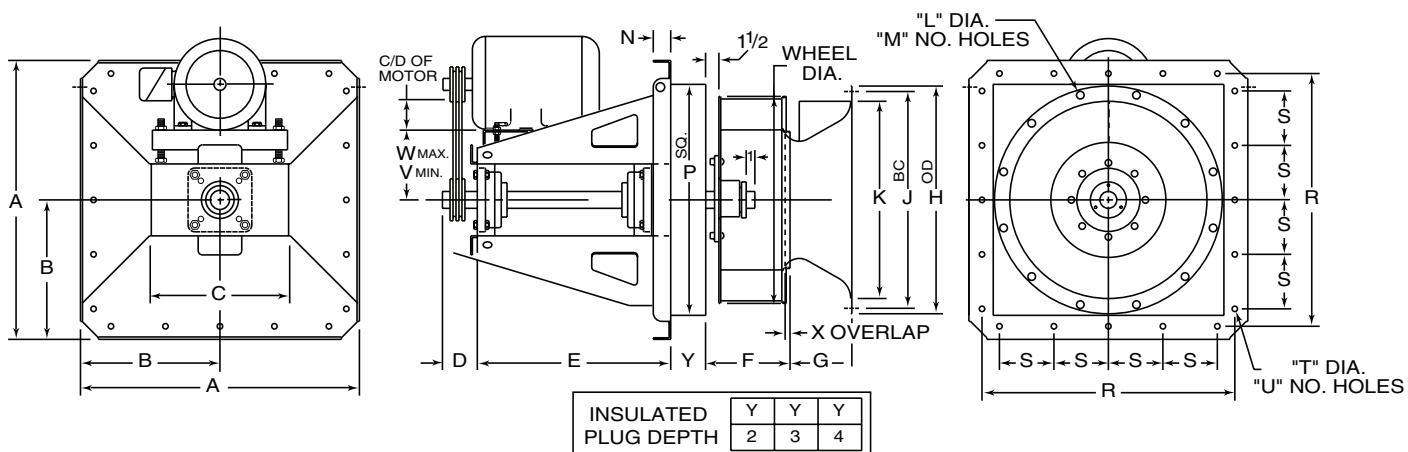
CFM	OV	1.00" SP		2.00" SP		3.00" SP		4.00" SP		5.00" SP		6.00" SP		8.00" SP		10.00" SP		12.00" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20466	1000	353	4.21																
24559	1200	383	5.22	473	9.94														
28652	1400	417	6.34	498	11.79														
32745	1600	453	7.70	526	13.68	595	20.07												
36838	1800	492	9.39	558	15.87	621	22.78	681	30.00										
40932	2000	534	11.35	593	18.17	650	25.78	706	33.69	760	41.63	810	49.61						
45025	2200	576	13.64	629	20.84	683	29.08	734	37.37	785	46.31	834	54.98						
49118	2400	620	16.28	668	24.00	717	32.49	765	41.73	812	50.76	859	60.62	946	79.54				
53211	2600	663	19.31	707	27.56	752	36.25	799	46.08	842	55.97	885	65.92	970	86.90	1047	107.52		
57304	2800	708	22.60	749	31.51	790	40.70	833	50.70	875	61.50	915	72.00	995	94.31	1071	116.44		
61398	3000	753	26.30	791	35.92	830	45.64	868	55.76	909	67.02	947	78.74	1022	101.41	1096	125.95	1166	149.39
65491	3200	798	30.44	834	40.81	869	51.07	906	61.63	943	72.99	981	85.17	1051	109.42	1122	134.82	1190	160.54
69584	3400	844	35.06	878	46.23	911	56.98	945	68.08	979	79.52	1015	92.09	1083	118.29	1149	143.84	1215	171.76
73677	3600	889	40.18	921	52.19	953	63.44	985	75.09	1018	87.00	1050	99.53	1116	126.97	1179	154.12	1242	182.25
77771	3800	935	45.83	965	58.53	996	70.49	1026	82.66	1057	95.09	1087	107.83	1151	135.88	1211	165.24	1269	193.51
81864	4000	981	52.05	1010	65.33	1039	78.15	1068	90.82	1096	103.81	1126	117.02	1185	145.37	1244	176.10	1301	206.27
85957	4200	1027	58.85	1055	72.73	1083	86.46	1110	99.63	1137	113.16	1165	126.89	1220	155.47	1278	187.12	1332	219.79
90050	4400			1100	80.74	1126	95.45	1153	109.12	1179	123.15	1204	137.45	1257	166.73	1312	198.79	1366	232.66

PBICA/PBCS-122-542 Plug Fans Arr't 2T (No Insulated Plug)



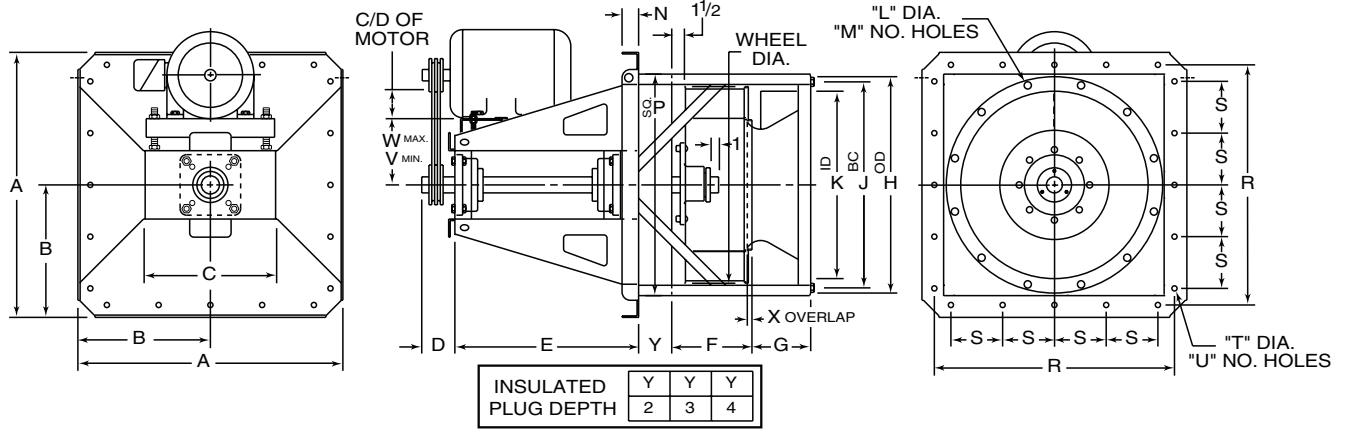
FAN SIZE	WHEEL DIA.	CLASS 1 & 2		CLASS 3		A	B	C	D	E	F	G	H	J	K	L	M	N	R	S	T	U	V	W	X	MAX. FRAME SIZE	APPROX. FAN WT. LESS MTR.	
		SHAFT DIA.	KEYWAY	SHAFT DIA.	KEYWAY																							
122	12 5/8					23	11 1/2	14	4	16 1/2	6 1/8	3 3/8	16 5/8	15	12 1/2	3/4	8	1 1/2	20 1/2	8 3/4	5/8	12			5/8	213T	150 lbs.	
135	13 1/2	1 1/8	3/8 x 3/8	1 1/8	3/8 x 3/8						6 1/8	4 3/8	17 1/2	16	13 3/4	3/4	8	1 1/2	20 1/2	8 3/4	5/8	12	5 1/2	8	1 1/2		157 lbs.	
150	15 3/8					24 1/2	12 1/4	14	4	16 1/2	7 1/8	4 3/8	19 1/2	18	15 1/4	3/4	8	1 1/2	22	9 1/2	5/8	12			3/8		165 lbs.	
165	17					26	13	15	4	18 1/2	7 7/8	5 1/2	21 1/2	19	16 5/8	3/4	8	1 1/2	23 1/2	10 1/4	5/8	12			3/8	215T	290 lbs.	
182	18 3/4	1 1/8	3/8 x 3/8	1 1/8	1/2 x 1/4						8 1/8	5 1/8	23 1/2	20 3/4	18 3/8	7/8	12	1 1/2	26 1/2	11	5/8	12	5 1/2	9	7/8		310 lbs.	
200	20 1/2					29	14 1/2	16	4	20	8 3/8	6 1/2	24 1/2	22 3/4	20 1/4	7/8	12	1 3/4	26 1/2	11	5/8	12			1/2	254T	322 lbs.	
222	22 3/4					32	16	16	4	22 3/8	9 1/8	7 1/2	26 1/2	24 3/8	22 3/4	7/8	12	1 3/4	29	6 3/4	5/8	20			3/8	256T	415 lbs.	
245	25	1 1/8	1/2 x 1/4	2 3/8	1/2 x 1/4						10 1/2	7 7/8	30 1/2	28 3/8	24 5/8	1	16	2	35	7 7/8	5/8	20	6	10	3/8		435 lbs.	
270	27 1/2					38	19	18 1/2	5	24 3/8	11 1/8	8 3/8	32 1/2	30 3/8	27 1/2	1	16	2	35	7 7/8	5/8	20			1/2	284T	480 lbs.	
300	30 1/2					45	22 1/4	23	5 1/2	27 3/8	12 1/2	9 1/2	35 1/2	33 3/8	30 1/2	1	16	2 1/2	41 1/2	9	3/4	20			3/4	324T	530 lbs.	
330	33 1/2	2 3/8	1/2 x 1/4	2 7/8	5/8 x 5/16						13 3/8	10 3/2	38 3/8	36 3/8	33 3/8	1	16	2 1/2	41 1/2	9	3/4	20	7	10 1/2	7/8		570 lbs.	
365	37					48	24	23	5 1/2	29 3/8	14 1/4	11 3/2	41 1/2	39 3/8	37 3/8	1	16	2 1/2	44 1/2	10	3/4	20			7/8		615 lbs.	
402	40 3/4	2 1/8	5/8 x 5/8	2 1/2	5/8 x 5/8						16 1/4	12 1/8	45 1/2	43 3/8	41	1	24	3	52 1/2	12	3/4	20	8	11 1/2	1		326T	890 lbs.
445	45					56	28	23	5 1/2	29 1/4	17 3/4	14 3/2	49 1/2	47 3/8	45 3/8	1	24	3	52 1/2	12	3/4	20			1 1/2		970 lbs.	
490	49 3/4	2 1/8	3/4 x 3/8	3 3/8	3/4 x 3/8	62	31	28	6	30	19 1/8	15 3/2	57	54 1/2	49 1/2	1 1/2	24	3	59	13	7/8	20	9 3/4	13 3/4	1 3/8		326T	1315 lbs.

PBICA/PBCS-122-542 Plug Fans Arr't 2T with Insulated Plug



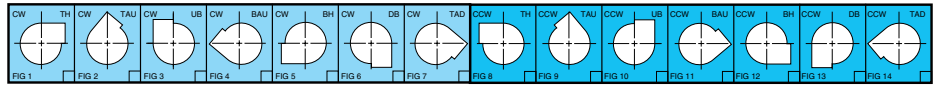
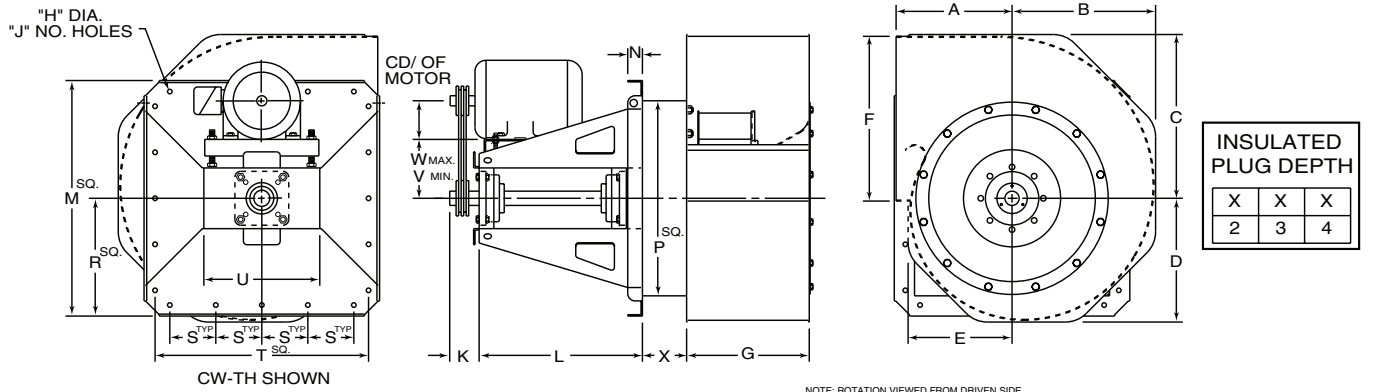
FAN SIZE	WHEEL DIA.	CLASS 1 & 2		CLASS 3		A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X	MAX. FRAME SIZE	APPROX. FAN WT. LESS MTR.	
		SHAFT DIA.	KEYWAY	SHAFT DIA.	KEYWAY																								
122	12 5/8					23	11 1/2	14	4	16 1/2	6 1/8	3 3/8	16 5/8	15	12 1/2	3/4	8	1 1/2	18 1/2	20 1/2	8 3/4	5/8	12			5/8	213T	163 lbs.	
135	13 1/2	1 1/8	3/8 x 3/8	1 1/8	3/8 x 3/8						6 1/8	4 3/8	17 1/2	16	13 3/4	3/4	8	1 1/2	18 1/2	20 1/2	8 3/4	5/8	12	5 1/2	8	1 1/2		170 lbs.	
150	15 3/8					24 1/2	12 1/4	14	4	16 1/2	7 1/8	4 3/8	19 1/2	18	15 1/4	3/4	8	1 1/2	20	22	9 1/2	5/8	12			3/8		179 lbs.	
165	17					26	13	15	4	18 1/2	7 7/8	5 1/2	21 1/2	19	16 5/8	3/4	8	1 1/2	21 1/2	23 1/2	10 1/4	5/8	12			3/8	215T	314 lbs.	
182	18 3/4	1 1/8	3/8 x 3/8	1 1/8	1/2 x 1/4						8 1/8	5 1/8	23 1/2	20 3/4	18 3/8	7/8	12	1 1/2	24 1/2	26 1/2	11	5/8	12	5 1/2	9	7/8		338 lbs.	
200	20 1/2					29	14 1/2	16	4	20	8 3/8	6 1/2	24 1/2	22 3/4	20 1/4	7/8	12	1 3/4	24 1/2	26 1/2	11	5/8	12			1/2	254T	350 lbs.	
222	22 3/4					32	16	16	4	22 3/8	9 1/8	7 1/2	26 1/2	24 3/8	22 3/4	7/8	12	1 3/4	26 1/2	29	6 3/4	5/8	20			3/8	256T	454 lbs.	
245	25	1 1/8	1/2 x 1/4	2 3/8	1/2 x 1/4						10 1/2	7 7/8	30 1/2	28 3/8	24 5/8	1	16	2	32 1/2	35	7 7/8	5/8	20	6	10	3/8		491 lbs.	
270	27 1/2					38	19	18 1/2	5	24 3/8	11 1/8	8 3/8	32 1/2	30 3/8	27 1/2	1	16	2	32 1/2	35	7 7/8	5/8	20			1/2	284T	536 lbs.	
300	30 1/2					45	22 1/4	23	5 1/2	27 3/8	12 1/2	9 1/2	35 1/2	33 3/8	30 1/2	1	16	2 1/2	38 1/2	41 1/2	9	3/4	20			3/4	324T	615 lbs.	
330	33 1/2	2 3/8	1/2 x 1/4	2 7/8	5/8 x 5/16						13 3/8	10 3/2	38 3/8	36 3/8	33 3/8	1	16	2 1/2	38 1/2	41 1/2	9	3/4	20	7	10 1/2	7/8		655 lbs.	
365	37					48	24	23	5 1/2	29 3/8	14 1/4	11 3/2	41 1/2	39 3/8	37 3/8	1	16	2 1/2	41 1/2	44 1/2	10	3/4	20			7/8		711 lbs.	
402	40 3/4	2 1/8	5/8 x 5/8	2 1/2	5/8 x 5/8						16 1/4	12 1/8	45 1/2	43 3/8	41	1	24	3	49 1/2	52 1/2	12	3/4	20	8	11 1/2	1		326T	1153 lbs.
445	45					56	28	23	5 1/2	29 1/4	17 3/4	14 3/2	49 1/2	47 3/8	45 3/8	1	24	3	49 1/2	52 1/2	12	3/4	20			1 1/2		1208 lbs.	
490	49 3/4	2 1/8	3/4 x 3/8	3 3/8	3/4 x 3/8	62	31	28	6	30	19 1/8	15 3/2	57	54 1/2	49 1/2	1 1/2	24	3	56	59	13	7/8	20	9 3/4	13 3/4	1 3/8		326T	1684 lbs.

PBCA/PBCS-122-542 Plug Fans Arr't 2T with Insulated Plug & Venturi Frame



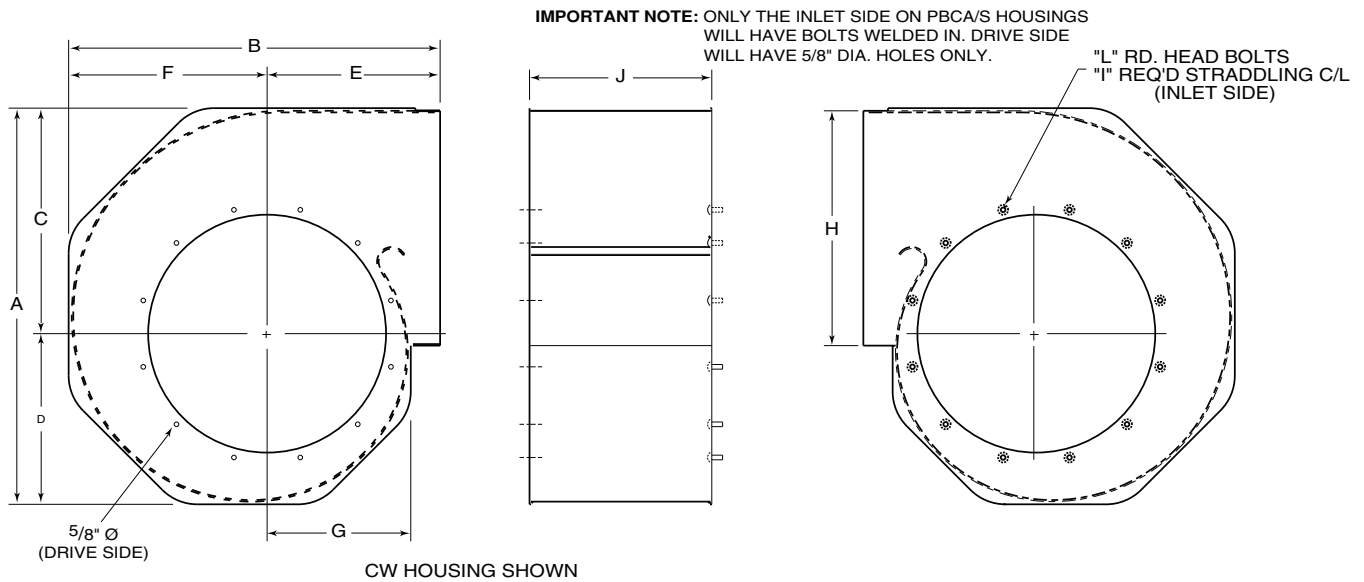
FAN SIZE	WHEEL DIA.	CLASS 1 & 2		CLASS 3		A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X	MAX. FRAME SIZE	APPROX. FAN WGT. LESS MTR.
		SHAFT DIA.	KEYWAY	SHAFT DIA.	KEYWAY																							
122	12 ³ / ₈	1 ¹ / ₈	3/8 x 3/8	1 ¹ / ₈	3/8 x 3/8	23	11 ¹ / ₂	14	4	16 ¹ / ₂	6 ¹ / ₈	3 ³ / ₈	16 ³ / ₈	15	12 ¹ / ₂	3 ³ / ₈	8	1 ¹ / ₂	18 ³ / ₈	20 ¹ / ₂	8 ³ / ₈	5 ¹ / ₂	12	5 ¹ / ₂	8	5 ¹ / ₈	213T	179 lbs.
135	13 ³ / ₈					6 ¹ / ₈	4 ³ / ₈	17 ³ / ₈	16	13 ³ / ₈	3 ³ / ₈	8	1 ¹ / ₂	18 ³ / ₈	20 ¹ / ₂	8 ³ / ₈	5 ¹ / ₂	12	186 lbs.									
150	15 ³ / ₈					11 ¹ / ₈	13 ³ / ₈	15 ¹ / ₈	11 ¹ / ₈	9 ¹ / ₂	15	12	20 ¹ / ₂	22	9 ¹ / ₂	5 ¹ / ₂	12	196 lbs.										
165	17	1 ¹ / ₈	3/8 x 3/8	1 ¹ / ₈	1/2 x 1/4	26	13	15	4	18 ¹ / ₂	7 ³ / ₈	5 ³ / ₈	21 ¹ / ₂	19	16 ³ / ₈	3 ³ / ₈	8	1 ¹ / ₂	21 ¹ / ₂	23 ¹ / ₂	10 ¹ / ₂	5 ¹ / ₂	12	5 ¹ / ₂	9	7 ¹ / ₈	254T	329 lbs.
182	18 ³ / ₈					8 ³ / ₈	5 ³ / ₈	23 ¹ / ₂	20 ³ / ₈	18 ³ / ₈	7 ³ / ₈	12	1 ¹ / ₂	24 ¹ / ₂	26 ¹ / ₂	11	5 ¹ / ₂	12	372 lbs.									
200	20 ¹ / ₂					8 ³ / ₈	6 ³ / ₈	24 ¹ / ₂	22 ¹ / ₂	20 ¹ / ₂	7 ³ / ₈	12	1 ¹ / ₂	24 ¹ / ₂	26 ¹ / ₂	11	5 ¹ / ₂	12	384 lbs.									
222	22 ³ / ₈	1 ¹ / ₈	1/2 x 1/4	2 ³ / ₈	1/2 x 1/4	32	16	16	4	22 ³ / ₈	9 ¹ / ₂	7 ³ / ₈	26 ¹ / ₂	24 ¹ / ₂	22 ³ / ₈	7 ³ / ₈	12	1 ¹ / ₂	26 ¹ / ₂	29	6 ³ / ₈	5 ¹ / ₂	20	6	10	5 ¹ / ₈	284T	491 lbs.
245	25					10 ¹ / ₂	7 ³ / ₈	30 ³ / ₈	28 ³ / ₈	24 ³ / ₈	1	16	2	32 ³ / ₈	35	7 ¹ / ₈	5 ¹ / ₂	20	538 lbs.									
270	27 ¹ / ₂					11 ¹ / ₈	8 ³ / ₈	32 ³ / ₈	30 ³ / ₈	27 ¹ / ₂	1	16	2	32 ³ / ₈	35	7 ¹ / ₈	5 ¹ / ₂	20	679 lbs.									
300	30 ¹ / ₂	2 ³ / ₈	1/2 x 1/4	2 ³ / ₈	5/8 x 5/8	45	22 ¹ / ₂	23	5 ¹ / ₂	27 ³ / ₈	12 ¹ / ₂	9 ¹ / ₂	35 ³ / ₈	33 ³ / ₈	30 ¹ / ₂	1	16	2 ³ / ₈	38 ³ / ₈	41 ¹ / ₂	9	3 ³ / ₈	20	7	10 ¹ / ₂	3 ¹ / ₈	324T	679 lbs.
330	33 ¹ / ₂					13 ³ / ₈	10 ³ / ₈	38 ³ / ₈	36 ³ / ₈	33 ³ / ₈	1	16	2 ³ / ₈	38 ³ / ₈	41 ¹ / ₂	9	3 ³ / ₈	20	716 lbs.									
365	37					14 ³ / ₈	11 ³ / ₈	41 ³ / ₈	39 ³ / ₈	37 ³ / ₈	1	16	2 ³ / ₈	42	44 ¹ / ₂	10	3 ³ / ₈	20	807 lbs.									
402	40 ³ / ₈	2 ³ / ₈	5/8 x 5/8	2 ³ / ₈	5/8 x 5/8	56	28	23	5 ¹ / ₂	29 ¹ / ₂	16 ¹ / ₂	12 ¹ / ₂	45 ¹ / ₂	43 ¹ / ₂	41	1	24	3	50	52 ¹ / ₂	12	3 ³ / ₈	20	8	11 ¹ / ₂	1	326T	1272 lbs.
445	45					17 ¹ / ₂	14 ³ / ₈	49 ¹ / ₂	47 ¹ / ₂	45 ¹ / ₂	1	24	3	50	52 ¹ / ₂	12	3 ³ / ₈	20	1325 lbs.									
490	49 ³ / ₈					19 ¹ / ₂	15 ³ / ₈	57	54 ¹ / ₂	49 ¹ / ₂	1 ¹ / ₂	24	3	56 ¹ / ₂	59	13	7 ¹ / ₈	20	1821 lbs.									

PBCA/PBCS-122-542 Plug Fans Arr't 2T with Insulated Plug & Housing



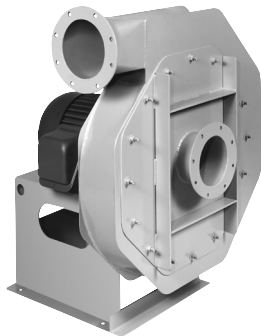
FAN SIZE	WHEEL DIA.	CLASS 1 & 2		CLASS 3		A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	MAX. FRAME SIZE	APPROX. FAN WGT. LESS MTR.
		SHAFT DIA.	KEYWAY	SHAFT DIA.	KEYWAY																						
122	12 ³ / ₈	1 ¹ / ₈	3/8 x 3/8	1 ¹ / ₈	3/8 x 3/8	9 ³ / ₈	10 ¹ / ₂	12 ³ / ₈	9 ³ / ₈	7 ¹ / ₂	12 ³ / ₈	10	%	12	4	16 ¹ / ₂	23	1 ¹ / ₂	18 ¹ / ₂	11 ¹ / ₂	8 ³ / ₈	20 ¹ / ₂	14	5 ¹ / ₂	8	213T	188 lbs.
135	13 ³ / ₈					10 ³ / ₈	11 ³ / ₈	13 ³ / ₈	10 ³ / ₈	8 ¹ / ₂	13 ³ / ₈	10 ³ / ₈															203 lbs.
150	15 ³ / ₈					11 ¹ / ₈	13 ³ / ₈	15 ¹ / ₈	11 ¹ / ₈	9 ¹ / ₂	15 ¹ / ₈	12															220 lbs.
165	17	1 ¹ / ₈	3/8 x 3/8	1 ¹ / ₈	1/2 x 1/4	12 ³ / ₈	14 ³ / ₈	16 ³ / ₈	12 ³ / ₈	10 ³ / ₈	16 ³ / ₈	13	%	12	4	18 ¹ / ₂	26	1 ¹ / ₂	21 ¹ / ₂	13	10 ¹ / ₂	23 ¹ / ₂	15	5 ¹ / ₂	9	254T	366 lbs.
182	18 ³ / ₈					13 ³ / ₈	16 ³ / ₈	18 ³ / ₈	13 ³ / ₈	11 ¹ / ₂	18 ³ / ₈	14 ¹ / ₂															429 lbs.
200	20 ¹ / ₂					14 ³ / ₈	17 ³ / ₈	20	15 ¹ / ₂	12 ¹ / ₂	20 ¹ / ₂	15 ³ / ₈															429 lbs.
222	22 ³ / ₈	1 ¹ / ₈	1/2 x 1/4	2 ³ / ₈	1/2 x 1/4	15 ¹ / ₂	19 ¹ / ₂	22 ¹ / ₂	16 ¹ / ₂	14 ¹ / ₂	22 ¹ / ₂	16 ¹ / ₂	%	20	4	22 ¹ / ₂	32	1 ¹ / ₂	26 ¹ / ₂	16	6 ³ / ₈	29	16	6	10	284T	545 lbs.
245	25					17 ¹ / ₂	21 ¹ / ₂	24 ¹ / ₂	18 ¹ / ₂	15 ¹ / ₂	24 ¹ / ₂	18 ¹ / ₂															593 lbs.
270	27 ¹ / ₂					19 ¹ / ₂	23 ¹ / ₂	26 ¹ / ₂	20 ¹ / ₂	17 ¹ / ₂	27 ¹ / ₂	20 ¹ / ₂															671 lbs.
300	30 ¹ / ₂	2 ³ / ₈	1/2 x 1/4	2 ³ / ₈	5/8 x 5/8	21 ¹ / ₂	26 ¹ / ₂	29 ¹ / ₂	22 ¹ / ₂	18 ¹ / ₂	30 ¹ / ₂	22 ¹ / ₂	%	20	5 ¹ / ₂	27 ¹ / ₂	45	2 ³ / ₈	38 ¹ / ₂	22 ¹ / ₂	9	41 ¹ / ₂	23	7	10 ¹ / ₂	324T	768 lbs.
330	33 ¹ / ₂					23 ¹ / ₂	28 ¹ / ₂	32 ¹ / ₂	24 ¹ / ₂	20 ¹ / ₂	33 ¹ / ₂	24 ¹ / ₂															903 lbs.
365	37					26 ¹ / ₂	31 ¹ / ₂	36 ¹ / ₂	27 ¹ / ₂	23	36 ¹ / ₂	26 ¹ / ₂															1077 lbs.
402	40 ³ / ₈	2 ³ / ₈	5/8 x 5/8	2 ³ / ₈	5/8 x 5/8	29 ¹ / ₂	35 ¹ / ₂	40	30 ¹ / ₂	25 ¹ / ₂	40 ¹ / ₂	29 ¹ / ₂	%	20	5 ¹ / ₂	29 ¹ / ₂	56	3	49 ¹ / ₂	28	12	52 ¹ / ₂	23	8	11 ¹ / ₂	326T	1586 lbs.
445	45					32 ¹ / ₂	38 ¹ / ₂	44 ¹ / ₂	33 ¹ / ₂	28	44 ¹ / ₂	32 ¹ / ₂															1764 lbs.
490	49 ³ / ₈					35 ¹ / ₂	42 ¹ / ₂	48 ¹ / ₂	36 ¹ / ₂	30 ¹ / ₂	49 ¹ / ₂	35															2326 lbs.

PBCA/PBCS-122-542 Plug Fan Housings



SIZE	A	B	C	D	E	F	G	H	I	CLASS 1, 2 & 3			
										NET WT. (lbs.)	J	K	L
122	21 $\frac{1}{4}$	20 $\frac{3}{16}$	12 $\frac{3}{16}$	9 $\frac{3}{16}$	9 $\frac{9}{16}$	10 $\frac{7}{16}$	7 $\frac{7}{16}$	12 $\frac{3}{16}$	8	38	10	1/4	5/16 x 1
135	23 $\frac{3}{8}$	22 $\frac{3}{4}$	13 $\frac{3}{8}$	10 $\frac{3}{8}$	10 $\frac{9}{8}$	11 $\frac{3}{8}$	8 $\frac{1}{8}$	13 $\frac{3}{8}$	8	46	10 $\frac{9}{8}$		
150	26 $\frac{1}{2}$	25 $\frac{1}{8}$	15 $\frac{1}{8}$	11 $\frac{1}{8}$	11 $\frac{9}{8}$	13 $\frac{1}{4}$	9 $\frac{3}{8}$	15 $\frac{1}{8}$	8	55	12		
165	29 $\frac{1}{2}$	27 $\frac{3}{8}$	16 $\frac{3}{8}$	12 $\frac{3}{8}$	12 $\frac{3}{4}$	14 $\frac{3}{8}$	10 $\frac{3}{8}$	16 $\frac{3}{8}$	8	76	13	1/4	5/16 x 1 1/4
182	32 $\frac{1}{8}$	29 $\frac{3}{8}$	18 $\frac{1}{4}$	13 $\frac{1}{4}$	13 $\frac{3}{4}$	16 $\frac{1}{8}$	11 $\frac{3}{8}$	18 $\frac{3}{8}$	12	91	14 $\frac{1}{2}$		
200	35 $\frac{1}{4}$	32 $\frac{3}{8}$	20	15 $\frac{3}{8}$	14 $\frac{3}{4}$	17 $\frac{3}{8}$	12 $\frac{1}{2}$	20 $\frac{1}{4}$	12	107	15 $\frac{3}{8}$		
222	39 $\frac{1}{8}$	35 $\frac{1}{4}$	22 $\frac{1}{4}$	16 $\frac{3}{8}$	15 $\frac{3}{4}$	19 $\frac{1}{2}$	14 $\frac{1}{2}$	22 $\frac{3}{8}$	12	130	16 $\frac{3}{8}$	1/4	3/8 x 1 1/4
245	42 $\frac{5}{8}$	38 $\frac{3}{4}$	24 $\frac{1}{8}$	18 $\frac{1}{2}$	17 $\frac{3}{4}$	21 $\frac{1}{2}$	15 $\frac{1}{2}$	24 $\frac{1}{8}$	16	158	18 $\frac{1}{8}$		
270	47 $\frac{5}{8}$	42 $\frac{1}{2}$	26 $\frac{5}{8}$	20 $\frac{3}{8}$	19 $\frac{1}{4}$	23 $\frac{3}{8}$	17 $\frac{1}{8}$	27 $\frac{3}{8}$	16	191	20 $\frac{3}{8}$		
300	52 $\frac{1}{2}$	48	29 $\frac{1}{8}$	22 $\frac{3}{8}$	21 $\frac{3}{4}$	26 $\frac{1}{4}$	18 $\frac{3}{8}$	30 $\frac{3}{8}$	16	238	22 $\frac{1}{8}$	1/4	3/8 x 1 1/4
330	57 $\frac{1}{8}$	52 $\frac{3}{8}$	32 $\frac{3}{8}$	24 $\frac{3}{8}$	23 $\frac{3}{4}$	28 $\frac{3}{8}$	20 $\frac{3}{8}$	33 $\frac{1}{4}$	16	334	24 $\frac{1}{2}$		
365	63 $\frac{3}{4}$	58 $\frac{3}{8}$	36 $\frac{3}{8}$	27 $\frac{1}{8}$	26 $\frac{3}{4}$	31 $\frac{1}{8}$	23	36 $\frac{3}{4}$	16	462	26 $\frac{1}{8}$		
402	70 $\frac{1}{4}$	64 $\frac{3}{8}$	40	30 $\frac{1}{4}$	29 $\frac{3}{4}$	35 $\frac{1}{8}$	25 $\frac{1}{2}$	40 $\frac{3}{8}$	24	561	29 $\frac{3}{8}$	3/8	3/8 x 1 1/4
445	77 $\frac{1}{8}$	71 $\frac{1}{2}$	44 $\frac{1}{2}$	33 $\frac{3}{8}$	32 $\frac{3}{4}$	38 $\frac{3}{8}$	28	44 $\frac{3}{8}$	24	684	32 $\frac{3}{8}$		

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