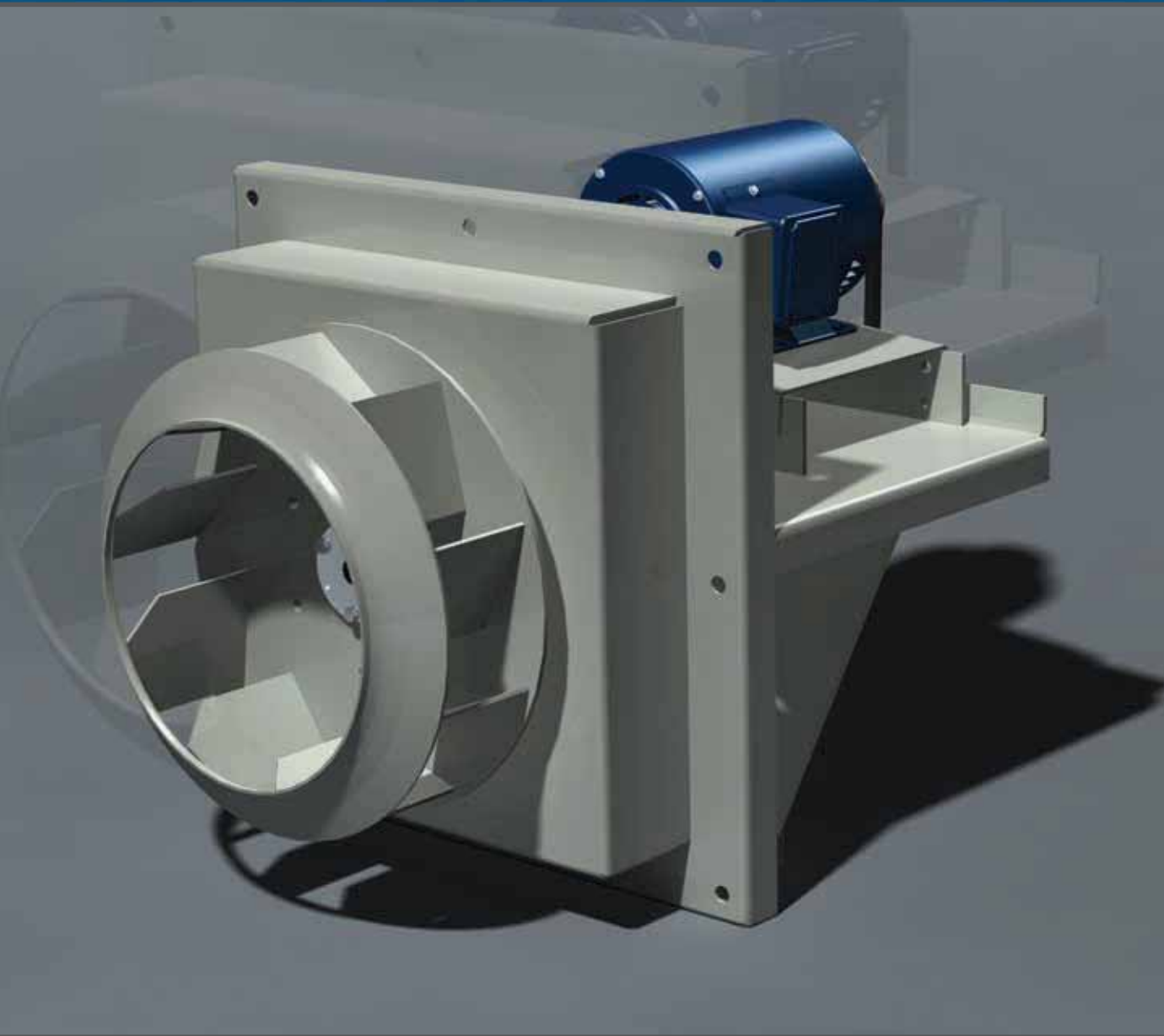


Plug Fans Model PLG

- Commercial and Industrial Applications



BUILDING VALUE IN AIR.

 **GREENHECK**
Building Value in Air.

March
2013

Model PLG Plug Fan

Greenheck's plug fans, with backward-inclined centrifugal wheels, are designed to provide efficient and reliable operation for commercial and industrial applications. They are suitable for supply, exhaust, or recirculation systems.

In most instances, plug fans are unshoused and rely on the plenum space around the wheel to direct airflow as required in the system. This style of fan is designed with the motor, bearings, and drives out of the airstream, which allows for use in clean, contaminated, or high temperature systems.



Model PLG *(shown with insulated plug option)*

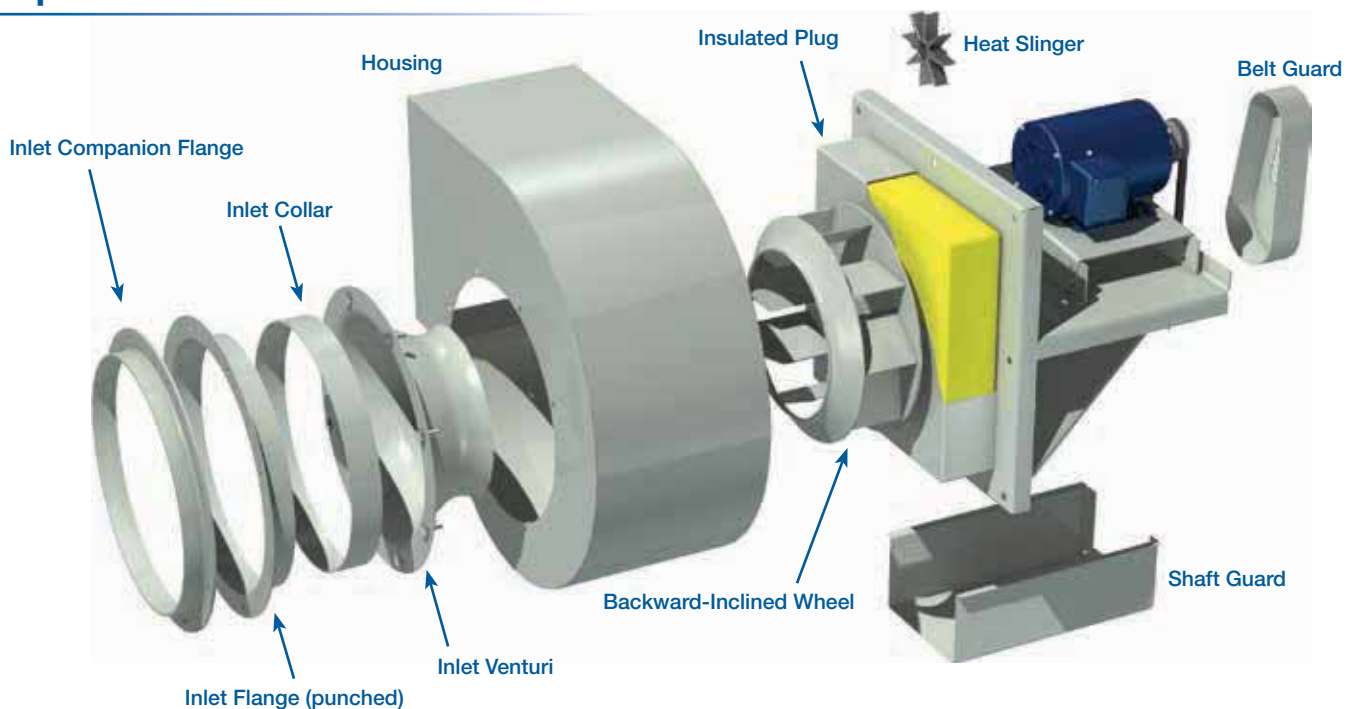
- Volumetric flow capacity up to 70,000 cfm (118,931 m³/hr)
- Maximum pressures of 8 in. wg (1,984 Pa)
- Maximum operating temperature of 800°F (426°C)
- Belt or direct drive
- Horizontal or vertical mounting

Typical Applications

- Heating and air conditioning systems
- High temperature processes such as ovens, dryers and kilns
- Spray booth evaporators and textile dust collectors
- Air curtains
- Custom air handlers
- Wash systems

PLG	
Wheel Type	
Application	General purpose, clean air or severe environments
Temperature	Up to 800°F (426°C)
Construction	Steel Aluminum 316 Stainless Steel

Exploded View



Wheels – Backward-inclined single-width with non-overloading performance. Standard construction includes heavy-gauge steel wheel cone and backplate with welded steel blades. Wheels are statically and dynamically balanced to grade G6.3 per ANSI S2.19. Available in aluminum or stainless steel.

Mounting Frames – Heavy-gauge steel with die-formed flanges and welded corners. Rigid steel gussets are welded to the frame and motor supports to ensure precise drive alignment. Panel is prepunched for ease of installation. Motor mounting plates on belt drive models are adjustable to maintain proper belt tension. Available in stainless steel construction.

Premium Bearings –

Model PLG plug fans are manufactured with “Air Handling Quality” self-aligning ball or roller pillow block bearings. Our standard bearings use concentric lock collars (no set screws) which ensure smooth operation and provide superior grip-force between the bearing collar and fan shaft. These bearings are selected for a basic rating fatigue life of L₁₀ in excess of 80,000 hours. For more critical applications, Greenheck offers bearings with a minimum L₁₀ life in excess of 200,000 hours. Our bearings include zerk fittings for relubrication.



	L ₁₀ Life	Equal to L ₅₀ or Average life
Industry Standard	40,000 hrs.	200,000 hrs.
Greenheck Standard	80,000 hrs.	400,000 hrs.
Greenheck Upgrade	200,000 hrs.	1,000,000 hrs.

L₁₀ life implies 90% reliability or 10% failure rate after the stated hours.

L₅₀ life implies 50% reliability or 50% failure rate after the stated hours.

Inlet Cones – Inlet cones are heavy-gauge spun steel. They include prepunched mounting holes for field installation. Available in aluminum or stainless steel.

Fan Shafts – Turned and polished steel that is sized so the first critical speed is at least 25% over the maximum operating speed for each pressure class. Available in stainless steel.

Coatings – All steel components are coated with Permator™. Fans used for high temperature applications above 250°F (121°C) use High Temperature Silver. Both coatings are 2-3 mils of electrostatically-applied, baked powders that offer a durable, long lasting finish.

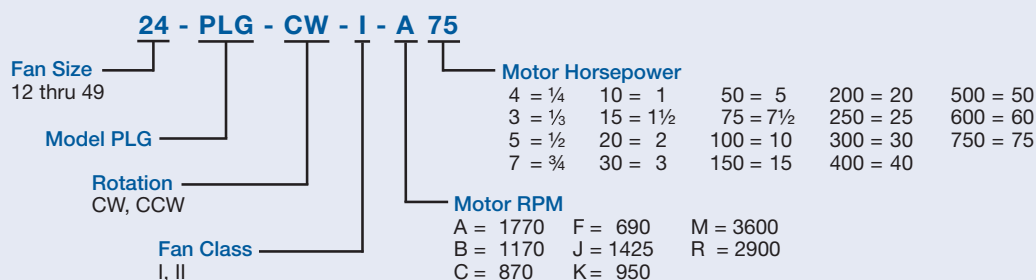
Vibration Analysis – All Greenheck centrifugal products endure a complete mechanical vibration test after assembly. Our custom data acquisition system uses tri-axial accelerometers to measure the vibration in three planes at the design operating speed. A permanent record for each fan’s performance is kept on file and is available upon request.

Drive Type	Filter-In Vibration Limit (Rigidly Mounted)
Belt	0.15 in/sec-pk
Direct	0.08 in/sec-pk

The standard “filter-in” vibration levels attained meet the requirements of Fan Application BV-3 as defined in ANSI/AMCA Standard 204-05 “Balance Quality and Vibration Levels for Fans”. Consult the factory if more stringent vibration levels are necessary.



Model Number Code



Shaft and Belt Guards – Shaft and belt guards are built to OSHA guidelines to provide personnel protection from the rotation of the shaft, belts, and pulleys.

Inlet Vane Dampers – Inlet vane dampers are available to provide airflow control. Nested inlet vanes are integral with the inlet cone. External inlet vanes bolt to the flange of the inlet cone. The maximum temperature capacity for inlet vanes is 200°F (93°C).



Heat Slinger – A shaft mounted cooling device which is placed between the inboard bearing and the drive panel to dissipate heat conducted along the fan shaft. Heat slingers are included with any heat fan package.



Insulated Plugs – Insulated plugs provide a thermal barrier between the airstream and the motor compartment. This insulated section is available in 4 inch (101 mm), 5 inch (127 mm), and 6 inch (152 mm) thicknesses. Insulated plugs are included with any heat fan package (not available on direct drive).

Centrifugal Fan Housings – Housings offer a connection to ductwork and can be used to direct the airflow. The housing is designed for mounting to the plenum wall and can be used for any rotation or discharge position (no flanges or support frames are supplied).



Shaft Seals – Shaft seals reduce air leakage caused by the shaft penetration in the fan panel. Shaft seals are available in felt or neoprene.

Extended Shafts – Extended shaft lengths accommodate wall thickness of 5 inches (127 mm) and 6 inches (152 mm).

Specialized Powder Coatings – Specialized powder coatings are available for elevated temperatures and highly corrosive applications. Consult Greenheck's Product Application Guide, *Performance Coatings for Ventilation Products*. For a complete listing of coatings, visit www.greenheck.com.

Inlet Modifications – Inlet collars, inlet flanges, and companion flanges are available for ducted inlet applications.

Disconnect Switches – Disconnect switches are offered in a variety of enclosures. They can be shipped installed on the fan or loose for field installation.

Construction Options

Heat Fan Packages – Heat fan packages include the enhancements required for the fan to endure continuous high temperatures in excess of 250°F (121°C). Greenheck offers 500°F (260°C) and 800°F (426°C) packages for belt drive fans only (not available on direct drive).

Spark-Resistant Construction – Greenheck plug fans are available with spark-resistant designs suitable for applications that involve flammable particles, fumes or vapors. Spark-resistant construction options adhere to guidelines defined within AMCA Standard 99-0401-86.

High Temperature Construction		
Operating Temperature		Construction
°F	°C	
Up to 250°	Up to 121°	Standard
251°-800°	122°-426°	Heat Slinger Shaft Seal High-Temperature Grease Bearings Insulated Plug High-Temperature Aluminum Paint

Note: Aluminum construction is suitable up to 250°F (121°C)

Spark-Resistant Construction	
Spark B	The fan wheel is constructed of a nonferrous material (usually aluminum). A nonferrous (aluminum) rub ring surrounds the fan shaft where it passes through the fan housing.
Spark C	The inlet cone is constructed of nonferrous material (usually aluminum). A nonferrous (aluminum) rub ring surrounds the fan shaft where it passes through the fan housing.

Available Configurations

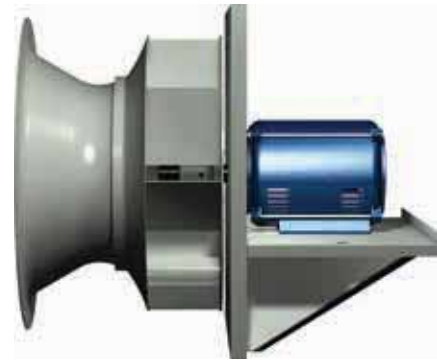


Belt Drive Arrangement 9

Advantages:

- Performance adjustments with variable frequency drives or with pulley adjustments
- Higher temperature capabilities
- Accommodates wall thickness of 4 inches with standard shaft

Available in sizes 12-49.



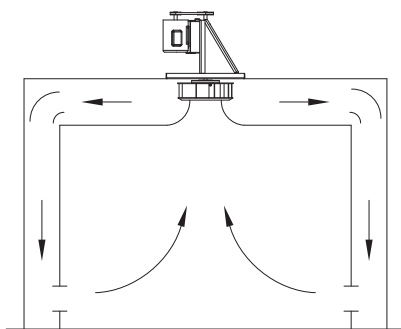
Direct Drive Arrangement 4

Advantages:

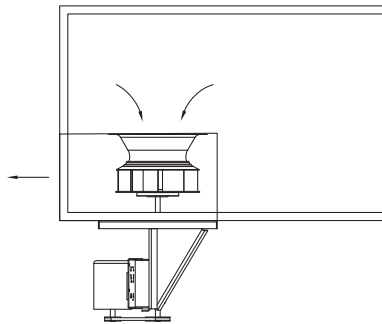
- Eliminates belt and bearing maintenance
- Performance adjustments with variable frequency drives or partial wheel widths

Available in sizes 12-36.

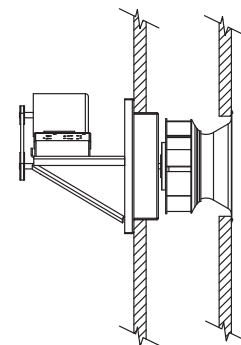
Typical Installation



Plug fans can discharge to multiple ductwork for general exhaust or recirculation.



The optional housing directs the discharged air to a single outlet.



Insulated plug design is shown. Maximum wall thickness for a standard length shaft is 4 in. (101 mm). Optional 5 in. (127mm) or 6 in. (152 mm) shaft lengths are available for a thicker wall.

Fan Selection Example

Effects of Air Density

Ratings in the fan performance tables and curves of this catalog are based on standard air (clean and dry air with a density of 0.075 lbs/ft³ at 70°F and a barometric pressure at sea level of 406.75 inches wg.). A change in elevation, temperature or the type of gas handled will affect density. A fan running at a constant speed and installed in a fixed system will experience changes in pressure output and horsepower consumption if the density of the airstream varies. The air volume delivered by the fan will remain constant regardless of air density.

1. Air volume remains at 10,000 cfm since the volume delivered is not affected by air density.
2. An air density correction factor must be applied to the static pressure. For an elevation of 10,000 ft. and a temperature of 300°F, 0.480 is the required correction factor (Table 1.1). Use the correction factor to adjust the static pressure by dividing the required static pressure by the correction factor.
 $1.44 \text{ in. wg} \div 0.480 = 3.0 \text{ in. wg}$
3. Now select a fan size from the cataloged data based on the corrected performance at standard air (10,000 cfm at 3.0 in. wg). The PLG-27 fan will deliver 10,050 cfm at 3.0 in. wg running at 1276 frpm, consuming 7.98 hp.

Note: Cataloged Bhp does not include drive losses. Consult AMCA Publication 203-90 for help in estimating drive losses.

Example of Performance Correction

Select a fan to meet the following requirements:

Volume:	10,000 cfm
Static Pressure:	1.44 in. wg
Airstream Temperature:	300°F
Installation Elevation:	10,000 ft.
Wall Thickness:	6 in.

The selection is at non-standard atmospheric conditions and must be corrected to standard conditions to use cataloged data.

4. The cataloged data shows a Class I design is required at standard air, however, two maximum frpm derates must be made: temperature and wall thickness.
 - Obtain the maximum allowable speed for 6 inch wall thickness (Table 2).
 - Since a speed of 1276 frpm is required, a Class I design (1193 maximum frpm) will not be acceptable, a Class II design (1557 maximum frpm) must be used.
 - Now adjust the new maximum frpm based on the airstream temperature (Table 3).
 - Multiply the maximum frpm by the derate factor to obtain the new maximum frpm.
 $1557 \times 0.95 = \text{Maximum frpm of } 1480 \text{ at } 300^\circ\text{F}$

Airstream Temperature Variations

When a fan is selected, two temperatures in the airstream should be considered: Start-up and normal operation. While the horsepower required is reduced at higher temperatures, the motor must be sized based on the lowest temperature that could be present in the airstream (when air density is at its maximum value).

1. Calculate hp at the start-up condition. Assume the air entering the fan at start-up is 40°F. For 40°F at 10,000 ft. elevation, the air density correction factor (Table 1.1) is 0.729. Multiply the cataloged Bhp by the correction factor.

$$7.98 \times 0.729 = 5.82 \text{ Bhp at start-up}$$

2. Calculate hp during normal operation using the same procedure, but for 300°F at 10,000 ft. elevation.

$$7.98 \times 0.480 = 3.83 \text{ Bhp during normal operation}$$

3. The motor should be sized based on the larger of the two values from step 1 and 2: 5.82 Bhp.

NOTE: Considering drive losses, a 7.5 hp motor is sufficient.

Fan Selection	
Model	PLG-27
Class	II
RPM	1276
Motor	7.5 hp

Dry Air Density Correction Factor (I-P)													
Multiply Standard Air Density, 0.075 lb _m /ft ³ by the Factor to obtain Density at Condition p _b													
Altitude, (Z)	ft.	-1000	Sea Level	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
Barometric Pressure (p _b)	in. Hg	31.02	29.92	28.85	27.82	26.82	25.84	24.89	23.98	23.09	22.22	21.39	20.58
	in. wg	421.71	406.75	392.21	378.20	364.61	351.29	338.37	326.00	313.90	302.07	290.79	279.78
Temperature °F, (t)	-40	1.309	1.262	1.217	1.174	1.131	1.090	1.050	1.012	0.974	0.937	0.902	0.868
	0	1.195	1.152	1.111	1.071	1.033	0.995	0.959	0.924	0.889	0.856	0.824	0.793
	40	1.099	1.060	1.022	0.986	0.950	0.915	0.882	0.850	0.818	0.787	0.758	0.729
	70	1.037	1.000	0.964	0.930	0.896	0.864	0.832	0.801	0.772	0.743	0.715	0.688
	100	0.981	0.946	0.913	0.880	0.848	0.817	0.787	0.759	0.730	0.703	0.677	0.651
	150	0.901	0.869	0.838	0.808	0.779	0.750	0.723	0.696	0.670	0.645	0.621	0.598
	200	0.832	0.803	0.774	0.747	0.720	0.693	0.668	0.644	0.620	0.596	0.574	0.552
	250	0.774	0.746	0.720	0.694	0.669	0.645	0.621	0.598	0.576	0.554	0.534	0.513
	300	0.723	0.697	0.672	0.648	0.625	0.602	0.580	0.559	0.538	0.518	0.498	0.480
	350	0.678	0.654	0.631	0.608	0.586	0.565	0.544	0.524	0.505	0.486	0.468	0.450
	400	0.639	0.616	0.594	0.573	0.552	0.532	0.513	0.494	0.475	0.458	0.440	0.424
	450	0.604	0.582	0.561	0.541	0.522	0.503	0.484	0.467	0.449	0.432	0.416	0.401
	500	0.572	0.552	0.532	0.513	0.495	0.477	0.459	0.442	0.426	0.410	0.395	0.380
	550	0.544	0.525	0.506	0.488	0.470	0.453	0.436	0.420	0.405	0.390	0.375	0.361
600	0.518	0.500	0.482	0.465	0.448	0.432	0.416	0.401	0.386	0.371	0.357	0.344	
700	0.474	0.457	0.440	0.425	0.409	0.394	0.380	0.366	0.352	0.339	0.327	0.314	
800	0.436	0.420	0.405	0.391	0.377	0.363	0.350	0.337	0.324	0.312	0.301	0.289	
900	0.404	0.390	0.376	0.362	0.349	0.336	0.324	0.312	0.301	0.289	0.278	0.268	
1000	0.376	0.363	0.350	0.337	0.325	0.313	0.302	0.291	0.280	0.269	0.259	0.250	

TABLE 1.1: IMPERIAL UNITS DRY AIR DENSITY CORRECTION FACTOR

Dry Air Density Correction Factor (SI)													
Multiply Standard Air Density, 1.2 kg/m ³ by the Factor to obtain Density at Condition p _b													
Altitude, (Z)	m	-300	Sea Level	300	600	900	1200	1500	1800	2100	2400	2700	3000
Barometric Pressure (p _b)	mm. Hg	787.41	760.00	733.34	707.46	682.33	657.95	634.25	611.23	588.87	567.20	546.19	525.87
	kPa	104.98	101.325	97.77	94.32	90.97	87.72	84.56	81.49	78.51	75.62	72.82	70.11
Temperature °C, (t)	-20	1.200	1.158	1.117	1.078	1.040	1.003	0.966	0.931	0.897	0.864	0.832	0.801
	0	1.112	1.073	1.036	0.999	0.964	0.929	0.896	0.863	0.832	0.801	0.771	0.743
	20	1.036	1.000	0.965	0.931	0.898	0.866	0.835	0.804	0.775	0.746	0.719	0.692
	40	0.970	0.936	0.903	0.871	0.840	0.810	0.781	0.753	0.725	0.699	0.673	0.648
	60	0.912	0.880	0.849	0.819	0.790	0.762	0.734	0.708	0.682	0.657	0.632	0.609
	80	0.860	0.830	0.801	0.773	0.745	0.719	0.693	0.668	0.643	0.620	0.597	0.574
	100	0.814	0.786	0.758	0.731	0.705	0.680	0.656	0.632	0.609	0.586	0.565	0.544
	120	0.773	0.746	0.719	0.694	0.669	0.646	0.622	0.600	0.578	0.556	0.536	0.516
	140	0.735	0.710	0.685	0.660	0.637	0.614	0.592	0.571	0.550	0.530	0.510	0.491
	160	0.701	0.677	0.653	0.630	0.608	0.586	0.565	0.544	0.524	0.505	0.486	0.468
	180	0.670	0.647	0.624	0.602	0.581	0.560	0.540	0.520	0.501	0.483	0.465	0.448
	200	0.642	0.620	0.598	0.577	0.556	0.536	0.517	0.498	0.480	0.462	0.445	0.429
	220	0.616	0.594	0.574	0.553	0.534	0.515	0.496	0.478	0.461	0.444	0.427	0.411
	240	0.592	0.571	0.551	0.532	0.513	0.495	0.477	0.459	0.443	0.426	0.411	0.395
	260	0.570	0.550	0.531	0.512	0.494	0.476	0.459	0.442	0.426	0.410	0.395	0.380
	280	0.549	0.530	0.511	0.493	0.476	0.459	0.442	0.426	0.411	0.396	0.381	0.367
	300	0.530	0.511	0.494	0.476	0.459	0.443	0.427	0.411	0.396	0.382	0.368	0.354
	320	0.512	0.494	0.477	0.460	0.444	0.428	0.412	0.397	0.383	0.369	0.355	0.342
340	0.495	0.478	0.461	0.445	0.429	0.414	0.399	0.385	0.370	0.357	0.344	0.331	

TABLE 1.2: METRIC UNITS DRY AIR DENSITY CORRECTION FACTOR

Adapted from AMCA Standard 99-09, section 0200, Charts and Tables, with written permission from Air Movement and Control Association International, Inc.

Size	Wall Thickness					
	4 in. (101 mm)		5 in. (127 mm)		6 in. (152 mm)	
	Construction Class					
	I	II	I	II	I	II
12	3274	4270	2910	3796	2573	3354
13	2971	3875	2647	3453	2345	3057
15	2674	3488	2388	3116	2120	2764
16	2431	3171	2174	2836	1933	2521
18	2099	2738	1890	2465	1700	2217
20	1915	2498	1728	2254	1556	2029
22	1722	2246	1560	2034	1408	1836
24	1570	2048	1423	1857	1286	1678
27	1425	1859	1305	1702	1193	1557
30	1279	1668	1174	1532	1077	1404
33	1163	1517	1071	1397	984	1284
36	1051	1371	970	1266	893	1165
40	936	1221	871	1136	808	1054
44	847	1105	790	1031	735	959
49	769	1003	720	939	672	876

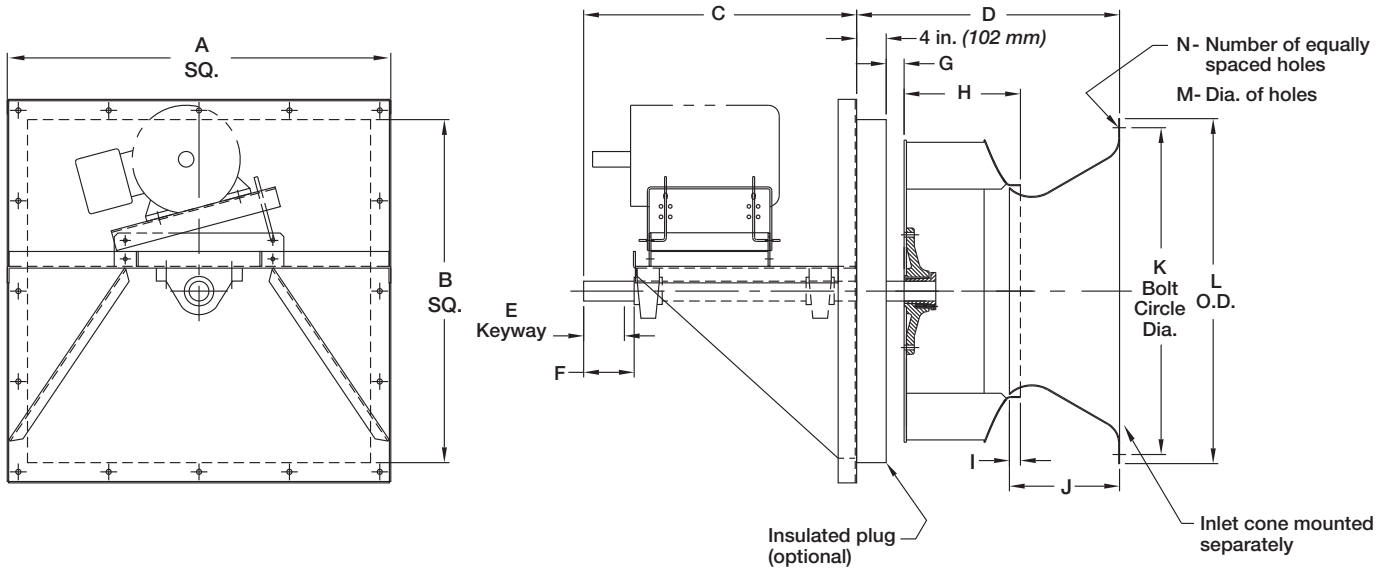
TABLE 2: MAXIMUM FRPM BASED ON WALL THICKNESS

Table 2 shows the maximum allowable fan speeds for plug fans as determined by shaft length. Longer shafts used to accommodate walls or heat plugs beyond 4 in. (101 mm) thick require lower maximum speeds.

Operating Temperature		RPM Correction Factor
°F	°C	
70	21	1.00
200	93	0.97
300	149	0.95
400	204	0.93
500	260	0.90
600	316	0.85
700	371	0.80
800	427	0.72

TABLE 3: HIGH TEMPERATURE LIMITS

Table 3 shows the rpm correction factors by which the maximum allowable speed must be reduced. The maximum allowable wheel rpm shown on the fan performance pages are for fans of standard construction operating at 70°F (21°C). The strength of fan wheels, shafts and bearings decrease with increasing temperature.



Imperial Specifications														
Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N
12	22.00	17.50	20.00	13.81	3.00	3.25	0.94	4.56	0.38	4.69	14.00	15.50	0.53	8
13	22.00	17.50	20.00	14.81	3.00	3.25	1.06	5.06	0.44	5.13	15.00	16.50	0.53	8
15	22.00	17.50	20.00	16.00	3.00	3.25	1.19	5.69	0.50	5.63	16.75	18.25	0.53	8
16	22.00	17.50	20.00	17.19	3.00	3.25	1.31	6.19	0.50	6.19	18.50	20.00	0.53	8
18	31.00	25.50	25.00	18.63	4.50	4.75	1.13	7.13	0.63	6.50	20.50	22.00	0.75	8
20	31.00	25.50	25.00	20.00	4.50	4.75	1.69	7.81	0.63	7.13	22.50	24.00	0.75	8
22	31.00	25.50	25.00	21.75	4.50	4.75	1.94	8.69	0.69	7.88	24.50	26.00	0.75	8
24	31.00	25.50	25.00	23.50	4.50	4.75	1.94	9.56	0.75	8.75	28.00	30.00	0.75	8
27	44.00	37.50	31.00	25.50	5.00	5.25	2.19	10.56	0.88	9.63	30.00	32.00	0.75	8
30	44.00	37.50	31.00	27.81	5.00	5.25	2.31	11.81	0.94	10.75	33.25	35.25	0.75	8
33	44.00	37.50	31.00	30.25	5.00	5.25	2.69	12.81	1.06	11.88	36.25	38.25	0.75	16
36	44.00	37.50	31.00	33.00	5.00	5.25	2.88	14.25	1.19	13.06	40.00	42.00	0.75	16
40	52.00	46.50	36.00	35.94	5.50	5.75	3.06	15.81	1.25	14.44	44.00	46.00	0.75	16
44	52.00	46.50	36.00	39.31	5.50	5.75	3.50	17.31	1.44	15.94	48.50	50.50	0.75	16
49	57.00	50.00	37.00	42.81	5.50	5.75	3.81	19.00	1.56	17.56	53.00	55.00	0.75	16

Dimensions are shown in inches.

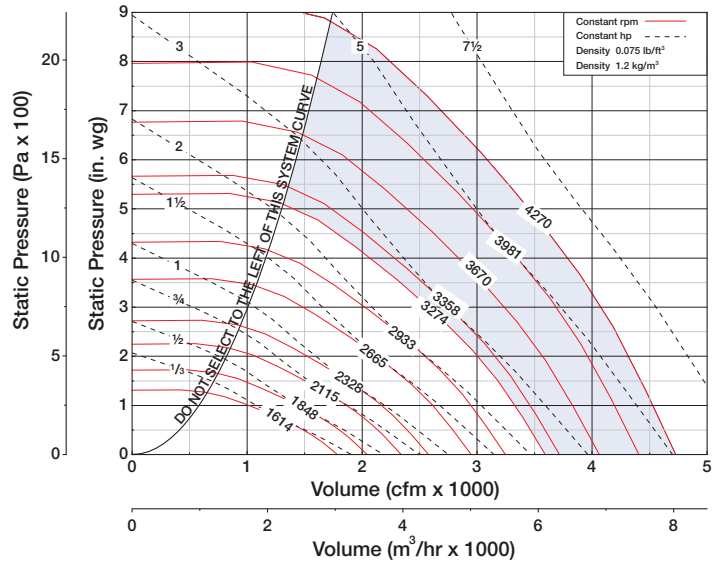
Metric Specifications														
Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N
12	559	445	508	351	76	83	24	116	10	119	356	394	13	8
13	559	445	508	376	76	83	27	129	11	130	381	419	13	8
15	559	445	508	406	76	83	30	145	13	143	425	464	13	8
16	559	445	508	437	76	83	33	157	13	157	470	508	13	8
18	787	648	635	473	114	121	29	181	16	165	521	559	19	8
20	787	648	635	508	114	121	43	198	16	181	572	610	19	8
22	787	648	635	552	114	121	49	221	17	200	622	660	19	8
24	787	648	635	597	114	121	49	243	19	222	711	762	19	8
27	1118	953	787	648	127	133	56	268	22	244	762	813	19	8
30	1118	953	787	706	127	133	59	300	24	273	845	895	19	8
33	1118	953	787	768	127	133	68	325	27	302	921	972	19	16
36	1118	953	787	838	127	133	73	362	30	332	1016	1067	19	16
40	1321	1181	914	913	140	146	78	402	32	367	1118	1168	19	16
44	1321	1181	914	999	140	146	89	440	37	405	1232	1283	19	16
49	1448	1270	940	1087	140	146	97	483	40	446	1346	1397	19	16

Dimensions are shown in millimeters.

PLG Class I	Maximum rpm 3274
PLG Class II	Maximum rpm 4270

Motor on Frame Limit	213T ODP 213T TEFC
Minimum Motor Size	¼ [hp]
Wheel Diameter	12.25 [in.] 311 [mm]
Peak Power	$(\text{rpm} / 2328)^3$ [hp] $(\text{rpm} / 2565)^3$ [kW]
Tip Speed	$\text{rpm} \times 3.21$ [ft/min] $\text{rpm} \times 0.0163$ [m/s]
Wheel Outlet Velocity	$(\text{cfm}) / 0.863$ [ft/min] $(\text{m}^3/\text{s}) / 0.508$ [m/s]
% Wide Open Volume (% WOV)	$(\text{cfm}) / (\text{rpm} \times 0.0111)$ $(\text{m}^3/\text{hr}) / (\text{rpm} \times 0.0188)$

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	855	0.05	1085	0.09	1275	0.14	1444	0.19																
700	912	0.06	1132	0.11	1313	0.16	1474	0.21	1623	0.27														
800	972	0.07	1184	0.13	1359	0.18	1513	0.24	1653	0.30	1788	0.37	1912	0.44										
900	1037	0.09	1238	0.15	1408	0.21	1558	0.27	1694	0.33	1818	0.40	1942	0.48	2057	0.56	2166	0.64						
1000	1104	0.11	1295	0.17	1460	0.24	1606	0.30	1739	0.37	1862	0.45	1975	0.52	2087	0.60	2196	0.69	2298	0.77	2396	0.86		
1100	1176	0.13	1356	0.20	1515	0.27	1658	0.34	1787	0.42	1907	0.49	2020	0.57	2125	0.65	2226	0.74	2328	0.83	2426	0.92	2519	1.02
1200	1251	0.15	1418	0.23	1572	0.31	1710	0.38	1838	0.46	1955	0.55	2065	0.63	2170	0.72	2269	0.80	2363	0.89	2456	0.99	2549	1.09
1300	1326	0.18	1484	0.26	1632	0.34	1766	0.43	1890	0.51	2006	0.60	2113	0.69	2216	0.78	2314	0.87	2408	0.97	2497	1.06	2582	1.16
1400	1407	0.21	1551	0.29	1693	0.38	1824	0.48	1944	0.57	2058	0.66	2164	0.75	2264	0.85	2360	0.95	2453	1.05	2542	1.15	2627	1.25
1500	1489	0.24	1622	0.33	1757	0.43	1884	0.53	2001	0.63	2101	0.72	2216	0.82	2316	0.92	2409	1.03	2499	1.13	2587	1.24	2672	1.34
1600	1571	0.28	1696	0.37	1823	0.48	1945	0.58	2059	0.69	2167	0.79	2269	0.90	2367	1.00	2461	1.11	2549	1.22	2634	1.33	2717	1.44
1700	1654	0.33	1771	0.42	1890	0.53	2007	0.64	2120	0.75	2225	0.87	2325	0.98	2420	1.09	2513	1.20	2601	1.31	2685	1.43	2766	1.55
1800	1738	0.38	1846	0.48	1960	0.59	2073	0.70	2181	0.82	2284	0.94	2382	1.06	2476	1.18	2565	1.29	2653	1.41	2736	0.53	2817	1.66
1900	1822	0.43	1925	0.53	2033	0.65	2140	0.77	2244	0.90	2345	1.02	2441	1.15	2533	1.27	2621	1.39	2705	1.52	2788	0.64	2868	1.77
2000	1907	0.49	2006	0.60	2107	0.72	2207	0.84	2310	0.97	2407	1.10	2501	1.24	2591	1.37	2678	1.50	2761	1.63	2841	1.76	2921	1.89
2100	1994	0.56	2088	0.67	2182	0.79	2278	0.92	2376	1.05	2470	1.19	2562	1.33	2651	1.47	2735	1.61	2818	1.75	2897	1.88	2973	2.02
2200	2080	0.63	2170	0.75	2258	0.87	2352	1.00	2443	1.14	2536	1.29	2624	1.43	2712	1.58	2795	1.72	2876	1.87	2954	2.01	3029	2.02
2300	2167	0.71	2253	0.83	2336	0.96	2426	1.10	2512	1.24	2603	1.39	2689	1.54	2773	1.69	2856	1.84	2935	2.00	3012	2.05	3086	2.29
2400	2254	0.79	2336	0.92	2417	1.05	2501	1.19	2586	1.34	2670	1.49	2755	1.65	2836	1.80	2917	1.97	2995	2.12	3071	2.29	3144	2.44
2500	2341	0.88	2420	1.02	2498	1.15	2577	1.30	2659	1.45	2738	1.60	2822	1.77	2902	1.93	2979	2.10	3057	2.26	3131	2.43	3203	2.59
2600	2428	0.98	2504	1.12	2580	1.26	2653	1.41	2734	1.56	2811	1.72	2889	1.89	2968	2.06	3044	2.23	3118	2.40	3192	2.57	3264	2.75
2700	2516	1.09	2588	1.24	2663	1.38	2733	1.53	2809	1.69	2885	1.85	2957	2.02	3035	2.19	3110	2.37	3182	2.55	3254	2.70	3325	2.91
2800	2604	1.20	2673	1.36	2745	1.51	2814	1.66	2884	1.82	2959	1.99	3030	2.16	3102	2.34	3176	2.52	3247	2.70	3316	2.89	3386	3.08
2900	2692	1.33	2759	1.48	2828	1.64	2896	1.80	2961	1.96	3034	2.13	3104	2.31	3171	2.49	3243	2.68	3314	2.87	3382	3.06	3448	3.25
3000	2780	1.46	2845	1.62	2912	1.78	2978	1.94	3041	2.11	3109	2.28	3178	2.47	3244	2.65	3311	2.84	3381	3.03	3448	3.23	3513	3.43

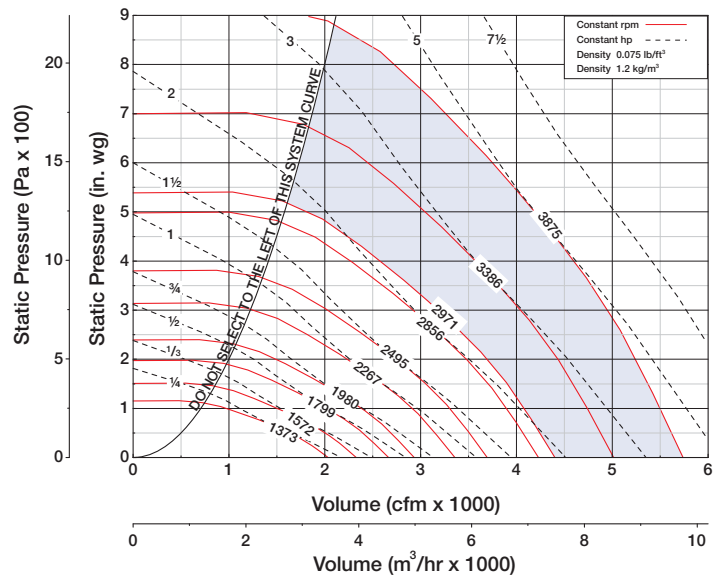
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	2549	1.09	2638	1.19	2724	1.30	2888	1.51																
1300	2582	1.16	2669	1.26	2755	1.37	2918	1.60	3071	1.83	3216	2.07												
1400	2627	1.25	2708	1.35	2787	1.46	2948	1.69	3101	1.92	3246	2.18	3384	2.43										
1500	2672	1.34	2753	1.45	2832	1.56	2981	1.78	3131	2.03	3276	2.28	3414	2.55	3546	2.82	3673	3.09						
1600	2717	1.44	2798	1.56	2877	1.56	3026	1.90	3166	2.14	3306	2.40	3444	2.67	3576	2.95	3702	3.23	3824	3.52	3942	3.81		
1700	2766	1.55	2844	1.67	2922	1.78	3070	2.03	3210	2.27	3343	2.53	3474	2.79	3606	3.08	3732	3.37	3854	3.67	3971	3.97	4085	4.28
1800	2817	1.66	2894	1.78	2969	1.90	3116	2.16	3255	2.41	3388	2.68	3514	2.94	3636	3.22	3762	3.52	3884	3.82	4001	4.04	4115	4.45
1900	2868	1.77	2945	1.90	3020	2.03	3162	2.29	3301	2.56	3433	2.83	3558	3.11	3679	3.39	3795	3.67	3914	3.98	4031	4.30	4145	4.63
2000	2921	1.89	2997	2.03	3071	2.16	3213	2.43	3346	2.71	3478	2.99	3603	3.28	3724	3.57	3839	3.86	3951	4.06	4062	4.47	4175	4.81
2100	2973	2.02	3050	2.16	3123	2.30	3264	2.58	3397	2.87	3524	3.16	3649	3.46	3769	3.76	3884	4.06	3995	4.37	4103	4.68	4207	5.00
2200	3029	2.15	3102	2.30	3176	2.44	3315	2.74	3448	3.03	3573	3.34	3695	3.64	3814	3.95	3929	4.27	4040	4.58	4147	4.91	4251	5.23
2300	3086	2.29	3159	2.44	3229	2.59	3368	2.90	3499	3.21	3624	3.52	3744	3.84	3860	4.16	3974	4.48	4085	4.81	4192	5.14		
2400	3144	2.44	3216	2.60	3286	2.75	3420	3.07	3551	3.38	3676	3.71	3795	4.03	3909	4.37	4020	4.70	4130	5.04	4237	5.38		
2500	3203	2.59	3274	2.76	3343	2.92	3475	3.24	3604	3.57	3728	3.90	3846	4.24	3960	4.58	4070	4.93	4176	5.28				
2600	3264	2.75	3333	2.92	3401	3.09	3532	3.43	3657	3.76	3780	4.11	3898	4.45	4012	4.81	4121	5.16	4227	5.52				
2700	3325	2.91	3393	3.09	3460	3.27	3589	3.62	3713	3.97	3833	4.32	3950	4.68	4063	5.04	4172	5.40						
2800	3386	3.08	3454	3.26	3520	3.45	3647	3.82	3770	4.18	3888	4.54	4003	4.91	4115	5.28	4224	5.66						
2900	3448	3.25	3516	3.44	3581	3.63	3707	4.02	3828	4.40	3945	4.77	4057	5.15	4168	5.53								
3000	3513	3.43	3578	3.63	3642	3.83	3767	4.22	3886	4.63	4002	5.01	4114	5.40	4221	5.79								
3100	3579	3.62	3642	3.82	3704	4.03	3828	4.44	3946	4.85	4060	5.26	4171	5.66										
3200	3645	3.81	3708	4.02	3768	4.24	3890	4.66	4007	5.08	4119	5.51	4229	5.93										
3300	3712	4.02	3774	4.23	3834	4.45	3951	4.89	4068	5.32	4179	5.76												
3400	3780	4.23	3841	4.45	3900	4.67	4015	5.13	4129	5.57	4240	6.02												
3500	3848	4.45	3908	4.68	3967	4.91	4080	5.37	4191	5.83														
3600	3919	4.69	3975	4.92	4034	5.15	4146	5.62	4254	6.10														

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 2971
PLG Class II	Maximum rpm 3875

Motor on Frame Limit	213T ODP 213T TEFC
Minimum Motor Size	¼ [hp]
Wheel Diameter	13.50 [in.] 343 [mm]
Peak Power	$(\text{rpm} / 1978)^3$ [hp] $(\text{rpm} / 2182)^3$ [kW]
Tip Speed	$\text{rpm} \times 3.53$ [ft/min] $\text{rpm} \times 0.0180$ [m/s]
Wheel Outlet Velocity	$(\text{cfm}) / 1.04$ [ft/min] $(\text{m}^3/\text{s}) / 0.612$ [m/s]
% Wide Open Volume (% WOV)	$(\text{cfm}) / (\text{rpm} \times 0.0148)$ $(\text{m}^3/\text{hr}) / (\text{rpm} \times 0.0252)$

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
800	806	0.07	1009	0.12	1175	0.18	1326	0.24	1462	0.32														
920	859	0.08	1054	0.14	1215	0.21	1356	0.27	1489	0.35	1611	0.43												
1040	915	0.10	1101	0.17	1258	0.24	1396	0.31	1519	0.39	1638	0.47	1750	0.56	1855	0.65								
1160	974	0.12	1152	0.19	1304	0.27	1437	0.35	1560	0.43	1671	0.52	1777	0.61	1882	0.71	1980	0.81	2073	0.91				
1280	1037	0.14	1205	0.22	1351	0.31	1483	0.39	1600	0.48	1711	0.57	1814	0.67	1910	0.76	2007	0.87	2100	0.98	2189	1.09	2273	1.20
1400	1103	0.17	1260	0.26	1402	0.35	1529	0.44	1646	0.54	1752	0.63	1854	0.73	1950	0.83	2040	0.94	2127	1.04	2216	1.16	2300	1.28
1520	1170	0.20	1318	0.29	1454	0.39	1578	0.49	1692	0.59	1798	0.70	1895	0.80	1990	0.91	2080	2.00	2165	1.13	2246	1.24	2327	1.36
1640	1240	0.23	1377	0.33	1509	0.44	1629	0.55	1739	0.66	1844	0.77	1941	0.88	2032	0.99	2121	1.11	2205	1.22	2286	1.34	2364	1.46
1760	1313	0.27	1439	0.38	1564	0.49	1681	0.61	1790	0.72	1891	0.84	1987	0.96	2077	1.08	2163	1.20	2246	1.32	2326	1.45	2404	1.57
1880	1387	0.32	1504	0.43	1623	0.55	1736	0.67	1841	0.80	1940	0.92	2034	1.04	2124	1.17	2209	1.30	2289	1.43	2367	1.56	2444	1.69
2000	1461	0.37	1571	0.48	1683	0.61	1791	0.74	1894	0.87	1991	1.00	2083	1.13	2171	1.26	2255	1.40	2335	1.53	2412	1.67	2485	1.81
2120	1536	0.42	1638	0.54	1743	0.67	1849	0.81	1949	0.95	2043	1.09	2134	1.23	2219	1.37	2302	1.51	2381	1.65	2458	1.79	2531	1.94
2240	1611	0.49	1706	0.61	1808	0.75	1908	0.89	2004	1.04	2097	1.18	2185	1.33	2270	1.48	2350	1.62	2428	1.77	2504	1.92	2577	2.07
2360	1687	0.55	1779	0.68	1874	0.82	1968	0.97	2062	1.13	2152	1.28	2239	1.44	2321	1.59	2400	1.75	2476	1.90	2551	2.06	2623	2.21
2480	1764	0.63	1852	0.76	1941	0.91	2030	1.06	2121	1.22	2208	1.39	2293	1.55	2374	1.72	2452	1.88	2527	2.04	2599	2.20	2671	2.36
2600	1841	0.71	1925	0.85	2008	1.00	2095	1.16	2218	1.32	2266	1.49	2348	1.67	2428	1.84	2504	2.01	2578	2.18	2650	2.35	2719	2.52
2720	1919	0.80	1999	0.95	2076	1.10	2161	1.26	2242	1.43	2325	1.61	2404	1.79	2483	1.97	2558	2.15	2630	2.33	2701	2.51	2770	2.68
2840	1997	0.90	2073	1.05	2148	1.21	2228	1.37	2306	1.55	2385	1.73	2463	1.92	2538	2.11	2613	2.29	2684	2.48	2753	2.67	2821	2.85
2960	2075	1.00	2148	1.16	2221	1.32	2295	1.49	2371	1.68	2446	1.86	2523	2.05	2596	2.25	2668	2.44	2739	2.64	2807	2.84	2873	3.03
3080	2153	1.12	2223	1.28	2294	1.45	2363	1.62	2438	1.81	2509	2.00	2583	2.20	2655	2.40	2724	2.60	2794	2.80	2861	3.01	2926	3.22
3200	2231	1.24	2299	1.41	2367	1.58	2433	1.76	2504	1.95	2574	2.15	2643	2.35	2715	2.56	2783	2.77	2850	2.98	2916	3.19	2981	3.40
3320	2310	1.37	2375	1.55	2441	1.73	2505	1.91	2572	2.10	2640	2.30	2706	2.51	2775	2.72	2842	2.94	2907	3.16	2972	3.38	3036	3.60
3440	2389	1.51	2451	1.70	2516	1.88	2578	2.07	2640	2.26	2707	2.47	2772	2.68	2836	2.90	2902	3.12	2967	3.35	3029	3.57	3091	3.80
3560	2468	1.66	2528	1.85	2590	2.04	2651	2.24	2709	2.43	2774	2.65	2838	2.86	2899	3.09	2963	3.31	3026	3.54	3088	3.78	3147	4.01
3680	2547	1.82	2606	2.02	2665	2.22	2724	2.41	2781	2.62	2842	2.83	2904	3.05	2964	3.28	3024	3.51	3086	3.75	3147	3.99	3206	4.23

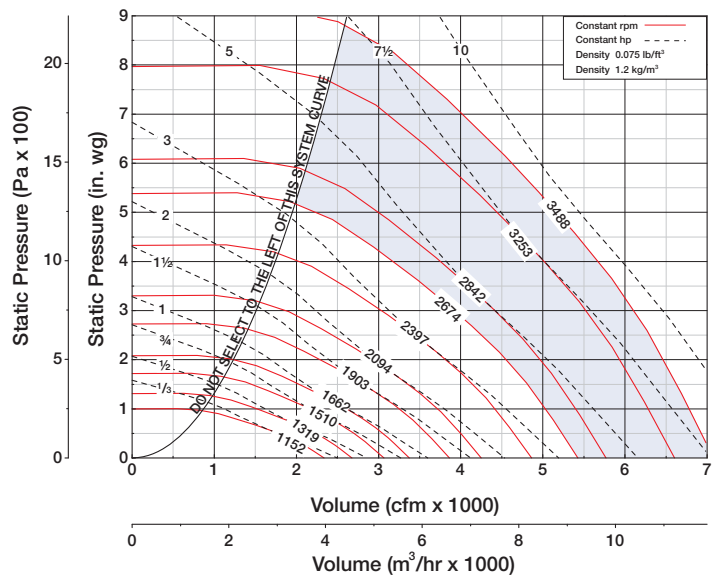
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1520	2327	1.36	2408	1.49	2486	1.62	2634	1.89	2774	2.17														
1640	2364	1.46	2438	1.58	2514	1.72	2661	2.00	2801	2.28	2932	2.58												
1760	2404	1.57	2478	1.70	2549	1.83	2689	2.10	2827	2.40	2959	2.71	3084	3.02	3204	3.34								
1880	2444	1.69	2518	1.82	2589	1.96	2725	2.24	2855	2.52	2986	2.84	3111	3.16	3231	3.50	3345	3.84	3456	4.18				
2000	2485	1.81	2559	1.95	2629	2.09	2765	2.38	2892	2.68	3013	2.98	3138	3.31	3258	3.65	3372	4.00	3483	4.36	3589	4.72	3692	5.09
2120	2531	1.94	2601	2.09	2670	2.23	2805	2.53	2932	2.84	3052	3.15	3167	3.47	3285	3.82	3399	4.18	3510	4.54	3616	4.91	3719	5.30
2240	2577	2.07	2647	2.23	2715	2.38	2846	2.69	2972	3.01	3092	3.33	3207	3.66	3316	4.00	3426	4.35	3537	4.73	3643	5.10	3746	5.50
2360	2623	2.21	2693	2.37	2760	2.53	2889	2.86	3013	3.19	3133	3.52	3247	3.86	3356	4.21	3461	4.56	3564	4.92	3670	5.31	3773	5.72
2480	2671	2.36	2740	2.53	2807	2.69	2935	3.03	3055	3.37	3173	3.72	3287	4.07	3396	4.43	3501	4.79	3602	5.16	3700	5.53	3800	5.93
2600	2719	2.52	2787	2.69	2854	2.86	2981	3.21	3101	3.57	3215	3.93	3328	4.29	3436	4.66	3541	5.04	3642	5.41	3739	5.80	3834	6.18
2720	2770	2.68	2836	2.86	2901	3.04	3027	3.40	3147	3.77	3261	4.14	3370	4.52	3477	4.90	3581	5.29	3682	5.68	3779	6.07	3874	6.47
2840	2821	2.85	2887	3.04	2950	3.22	3074	3.60	3193	3.98	3307	4.36	3415	4.75	3519	5.15	3622	5.54	3723	5.95	3820	6.35		
2960	2873	3.03	2938	3.22	3001	3.42	3122	3.80	3240	4.19	3353	4.59	3461	4.99	3565	5.40	3664	5.81	3763	6.23	3860	6.65		
3080	2926	3.22	2990	3.42	3052	3.62	3172	4.02	3288	4.42	3400	4.83	3507	5.24	3610	5.66	3710	6.09	3806	6.52				
3200	2981	3.40	3043	3.62	3104	3.83	3223	4.24	3337	4.66	3447	5.08	3554	5.51	3657	5.94	3756	6.37	3851	6.81				
3320	3036	3.60	3098	3.82	3158	4.04	3275	4.47	3387	4.90	3495	5.34	3601	5.78	3703	6.22	3802	6.67						
3440	3091	3.80	3152	4.03	3212	4.26	3327	4.72	3439	5.16	3545	5.61	3649	6.06	3750	6.51	3848	6.97						
3560	3147	4.01	3208	4.25	3267	4.48	3381	4.96	3490	5.43	3596	5.88	3698	6.35	3798	6.82								
3680	3206	4.23	3264	4.48	3322	4.72	3435	5.21	3543	5.70	3648	6.17	3749	6.65	3846	7.13								
3800	3265	4.46	3322	4.71	3378	4.96	3490	5.46	3597	5.97	3700	6.48	3800	6.96										
3920	3325	4.70	3381	4.96	3436	5.21	3545	5.73	3651	6.25	3753	6.78	3852	7.29										
4040	3385	4.95	3441	5.21	3495	5.48	3601	6.01	3706	6.54	3807	7.08												
4160	3446	5.21	3501	5.48	3555	5.75	3658	6.30	3761	6.84	3861	7.40												
4280	3507	5.48	3561	5.75	3615	6.03	3717	6.59	3817	7.16														
4400	3572	5.76	3622	6.04	3675	6.33	3777	6.90	3874	7.48														

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 2674
PLG Class II	Maximum rpm 3488

Motor on Frame Limit	215T ODP 215T TEFC
Minimum Motor Size	¼ [hp]
Wheel Diameter	15.00 [in.] 381 [mm]
Peak Power	$(\text{rpm} / 1661)^3$ [hp] $(\text{rpm} / 1832)^3$ [kW]
Tip Speed	$\text{rpm} \times 3.93$ [ft/min] $\text{rpm} \times 0.0199$ [m/s]
Wheel Outlet Velocity	$(\text{cfm}) / 1.30$ [ft/min] $(\text{m}^3/\text{s}) / 0.767$ [m/s]
% Wide Open Volume (% WOV)	$(\text{cfm}) / (\text{rpm} \times 0.0203)$ $(\text{m}^3/\text{hr}) / (\text{rpm} \times 0.0345)$

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	730	0.08	912	15.00	1061	0.22	1196	0.30	1318	0.39														
1150	778	0.10	953	18.00	1098	0.26	1224	0.34	1343	0.44	1453	0.54												
1300	830	0.12	996	21.00	1137	0.30	1261	0.39	1372	0.48	1477	0.59	1579	0.70	1673	0.81								
1450	884	0.15	1043	0.24	1179	0.34	1299	0.44	1409	0.54	1509	0.65	1603	0.76	1697	0.88	1786	1.00	1870	1.13	1950	1.27	2050	1.50
1600	942	0.18	1092	0.28	1223	0.39	1341	0.49	1447	0.60	1546	0.72	1639	0.83	1725	0.95	1811	1.08	1894	1.22	1974	1.36	2050	1.50
1750	1002	0.21	1142	0.32	1269	0.44	1383	0.55	1488	0.67	1584	0.79	1675	0.92	1761	1.04	1842	1.17	1919	1.30	1999	1.45	2075	1.60
1900	1064	0.25	1195	0.37	1317	0.50	1428	0.62	1531	0.74	1625	0.87	1714	1.00	1798	1.14	1879	1.27	1955	1.41	2028	1.55	2099	1.70
2050	1129	0.30	1250	0.42	1367	0.56	1475	0.69	1574	0.82	1668	0.96	1755	1.10	1837	1.24	1916	1.38	1992	1.53	2065	1.68	2134	1.83
2200	1195	0.35	1307	0.48	1418	0.62	1523	0.77	1620	0.91	1711	1.05	1797	1.20	1879	1.35	1956	1.50	2030	1.65	2102	1.80	2171	1.97
2350	1262	0.40	1367	0.54	1472	0.69	1573	0.85	1667	1.00	1756	1.15	1840	1.31	1921	1.46	1997	1.62	2070	1.79	2139	1.95	2208	2.11
2500	1330	0.47	1428	0.61	1527	0.77	1624	0.93	1716	1.10	1803	1.26	1885	1.42	1964	1.59	2039	1.75	2112	1.92	2181	2.09	2247	2.27
2650	1399	0.54	1489	0.69	1583	0.85	1677	1.02	1766	1.20	1851	1.38	1932	1.55	2008	1.72	2082	1.89	2154	2.07	2223	2.25	2288	2.43
2800	1467	0.62	1553	0.77	1642	0.94	1731	1.12	1817	1.31	1901	1.49	1979	1.68	2055	1.86	2127	2.04	2197	2.22	2265	2.41	2330	2.60
2950	1537	0.71	1619	0.87	1703	1.04	1786	1.23	1870	1.42	1951	1.62	2028	1.81	2102	2.01	2173	2.20	2241	2.39	2308	2.58	2373	2.78
3100	1607	0.80	1685	0.97	1764	1.15	1843	1.34	1925	1.54	2002	1.75	2078	1.95	2151	2.16	2220	2.36	2288	2.56	2352	2.76	2416	2.96
3250	1677	0.90	1752	1.08	1826	1.27	1903	1.47	1980	1.67	2056	1.88	2129	2.10	2200	2.31	2268	2.53	2335	2.74	2399	2.95	2461	3.16
3400	1748	1.02	1820	1.21	1889	1.39	1964	1.60	2035	1.81	2110	2.03	2181	2.26	2250	2.48	2318	2.71	2383	2.93	2446	3.15	2507	3.37
3550	1819	1.15	1888	1.34	1955	1.53	2025	1.74	2094	1.96	2165	2.19	2235	2.42	2301	2.65	2368	2.89	2432	3.12	2494	3.36	2554	3.59
3700	1891	1.28	1956	1.48	2021	1.68	2086	1.89	2155	2.12	2220	2.35	2289	2.59	2355	2.84	2419	3.08	2482	3.32	2543	3.57	2602	3.82
3850	1962	1.43	2025	1.63	2088	1.84	2149	2.06	2215	2.29	2279	2.53	2344	2.77	2409	3.03	2471	3.28	2533	3.53	2593	3.79	2651	4.05
4000	2034	1.58	2094	1.80	2155	2.02	2213	2.23	2276	2.47	2339	2.72	2399	2.97	2463	3.23	2525	3.49	2584	3.76	2643	4.02	2701	4.28
4150	2105	1.75	2163	1.98	2223	2.20	2279	2.43	2338	2.66	2399	2.92	2458	3.20	2518	3.44	2579	3.71	2637	3.98	2694	4.26	2752	4.53
4300	2177	1.93	2233	2.16	2290	2.39	2346	2.63	2400	2.87	2460	3.13	2518	3.39	2574	3.66	2634	3.94	2691	4.22	2747	4.51	2802	4.79
4450	2249	2.12	2304	2.36	2359	2.60	2413	2.84	2465	3.09	2522	3.35	2578	3.62	2633	3.90	2689	4.18	2746	4.47	2801	4.76	2855	5.06
4600	2322	2.33	2374	2.58	2427	2.82	2480	3.07	2531	3.32	2584	3.59	2639	3.87	2693	4.15	2745	4.44	2801	4.73	2855	5.03	2908	5.34

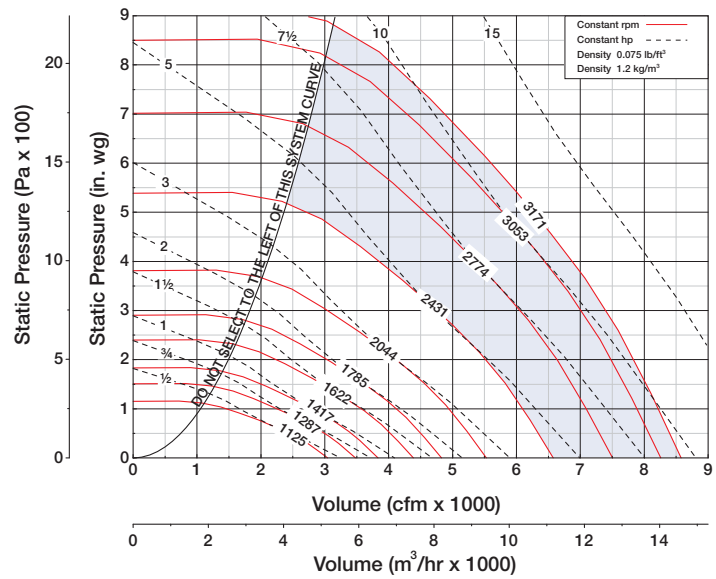
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1750	2075	1.60	2148	1.75	2218	1.90	2352	2.23																
1900	2099	1.70	2172	1.86	2243	2.02	2376	2.35	2501	2.70														
2050	2134	1.83	2201	1.98	2267	2.14	2400	2.48	2526	2.84	2644	3.21	2757	3.59										
2200	2171	1.97	2238	2.13	2302	2.29	2425	2.62	2550	2.99	2669	3.37	2782	3.76	2889	4.16								
2350	2208	2.11	2275	2.28	2339	2.45	2460	2.79	2575	3.14	2693	3.54	2806	3.94	2914	4.35	3017	4.77	3117	5.20				
2500	2247	2.27	2312	2.44	2376	2.62	2497	2.98	2612	3.34	2720	3.72	2831	4.12	2938	4.55	3042	4.98	3141	5.43	3237	5.88	3330	6.34
2650	2288	2.43	2352	2.61	2413	2.80	2534	3.17	2648	3.55	2756	3.94	2860	4.33	2963	4.75	3066	5.20	3165	5.66	3261	6.12	3354	6.59
2800	2330	2.60	2394	2.79	2454	2.98	2572	3.37	2685	3.83	2793	4.17	2896	4.58	2994	4.99	3091	5.42	3190	5.89	3286	6.37	3379	6.85
2950	2373	2.78	2436	2.97	2496	3.17	2612	3.58	2723	3.99	2830	4.41	2933	4.83	3031	5.26	3125	5.70	3216	6.14	3310	6.62	3403	7.12
3100	2416	2.96	2478	3.17	2539	3.38	2654	3.80	2762	4.23	2867	4.66	2970	5.10	3068	5.54	3162	5.99	3253	6.45	3340	6.91	3428	7.39
3250	2461	3.16	2521	3.38	2581	3.59	2696	4.03	2804	4.47	2907	4.92	3007	5.37	3105	5.83	3199	6.30	3289	6.77	3377	7.25	3462	7.73
3400	2507	3.37	2567	3.59	2624	3.81	2738	4.26	2846	4.72	2948	5.19	3047	5.66	3142	6.13	3236	6.61	3326	7.10	3414	7.59		
3550	2554	3.59	2613	3.82	2670	4.05	2781	4.51	2888	4.99	2990	5.47	3088	5.95	3182	6.45	3273	6.94	3363	7.44	3450	7.95		
3700	2602	3.82	2660	4.06	2717	4.29	2825	4.77	2931	5.26	3033	5.76	3130	6.26	3223	6.77	3313	7.28	3401	7.80	3488	8.32		
3850	2651	4.05	2708	4.31	2764	4.55	2872	5.05	2974	5.55	3075	6.06	3172	6.58	3265	7.10	3354	7.63	3441	8.16				
4000	2701	4.28	2757	4.55	2812	4.82	2918	5.33	3020	5.85	3118	6.37	3215	6.91	3307	7.00	3396	7.99	3482	8.53				
4150	2752	4.53	2807	4.81	2861	5.08	2966	5.63	3066	6.16	3163	6.70	3258	7.25	3350	7.80	3438	8.36						
4300	2802	4.79	2857	5.07	2911	5.36	3014	5.94	3113	6.49	3209	7.04	3301	7.60	3392	8.17	3481	8.74						
4450	2855	5.06	2908	5.35	2961	5.65	3063	6.24	3161	6.83	3256	7.40	3347	7.97	3436	8.56								
4600	2908	5.43	2960	5.64	3012	5.95	3113	6.55	3209	7.17	3303	7.77	3394	8.36	3481	8.96								
4750	2963	5.63	3014	5.94	3063	6.26	3163	6.88	3259	7.51	3351	8.15	3441	8.76										
4900	3017	5.93	3068	6.25	3117	6.58	3214	7.22	3309	7.87	3400	8.53												
5050	3072	6.25	3122	6.58	3171	6.91	3265	7.58	3359	8.24	3449	8.91												
5200	3128	6.58	3177	6.90	3225	7.25	3318	7.94	3410	8.63														
5350	3185	6.92	3232	7.27	3280	7.61	3372	8.31	3461	9.03														

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 2431
PLG Class II	Maximum rpm 3171

Motor on Frame Limit	215T ODP 215T TEFC
Minimum Motor Size	1/3 [hp]
Wheel Diameter	16.50 [in.] 419 [mm]
Peak Power	(rpm / 1416) ³ [hp] (rpm / 1561) ³ [kW]
Tip Speed	rpm x 4.32 [ft/min] rpm x 0.0219 [m/s]
Wheel Outlet Velocity	(cfm) / 1.56 [ft/min] (m ³ /s) / 0.920 [m/s]
% Wide Open Volume (% WOV)	(cfm) / (rpm x 0.0271) (m ³ /hr) / (rpm x 0.0460)

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	660	0.10	826	0.18	962	0.27	1086	0.37	1196	0.47	1318	0.64												
1375	703	0.02	862	0.21	994	0.31	1109	0.41	1218	0.52	1318	0.64												
1550	747	0.15	900	0.25	1028	0.35	1141	0.46	1242	0.58	1339	0.70	1431	0.83	1517	0.97								
1725	795	0.17	940	0.29	1065	0.40	1174	0.52	1274	0.64	1366	0.77	1453	0.90	1539	1.05	1619	1.02	1695	1.36				
1900	844	0.21	983	0.33	1103	0.46	1210	0.58	1307	0.72	1398	0.85	1482	0.99	1561	1.13	1641	1.29	1717	1.45	1789	1.62	1858	1.79
2075	897	0.25	1027	0.38	1143	0.52	1247	0.65	1343	0.79	1430	0.94	1514	1.08	1592	1.23	1666	1.39	1738	1.55	1811	1.72	1880	1.90
2250	951	0.29	1072	0.43	1185	0.58	1286	0.73	1380	0.88	1466	1.03	1547	1.19	1625	1.34	1698	1.51	1767	1.67	1834	1.84	1901	2.02
2425	1007	0.34	1120	0.49	1228	0.65	1327	0.81	1417	0.97	1503	1.13	1583	1.29	1657	1.46	1730	1.63	1800	1.81	1866	1.98	1929	2.16
2600	1065	0.40	1168	0.55	1272	0.72	1368	0.90	1457	1.06	1540	1.23	1619	1.41	1693	1.59	1763	1.77	1832	1.95	1898	2.13	1961	2.32
2775	1123	0.46	1220	0.62	1318	0.80	1412	0.99	1498	1.17	1579	1.35	1657	1.53	1730	1.72	1800	1.91	1866	2.10	1930	2.29	1993	2.49
2950	1182	0.53	1273	0.70	1366	0.89	1456	1.08	1540	1.28	1620	1.47	1695	1.66	1768	1.86	1837	2.06	1902	2.26	1965	2.46	2026	2.67
3125	1242	0.61	1327	0.79	1414	0.98	1501	1.19	1584	1.39	1661	1.60	1735	1.80	1805	2.01	1874	2.21	1939	2.42	2002	2.63	2062	2.85
3300	1302	0.70	1382	0.88	1465	1.08	1548	1.30	1628	1.52	1704	1.73	1777	1.95	1846	2.16	1912	2.38	1977	2.60	2039	2.82	2098	3.04
3475	1362	0.80	1439	0.99	1518	1.20	1596	1.42	1673	1.64	1748	1.87	1819	2.11	1887	2.33	1952	2.56	2014	2.78	2076	3.01	2135	3.25
3650	1424	0.91	1497	1.10	1571	1.32	1645	1.54	1720	1.78	1792	2.02	1862	2.26	1928	2.51	1993	2.74	2054	2.98	2114	3.22	2173	3.46
3825	1485	1.02	1555	1.20	1625	1.45	1696	1.68	1768	1.93	1838	2.18	1906	2.43	1972	2.69	2034	2.94	2095	3.19	2154	3.43	2211	3.68
4000	1547	1.15	1614	1.36	1679	1.59	1749	1.83	1816	2.08	1885	2.34	1950	2.61	2015	2.87	2077	3.14	2137	3.40	2195	3.66	2251	3.92
4175	1609	1.29	1673	1.51	1735	1.74	1802	1.99	1866	2.25	1933	2.52	1997	2.79	2059	3.07	2121	3.34	2179	3.62	2236	3.90	2292	4.17
4350	1671	1.43	1733	1.67	1793	1.91	1855	2.16	1918	2.43	1981	2.70	2044	2.99	2104	3.27	2164	3.56	2223	3.85	2278	4.14	2333	4.42
4525	1734	1.59	1793	1.84	1851	2.08	1910	2.34	1971	2.62	2029	2.90	2092	3.19	2151	3.49	2209	3.79	2266	4.09	2322	4.39	2375	4.69
4700	1796	1.77	1853	2.02	1912	2.27	1964	2.53	2024	2.82	2082	3.11	2140	3.40	2199	3.71	2255	4.02	2311	4.33	2365	4.64	2418	4.96
4875	1859	1.95	1913	2.22	1969	2.48	2022	2.75	2078	3.03	2134	3.33	2189	3.63	2246	3.95	2302	4.27	2356	4.59	2410	4.91	2462	5.24
5050	1922	2.15	1974	2.42	2028	2.69	2079	2.97	2132	3.26	2187	3.57	2240	3.88	2295	4.20	2350	4.53	2403	4.86	2454	5.20	2506	5.53
5225	1985	2.36	2035	2.64	2087	2.92	2138	3.21	2187	3.50	2241	3.81	2293	4.13	2343	4.46	2398	4.80	2450	5.14	2501	5.49	2551	5.83
5400	2048	2.59	2097	2.88	2147	3.17	2196	3.46	2244	3.76	2295	4.08	2346	4.41	2396	4.74	2446	5.08	2498	5.43	2548	5.79	2597	6.15

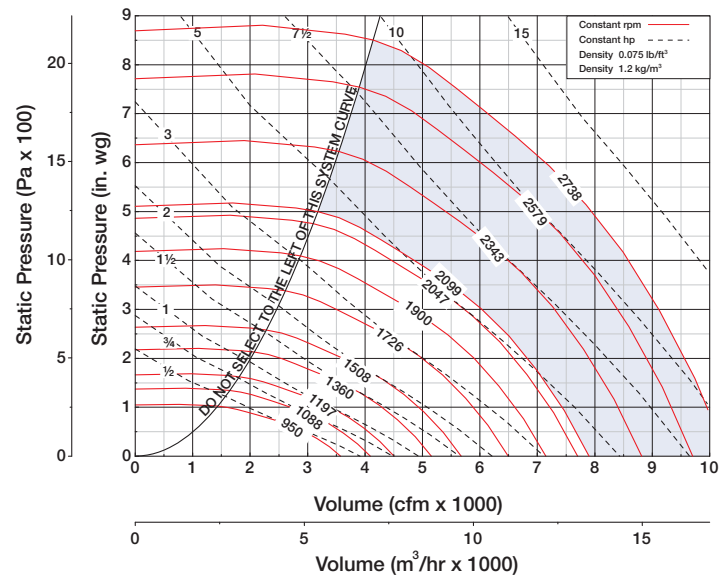
CFM	Static Pressure (in. wg)																								
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
2075	1880	1.90	1946	2.09	2010	2.27																			
2250	1901	2.02	1968	2.21	2032	2.41	2153	2.80	2267	3.22															
2425	1929	2.16	1990	2.34	2053	2.54	2174	2.96	2288	3.38	2396	3.82													
2600	1961	2.32	2022	2.51	2080	2.70	2196	3.11	2310	3.56	2417	4.01	2520	4.48	2618	4.96									
2775	1993	2.49	2054	2.69	2112	2.89	2223	3.30	2331	3.73	2439	4.20	2541	4.68	2639	5.18	2733	5.68							
2950	2026	2.67	2086	2.87	2144	3.08	2255	3.51	2359	3.94	2460	4.40	2563	4.90	2660	5.41	2754	5.92	2845	6.45	2932	6.99			
3125	2062	2.85	2119	3.07	2177	3.29	2287	3.73	2391	4.18	2489	4.64	2584	5.12	2682	5.64	2776	6.17	2866	6.72	2953	7.27	3038	7.84	
3300	2098	3.04	2156	3.27	2211	3.50	2319	3.96	2423	4.43	2521	4.91	2615	5.39	2705	5.89	2797	6.43	2888	6.99	2975	7.56	3059	8.14	
3475	2135	3.25	2192	3.48	2248	3.72	2353	4.20	2455	4.69	2553	5.18	2647	5.68	2736	6.19	2822	6.71	2909	7.27	2996	7.85	3080	8.44	
3650	2173	3.46	2230	3.70	2284	3.95	2389	4.45	2488	4.95	2586	5.47	2679	5.99	2768	6.52	2854	7.05	2937	7.59	3018	8.15	3102	8.76	
3825	2211	3.68	2267	3.94	2322	4.19	2426	4.71	2525	5.23	2619	5.76	2711	6.30	2800	6.85	2886	7.40	2968	7.96	3048	8.52	3126	9.10	
4000	2251	3.92	2305	4.18	2359	4.44	2463	4.98	2561	5.52	2654	6.07	2744	6.63	2833	7.19	2918	7.76	3001	8.34	3080	8.92	3157	9.51	
4175	2292	4.17	2345	4.44	2397	4.71	2500	5.26	2598	5.82	2691	6.39	2780	6.96	2866	7.55	2951	8.13	3033	8.73	3112	9.33			
4350	2333	4.42	2386	4.70	2438	4.99	2538	5.55	2635	6.30	2728	6.72	2816	7.31	2901	7.91	2984	8.52	3065	9.30	3145	9.75			
4525	2375	4.69	2428	4.98	2479	5.28	2577	5.86	2673	6.46	2765	7.06	2853	7.67	2938	8.29	3019	8.91	3098	9.55					
4700	2418	4.96	2470	5.27	2520	5.58	2618	6.18	2711	6.80	2802	7.42	2890	8.05	2974	8.68	3056	9.32	3134	9.97					
4875	2462	5.24	2513	5.56	2562	5.89	2659	6.52	2751	7.15	2840	7.79	2927	8.43	3011	9.09	3092	9.75	3170	10.4					
5050	2506	5.53	2557	5.86	2606	6.20	2700	6.87	2792	7.52	2879	8.17	2965	8.84	3049	9.51	3129	10.2							
5225	2551	5.83	2601	6.18	2649	6.52	2743	7.22	2833	7.90	2920	8.57	3003	9.25	3086	9.94	3166	10.6							
5400	2597	6.15	2645	6.50	2693	6.86	2786	7.58	2875	8.29	2961	8.99	3044	9.69	3124	10.4									
5575	2644	6.47	2690	6.84	2737	7.21	2829	7.94	2917	8.69	3002	9.42	3085	10.1	3164	10.9									
5750	2691	6.81	2737	7.19	2783	7.57	2873	8.33	2960	9.09	3044	9.86	3126	10.6											
5925	2739	7.16	2785	7.55	2829	7.94	2918	8.73	3004	9.51	3087	10.3	3167	11.0											
6100	2787	7.53	2832	7.92	2877	8.33	2962	9.14	3048	9.94	3130	10.8													
6275	2835	7.91	2880	8.32	2924	8.73	3009	9.56	3092	10.4															

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 2099
PLG Class II	Maximum rpm 2738

Motor on Frame Limit	254T ODP 254T TEFC
Minimum Motor Size	1/3 [hp]
Wheel Diameter	18.25 [in.] 464 [mm]
Peak Power	$(\text{rpm} / 1197)^3$ [hp] $(\text{rpm} / 1320)^3$ [kW]
Tip Speed	$\text{rpm} \times 4.78$ [ft/min] $\text{rpm} \times 0.0243$ [m/s]
Wheel Outlet Velocity	$(\text{cfm}) / 1.92$ [ft/min] $(\text{m}^3/\text{s}) / 1.13$ [m/s]
% Wide Open Volume (% WOV)	$(\text{cfm}) / (\text{rpm} \times 0.0376)$ $(\text{m}^3/\text{hr}) / (\text{rpm} \times 0.0639)$

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	566	0.10	714	0.19	834	0.29	944	0.39																
1700	599	0.12	740	0.22	857	0.33	960	0.43	1057	0.55														
1900	636	0.15	767	0.26	882	0.37	982	0.48	1073	0.60	1160	0.73	1243	0.87										
2100	675	0.17	796	0.29	908	0.41	1006	0.54	1095	0.67	1177	0.80	1256	0.94	1334	1.09								
2300	718	0.21	829	0.33	936	0.46	1032	0.60	1119	0.74	1199	0.88	1275	1.02	1347	1.18	1419	1.33	1488	1.49				
2500	761	0.24	864	0.37	965	0.52	1059	0.66	1145	0.81	1223	0.96	1297	1.11	1367	1.27	1435	1.43	1501	1.60	1566	1.77	1629	1.95
2700	807	0.28	902	0.42	996	0.57	1087	0.73	1171	0.88	1249	1.04	1321	1.21	1390	1.37	1455	1.54	1519	1.72	1580	1.90	1642	2.08
2900	853	0.33	940	0.47	1029	0.63	1116	0.80	1198	0.97	1275	1.13	1347	1.31	1414	1.48	1478	1.66	1539	1.84	1600	2.03	1658	2.22
3100	901	0.38	982	0.53	1065	0.70	1147	0.88	1227	1.05	1302	1.23	1373	1.41	1440	1.60	1503	1.79	1564	1.98	1622	2.17	1678	2.35
3300	949	0.44	1025	0.60	1103	0.77	1181	0.96	1256	1.15	1330	1.33	1400	1.52	1466	1.72	1529	1.91	1589	2.11	1646	2.32	1701	2.52
3500	997	0.51	1069	0.67	1141	0.85	1215	1.04	1288	1.24	1359	1.44	1428	1.64	1493	1.84	1555	2.05	1615	2.26	1671	2.47	1726	2.68
3700	1046	0.58	1113	0.75	1182	0.95	1253	1.13	1322	1.34	1389	1.56	1456	1.77	1520	1.98	1582	2.19	1641	2.41	1697	2.63	1751	2.85
3900	1095	0.66	1160	0.84	1225	1.03	1291	1.23	1356	1.45	1422	1.67	1485	1.90	1549	2.12	1609	2.34	1667	2.56	1723	2.79	1777	3.03
4100	1146	0.74	1207	0.93	1268	1.13	1329	1.34	1393	1.56	1456	1.79	1518	2.03	1578	2.27	1638	2.50	1694	2.73	1750	2.97	1804	3.21
4300	1196	0.84	1254	1.04	1312	1.24	1371	1.46	1432	1.69	1490	1.92	1551	2.17	1609	2.42	1666	2.66	1723	2.91	1777	3.15	1830	3.40
4500	1247	0.94	1302	1.15	1357	1.36	1414	1.59	1470	1.82	1528	2.06	1584	2.31	1642	2.57	1697	2.83	1752	3.09	1806	3.34	1857	3.60
4700	1298	1.06	1350	1.27	1402	1.49	1457	1.72	1510	1.96	1566	2.21	1620	2.47	1675	2.73	1729	3.00	1781	3.28	1835	3.54	1886	3.81
4900	1350	1.18	1398	1.39	1449	1.63	1501	1.86	1553	2.11	1605	2.37	1658	2.63	1709	2.90	1763	3.18	1814	3.47	1864	3.75	1915	4.03
5100	1401	1.31	1447	1.53	1496	1.77	1545	2.02	1596	2.27	1644	2.53	1696	2.81	1746	3.08	1796	3.37	1847	3.66	1896	3.96	1944	4.26
5300	1453	1.46	1496	1.68	1544	1.93	1590	2.18	1639	2.44	1686	2.71	1735	2.99	1784	3.27	1832	3.57	1880	3.86	1929	4.17	1976	4.48
5500	1504	1.61	1545	1.84	1592	2.10	1636	2.36	1683	2.63	1729	2.90	1773	3.18	1822	3.48	1869	3.78	1915	4.08	1962	4.39	2009	4.71
5700	1556	1.78	1595	2.01	1640	2.27	1683	2.54	1727	2.82	1772	3.10	1816	3.39	1861	3.69	1907	4.00	1952	4.31	1996	4.62	2042	4.95
5900	1608	1.95	1646	2.20	1688	2.46	1731	2.74	1771	3.02	1816	3.31	1859	3.61	1900	3.91	1946	4.23	1990	4.55	2033	4.87	2076	5.20
6100	1660	2.14	1697	2.39	1736	2.66	1778	2.95	1818	3.24	1860	3.54	1902	3.84	1943	4.15	1984	4.47	2028	4.80	2070	5.13	2111	5.46
6300	1712	2.34	1748	2.60	1785	2.88	1826	3.17	1865	3.47	1904	3.77	1946	4.08	1986	4.40	2024	4.72	2067	5.06	2108	5.40	2149	5.74

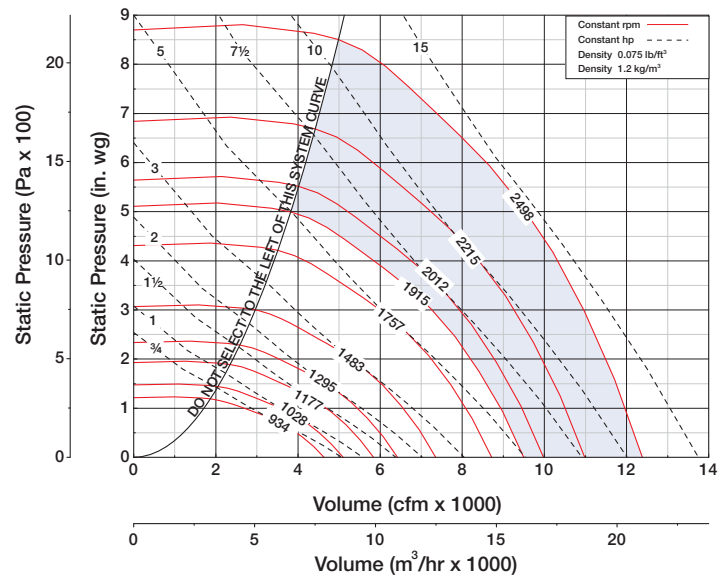
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2900	1658	2.22	1715	2.41	1772	2.61	1882	3.01																
3100	1678	2.36	1734	2.56	1788	2.77	1895	3.19	1997	3.62														
3300	1701	2.52	1755	2.73	1808	2.94	1910	3.37	2010	3.82	2108	4.27												
3500	1726	2.68	1779	2.90	1830	3.12	1930	3.56	2026	4.02	2120	4.49	2213	4.98	2301	5.47								
3700	1751	2.85	1803	3.08	1854	3.30	1951	3.76	2046	4.24	2137	4.72	2226	5.22	2314	5.73	2399	6.25						
3900	1777	3.03	1829	3.26	1879	3.50	1975	3.98	2067	4.46	2156	4.96	2243	5.47	2327	5.99	2412	6.53	2493	7.07	2572	7.62		
4100	1804	3.21	1855	3.45	1905	3.70	2000	4.20	2091	4.70	2177	5.21	2262	5.74	2345	6.27	2425	6.82	2506	7.38	2585	7.95	2661	8.52
4300	1830	3.40	1882	3.65	1931	3.90	2026	4.42	2115	4.95	2201	5.48	2283	6.01	2365	6.56	2444	7.20	2521	7.69	2598	8.28	2674	8.87
4500	1857	3.60	1908	3.86	1958	4.12	2052	4.65	2141	5.20	2226	5.75	2307	6.30	2386	6.86	2464	7.44	2540	8.02	2614	8.62	2687	9.22
4700	1886	3.81	1936	4.08	1984	4.35	2078	4.90	2167	5.46	2251	6.03	2332	6.60	2410	7.18	2485	7.77	2560	8.36	2633	8.97	2705	9.59
4900	1915	4.03	1964	4.30	2012	4.58	2105	5.15	2193	5.73	2277	6.31	2357	6.91	2434	7.51	2509	8.11	2582	8.72	2653	9.34	2724	9.98
5100	1944	4.26	1993	4.54	2040	4.83	2132	5.41	2219	6.00	2303	6.61	2383	7.22	2460	7.84	2534	8.47	2606	9.09	2676	9.73		
5300	1976	4.48	2022	4.79	2069	5.08	2159	5.68	2246	6.29	2329	6.91	2409	7.54	2485	8.18	2559	8.83	2630	9.48	2700	10.1		
5500	2009	4.71	2054	5.03	2098	5.35	2188	5.97	2273	6.59	2356	7.23	2435	7.88	2511	8.53	2585	9.19	2655	9.86	2724	10.5		
5700	2042	4.95	2087	5.28	2130	5.61	2217	6.26	2302	6.91	2383	7.56	2462	8.22	2538	8.89	2611	9.57	2681	10.3				
5900	2076	5.20	2120	5.54	2163	5.88	2246	6.57	2330	7.23	2411	7.90	2489	8.58	2564	9.26	2637	9.96	2707	10.7				
8100	2111	5.46	2154	5.81	2196	6.15	2278	6.87	2359	7.56	2439	8.25	2516	8.94	2591	9.65	2663	10.4	2734	11.1				
6300	2149	5.74	2188	6.09	2230	6.44	2311	7.17	2389	7.90	2468	8.62	2544	9.33	2618	10.0	2690	10.9						
6500	2187	6.03	2226	6.38	2264	6.74	2345	7.49	2422	8.24	2497	8.99	2573	9.72	2646	10.4	2717	11.2						
6700	2225	6.33	2264	6.69	2301	7.06	2378	7.81	2455	8.59	2528	9.37	2602	10.1	2675	10.9								
6900	2264	6.65	2302	7.02	2339	7.39	2412	8.15	2488	8.94	2561	9.74	2631	10.6	2704	11.3								
7100	2302	6.97	2340	7.35	2377	7.74	2449	8.51	2521	9.31	2594	10.1	2663	11.0	2733	11.8								
7300	2343	7.32	2379	7.70	2415	8.09	2486	8.89	2555	9.69	2627	10.5	2696	11.4										
7500	2386	7.88	2418	8.06	2454	8.46	2524	9.27	2591	10.0	2660	10.9	2729	11.8										
7700	2429	8.06	2460	8.45	2493	8.85	2562	9.67	2629	10.5	2694	11.4												

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 1915
PLG Class II	Maximum rpm 2498

Motor on Frame Limit	254T ODP 254T TEFC
Minimum Motor Size	½ [hp]
Wheel Diameter	20.00 [in.] 508 [mm]
Peak Power	(rpm / 1027) ³ [hp] (rpm / 1133) ³ [kW]
Tip Speed	rpm x 5.24 [ft/min] rpm x 0.0266 [m/s]
Wheel Outlet Velocity	(cfm) / 2.30 [ft/min] (m ³ /s) / 1.36 [m/s]
% Wide Open Volume (% WOV)	(cfm) / (rpm x 0.0496) (m ³ /hr) / (rpm x 0.0843)

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1800	515	0.13	651	0.23	761	0.34	861	0.47																
2050	547	0.15	675	0.27	782	0.39	876	0.52	964	0.66														
2300	582	0.18	702	0.31	806	0.44	897	0.59	980	0.73	1059	0.89	1135	1.05										
2550	620	0.21	729	0.36	831	0.50	920	0.65	1001	0.81	1076	0.97	1147	1.14	1218	1.32								
2800	660	0.25	761	0.41	857	0.57	945	0.73	1024	0.90	1097	1.07	1166	1.25	1232	1.43	1296	1.62	1359	1.81				
3050	702	0.30	794	0.46	885	0.63	971	0.81	1049	0.99	1120	1.17	1187	1.36	1250	1.55	1312	1.75	1371	1.95	1431	2.16	1488	2.37
3300	745	0.35	830	0.52	915	0.71	997	0.89	1074	1.08	1145	1.28	1210	1.48	1273	1.68	1332	1.89	1390	2.10	1446	2.32	1500	2.54
3550	790	0.41	867	0.59	947	0.78	1025	0.99	1100	1.19	1170	1.39	1235	1.60	1296	1.82	1354	2.04	1410	2.26	1464	2.48	1517	2.71
3800	835	0.48	908	0.67	982	0.87	1056	1.08	1127	1.30	1195	1.52	1260	1.74	1321	1.96	1378	2.19	1433	2.43	1486	2.66	1537	2.90
4050	881	0.56	949	0.75	1018	0.96	1087	1.18	1156	1.42	1222	1.65	1285	1.88	1346	2.12	1403	2.36	1457	2.60	1509	2.85	1559	3.10
4300	927	0.64	991	0.84	1055	1.06	1121	1.29	1187	1.54	1250	1.79	1312	2.03	1371	2.28	1428	2.53	1482	2.78	1533	3.04	1583	3.30
4550	973	0.73	1033	0.95	1095	1.17	1157	1.41	1219	1.67	1280	1.93	1339	2.19	1398	2.45	1453	2.71	1507	2.97	1558	3.24	1607	3.50
4800	1021	0.84	1078	1.06	1136	1.30	1194	1.54	1253	1.80	1311	2.08	1368	2.36	1425	2.63	1480	2.90	1532	3.17	1583	3.45	1632	3.74
5050	1069	0.95	1123	1.18	1177	1.43	1231	1.68	1288	1.95	1343	2.23	1400	2.52	1453	2.82	1507	3.10	1559	3.39	1609	3.68	1657	3.97
5300	1117	1.08	1168	1.32	1219	1.57	1272	1.84	1325	2.11	1378	2.40	1431	2.70	1484	3.00	1534	3.31	1586	3.61	1635	3.90	1683	4.22
5550	1165	1.21	1213	1.46	1262	1.72	1313	2.00	1361	2.28	1414	2.58	1464	2.89	1515	3.20	1565	3.52	1613	3.85	1662	4.16	1709	4.47
5800	1214	1.36	1259	1.62	1306	1.89	1354	2.18	1401	2.47	1450	2.77	1499	3.09	1547	3.41	1596	3.74	1643	4.08	1690	4.42	1737	4.74
6050	1262	1.53	1305	1.79	1351	2.07	1396	2.36	1442	2.67	1487	2.89	1535	3.30	1581	3.63	1628	3.97	1675	4.32	1719	4.67	1764	5.02
6300	1311	1.70	1351	1.97	1396	2.26	1438	2.56	1483	2.88	1526	3.19	1572	3.53	1617	3.87	1661	4.21	1706	4.57	1751	4.94	1793	5.30
6550	1360	1.89	1398	2.16	1441	2.47	1482	2.78	1525	3.10	1567	3.43	1608	3.76	1653	4.12	1696	4.47	1738	4.84	1782	5.21	1825	5.59
6800	1409	2.09	1445	2.38	1486	2.69	1526	3.01	1567	3.34	1608	3.68	1648	4.02	1690	4.38	1732	4.74	1773	5.12	1814	5.50	1856	5.89
7050	1458	2.31	1493	2.60	1532	2.92	1571	3.25	1609	3.59	1650	3.94	1689	4.29	1727	4.65	1769	5.03	1809	5.41	1848	5.80	1888	6.20
7300	1508	2.54	1542	2.85	1578	3.17	1616	3.51	1653	3.86	1691	4.21	1730	4.58	1767	4.95	1805	5.33	1845	5.72	1884	6.12	1921	6.52
7550	1557	2.79	1590	3.10	1624	3.43	1661	3.78	1697	4.14	1733	4.51	1771	4.88	1807	5.26	1843	5.65	1882	6.05	1920	6.45	1957	6.87
7800	1606	3.06	1638	3.38	1671	3.71	1707	4.07	1742	4.44	1775	4.82	1812	5.20	1848	5.59	1883	5.98	1918	6.39	1956	6.80	1993	7.23

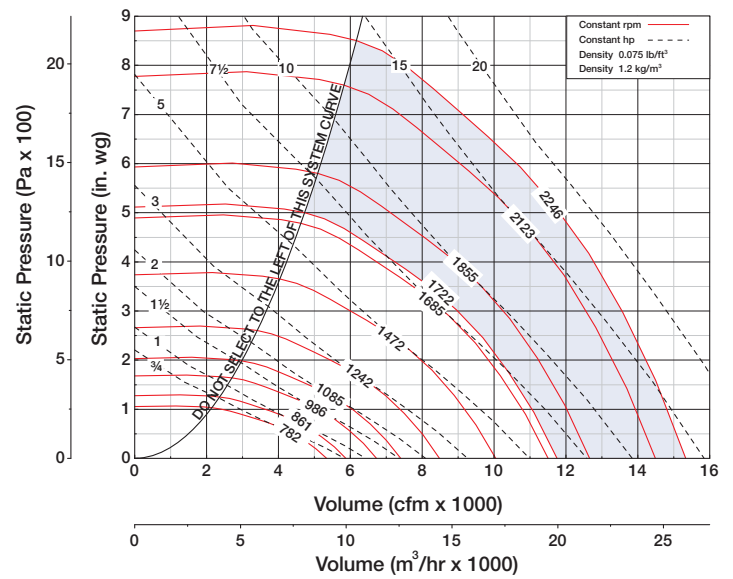
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3300	1500	2.54	1555	2.76	1607	2.99																		
3550	1517	2.71	1569	2.95	1620	3.19	1720	3.68																
3800	1537	2.90	1587	3.14	1636	3.39	1732	3.90	1826	4.42														
4050	1559	3.10	1608	3.35	1655	3.60	1749	4.13	1838	4.67	1926	5.23	2011	5.80										
4300	1583	3.30	1631	3.57	1677	3.83	1767	4.37	1855	4.93	1939	5.50	2023	6.09	2104	6.69								
4550	1607	3.51	1655	3.79	1700	4.07	1789	4.63	1874	5.20	1957	5.80	2036	6.40	2116	7.02	2193	7.65	2268	8.29				
4800	1632	3.74	1679	4.02	1725	4.31	1812	4.90	1895	5.49	1975	6.10	2054	6.72	2130	7.36	2205	8.01	2280	8.67	2352	9.34		
5050	1657	3.97	1704	4.27	1750	4.57	1836	5.18	1918	5.80	1997	6.42	2073	7.06	2148	7.71	2221	8.38	2292	9.06	2364	9.75	2433	10.4
5300	1683	4.22	1729	4.52	1775	4.83	1861	5.46	1942	6.11	2020	6.76	2095	7.41	2167	8.08	2239	8.77	2309	9.46	2376	10.2	2445	10.8
5550	1709	4.47	1755	4.79	1800	5.10	1885	5.76	1966	6.43	2043	7.10	2118	7.78	2189	8.47	2258	9.16	2327	9.88	2395	10.6	2460	11.3
5800	1737	4.74	1782	5.07	1825	5.40	1911	6.07	1991	6.76	2068	7.46	2141	8.16	2212	8.87	2281	9.59	2347	10.3	2413	11.1	2478	11.8
6050	1764	5.02	1809	5.36	1852	5.70	1936	6.40	2016	7.00	2092	7.82	2165	8.55	2235	9.29	2303	10.0	2369	10.8	2433	11.5	2497	12.3
6300	1793	5.30	1836	5.67	1880	6.02	1962	6.73	2041	7.46	2117	8.20	2190	8.95	2260	9.71	2327	10.5	2392	11.3	2456	12.0		
6550	1825	5.59	1866	5.97	1907	6.35	1989	7.09	2067	7.83	2143	8.59	2215	9.36	2285	10.1	2351	10.9	2416	11.7	2479	12.5		
6800	1856	5.89	1897	6.28	1937	6.68	2016	7.45	2094	8.22	2168	9.00	2240	9.79	2309	10.6	2376	11.4	2440	12.2				
7050	1888	6.20	1929	6.60	1968	7.01	2044	7.83	2121	8.62	2194	9.42	2266	10.2	2335	11.1	2401	11.9	2465	12.7				
7300	1921	6.52	1960	6.93	1999	7.35	2074	8.20	2148	9.04	2221	9.86	2291	10.7	2360	11.5	2426	12.4	2490	13.3				
7550	1957	6.87	1993	7.28	2031	7.71	2105	8.58	2176	9.47	2249	10.3	2318	11.2	2385	12.0	2451	12.9						
7800	1993	7.23	2028	7.65	2063	8.09	2137	8.98	2207	9.88	2276	10.8	2345	11.7	2412	12.6	2477	13.4						
8050	2029	7.60	2064	8.04	2099	8.48	2169	9.39	2238	10.3	2305	11.3	2373	12.2	2439	13.1								
8300	2065	8.00	2100	8.44	2134	8.90	2200	9.81	2270	10.8	2336	11.7	2400	12.7	2467	13.6								
8550	2102	8.40	2137	8.86	2170	9.32	2236	10.3	2302	11.2	2367	12.2	2431	13.2	2494	14.2								
8800	2141	8.84	2173	9.30	2207	9.77	2271	10.7	2334	11.7	2399	12.7	2462	13.7										
9050	2182	9.29	2211	9.76	2243	10.2	2307	11.2	2369	12.2	2431	13.2	2493	14.3										
9300	2222	9.77	2251	10.2	2280	10.7	2343	11.7	2404	12.7	2463	13.8												

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 1722
PLG Class II	Maximum rpm 2246

Motor on Frame Limit	256T ODP 254T TEFC
Minimum Motor Size	½ [hp]
Wheel Diameter	22.25 [in.] 516 [mm]
Peak Power	(rpm / 860) ³ [hp] (rpm / 948) ³ [kW]
Tip Speed	rpm x 5.83 [ft/min] rpm x 0.0296 [m/s]
Wheel Outlet Velocity	(cfm) / 2.85 [ft/min] (m³/s) / 1.68 [m/s]
% Wide Open Volume (% WOV)	(cfm) / (rpm x 0.0683) (m³/hr) / (rpm x 0.116)

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2300	470	0.16	590	0.30	688	0.44	777	0.59																
2600	498	0.19	612	0.34	707	0.50	791	0.66	869	0.83	943	1.02												
2900	529	0.23	635	0.39	729	0.56	810	0.74	884	0.92	954	1.00	1022	1.32										
3200	562	0.27	660	0.45	751	0.63	831	0.82	903	1.02	970	1.22	1034	1.43	1096	1.65	1156	1.87						
3500	598	0.32	687	0.51	774	0.71	852	0.91	923	1.12	988	1.34	1050	1.56	1109	1.79	1167	2.02						
3800	634	0.38	717	0.57	798	0.79	874	1.01	945	1.23	1009	1.46	1069	1.69	1125	1.93	1181	2.18	1234	2.43	1287	2.69	1339	2.95
4100	672	0.44	748	0.65	825	0.88	898	1.11	967	1.35	1030	1.59	1089	1.84	1145	2.09	1198	2.34	1250	2.61	1300	2.88	1349	3.15
4400	711	0.51	781	0.73	852	0.97	922	1.23	989	1.47	1052	1.73	1111	1.99	1166	2.26	1218	2.52	1268	2.80	1317	3.07	1365	3.36
4700	751	0.59	816	0.82	883	1.07	949	1.34	1013	1.61	1074	1.88	1133	2.15	1187	2.43	1239	2.70	1288	3.00	1336	3.29	1381	3.58
5000	790	0.68	852	0.92	914	1.18	977	1.46	1038	1.75	1098	2.03	1155	2.32	1209	2.61	1260	2.91	1309	3.21	1356	3.52	1401	3.82
5300	830	0.78	888	1.04	946	1.30	1006	1.59	1065	1.89	1122	2.20	1178	2.50	1231	2.80	1282	3.11	1331	3.43	1377	3.75	1422	4.07
5600	871	0.89	925	1.16	981	1.44	1037	1.73	1093	2.05	1148	2.37	1202	2.69	1254	3.00	1304	3.33	1353	3.66	1399	3.99	1443	4.32
5900	912	1.02	964	1.29	1016	1.58	1069	1.89	1122	2.21	1175	2.54	1227	2.89	1278	3.22	1327	3.56	1375	3.90	1420	4.24	1465	4.59
6200	954	1.15	1003	1.44	1052	1.74	1101	2.05	1153	2.39	1203	2.73	1254	3.09	1302	3.45	1351	3.80	1397	4.15	1443	4.51	1486	4.87
6500	996	1.30	1042	1.60	1089	1.91	1136	2.23	1185	2.58	1233	2.93	1281	3.30	1329	3.67	1375	4.05	1421	4.42	1465	4.78	1509	5.16
6800	1038	1.46	1082	1.77	1126	2.09	1172	2.43	1217	2.78	1264	3.14	1309	3.52	1356	3.91	1401	4.30	1445	4.69	1489	5.08	1531	5.46
7100	1080	1.64	1122	1.95	1164	2.29	1208	2.64	1251	2.99	1296	3.37	1340	3.76	1384	4.15	1428	4.56	1470	4.98	1513	5.38	1555	5.78
7400	1123	1.83	1162	2.15	1203	2.50	1244	2.86	1286	3.23	1328	3.61	1371	4.01	1413	4.41	1456	4.83	1498	5.26	1538	5.70	1579	6.12
7700	1165	2.04	1202	2.36	1242	2.72	1281	3.09	1322	3.48	1361	3.87	1403	4.28	1444	4.69	1483	5.12	1525	5.56	1565	6.00	1604	6.46
8000	1208	2.26	1242	2.59	1282	2.97	1319	3.35	1358	3.74	1397	4.14	1435	4.56	1475	4.99	1514	5.42	1553	5.87	1593	6.33	1631	6.79
8300	1251	2.49	1284	2.84	1321	3.22	1357	3.62	1395	4.02	1432	4.43	1468	4.86	1507	5.30	1545	5.74	1582	6.20	1620	6.67	1658	7.14
8600	1294	2.75	1325	3.11	1361	3.50	1396	3.90	1431	4.31	1468	4.74	1504	5.18	1539	5.62	1577	6.08	1613	6.55	1649	7.02	1686	7.51
8900	1336	3.02	1367	3.39	1401	3.79	1436	4.20	1469	4.63	1504	5.07	1539	5.51	1573	5.96	1609	6.43	1645	6.91	1680	7.40	1714	7.89
9200	1379	3.31	1409	3.69	1441	4.09	1475	4.52	1507	4.96	1541	5.41	1575	5.87	1608	6.33	1641	6.80	1676	7.30	1711	7.79	1745	8.30
9500	1422	3.62	1452	4.01	1481	4.42	1514	4.86	1546	5.31	1577	5.77	1611	6.24	1644	6.71	1675	7.20	1708	7.70	1743	8.21	1776	8.72

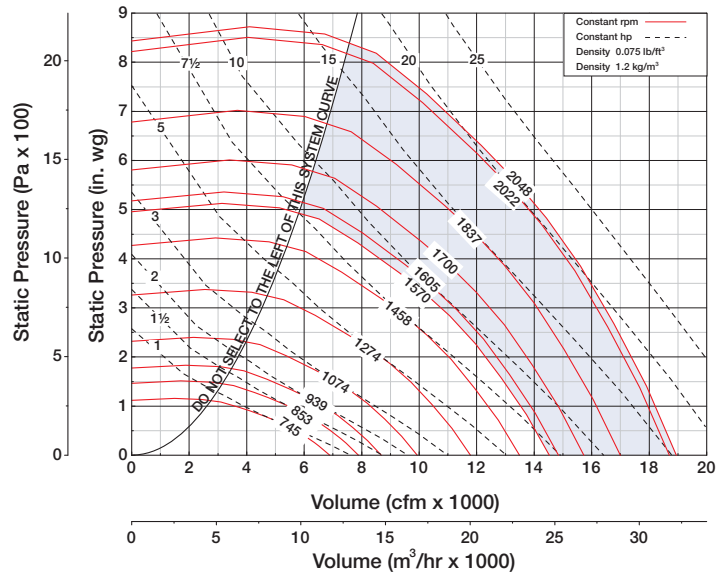
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4100	1349	3.05	1398	3.43	1446	3.72																		
4400	1365	3.36	1411	3.65	1456	3.95	1546	4.56																
4700	1381	3.58	1427	3.88	1471	4.90	1557	4.82	1641	5.47														
5000	1401	3.82	1445	4.13	1487	4.45	1571	5.10	1652	5.77	1731	6.46	1807	7.16										
5300	1422	4.07	1465	4.39	1507	4.72	1588	5.39	1666	6.08	1742	6.79	1818	7.52	1890	8.26								
5600	1443	4.32	1485	4.66	1527	5.01	1606	5.70	1683	6.40	1757	7.13	1829	7.88	1901	8.65	1971	9.43	2038	10.2				
5900	1465	4.59	1507	4.94	1548	5.30	1626	6.02	1701	6.75	1773	7.50	1844	8.27	1912	9.05	1981	9.85	2048	10.7				
6200	1486	4.87	1529	5.23	1569	5.60	1647	6.36	1721	7.11	1792	7.88	1861	8.67	1929	9.47	1994	10.3	2059	11.1	2123	12.0	2186	12.9
6500	1509	5.16	1551	5.54	1591	5.92	1669	6.70	1742	7.49	1812	8.28	1879	9.09	1945	9.91	2010	10.8	2072	11.6	2134	12.5	2196	13.4
6800	1531	5.46	1573	5.85	1613	6.25	1690	7.05	1763	7.87	1832	8.70	1899	9.53	1963	10.4	2026	11.2	2089	12.1	2149	13.0	2208	13.9
7100	1555	5.78	1596	6.18	1635	6.59	1712	7.42	1785	8.26	1854	9.12	1919	9.99	1983	10.9	2045	11.7	2105	12.6	2165	13.5	2224	14.5
7400	1579	6.12	1619	6.53	1658	6.95	1734	8.20	1806	8.67	1875	9.55	1941	10.5	2004	11.4	2065	12.3	2124	13.2	2182	14.1	2240	15.1
7700	1604	6.46	1643	6.89	1682	7.33	1756	8.80	1828	9.09	1897	10.0	1962	10.9	2025	11.9	2085	12.8	2144	13.7	2202	14.7		
8000	1631	6.79	1668	7.26	1706	7.72	1780	8.62	1850	9.53	1919	10.5	1984	11.4	2046	12.4	2107	13.3	2165	14.3	2222	15.3		
8300	1658	7.14	1695	7.63	1731	8.12	1804	9.05	1873	9.99	1941	11.0	2006	11.9	2068	12.9	2128	13.9	2186	14.9	2242	15.9		
8600	1686	7.51	1722	8.01	1758	8.51	1828	9.50	1897	10.5	1963	11.5	2028	12.4	2090	13.5	2150	14.5	2207	15.5				
8900	1714	7.89	1750	8.40	1785	8.91	1853	9.95	1921	11.0	1987	12.0	2050	13.0	2112	14.0	2171	15.0	2229	16.1				
9200	1745	8.30	1778	8.81	1813	9.34	1880	10.4	1945	11.5	2010	12.5	2073	13.6	2134	14.6	2193	15.7						
9500	1776	8.72	1808	9.24	1841	9.78	1907	10.9	1971	12.0	2034	13.1	2097	14.1	2157	15.2	2215	16.3						
9800	1807	9.16	1839	9.70	1870	10.2	1935	11.4	1998	12.5	2058	13.6	2120	14.7	2180	15.8	2238	17.0						
10100	1839	9.62	1870	10.2	1901	10.7	1962	11.9	2025	13.0	2085	14.2	2144	15.4	2204	16.5								
10400	1871	10.1	1902	10.7	1933	11.2	1991	12.4	2053	13.6	2112	14.8	2169	16.0	2228	17.2								
10700	1903	10.6	1934	11.2	1964	11.8	2022	13.0	2080	14.1	2139	15.3	2196	16.6										
11000	1938	11.0	1966	11.7	1996	12.3	2054	13.5	2109	14.7	2167	16.0	2224	17.2										
11300	1973	11.7	2000	12.3	2028	12.9	2085	14.1	2140	15.3	2195	16.6												

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 1570
PLG Class II	Maximum rpm 2048

Motor on Frame Limit	256T ODP 254T TEFC
Minimum Motor Size	½ [hp]
Wheel Diameter	24.50 [in.] 622 [mm]
Peak Power	$(\text{rpm} / 745)^3$ [hp] $(\text{rpm} / 821)^3$ [kW]
Tip Speed	$\text{rpm} \times 6.41$ [ft/min] $\text{rpm} \times 0.0326$ [m/s]
Wheel Outlet Velocity	$(\text{cfm}) / 3.46$ [ft/min] $(\text{m}^3/\text{s}) / 2.04$ [m/s]
% Wide Open Volume (% WOV)	$(\text{cfm}) / (\text{rpm} \times 0.0925)$ $(\text{m}^3/\text{hr}) / (\text{rpm} \times 0.157)$

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	446	0.21	552	0.39	640	0.57	717	0.76	793	0.98														
3350	471	0.25	572	0.44	658	0.64	734	0.85	802	1.07	870	1.30												
3700	499	0.30	594	0.50	678	0.72	751	0.94	818	1.17	879	1.41	941	1.67	1000	1.94								
4050	528	0.35	617	0.57	698	0.80	770	1.04	835	1.29	896	1.54	953	1.80	1009	2.08	1064	2.37						
4400	559	0.40	642	0.64	719	0.89	790	1.14	854	1.41	913	1.68	969	1.96	1022	2.24	1072	2.53	1125	2.84	1174	3.16		
4750	591	0.47	667	0.71	741	0.98	810	1.26	873	1.54	931	1.82	986	2.12	1038	2.41	1088	2.72	1134	3.02	1183	3.35	1230	3.70
5100	624	0.54	695	0.80	765	1.08	832	1.37	894	1.67	951	1.97	1004	2.28	1056	2.60	1104	2.91	1151	3.24	1195	3.57	1239	3.91
5450	657	0.62	724	0.89	790	1.19	854	1.50	914	1.81	971	2.13	1024	2.46	1073	2.79	1122	3.12	1168	3.46	1212	3.81	1254	4.15
5800	691	0.71	753	1.00	816	1.31	877	1.63	936	1.96	991	2.30	1044	2.64	1093	2.99	1140	3.34	1185	3.70	1229	4.05	1271	4.42
6150	725	0.80	785	1.11	844	1.43	902	1.77	958	2.12	1012	2.47	1064	2.83	1113	3.19	1159	3.56	1203	3.94	1246	4.31	1288	4.69
6500	759	0.91	816	1.23	872	1.57	927	1.92	982	2.29	1035	2.66	1085	3.03	1133	3.41	1179	3.79	1223	4.18	1265	4.58	1305	4.98
6850	791	1.03	848	1.37	901	1.72	954	2.08	1007	2.46	1057	2.85	1107	3.24	1153	3.64	1199	4.04	1243	4.44	1284	4.85	1324	5.27
7200	829	1.16	881	1.51	931	1.88	982	2.26	1032	2.65	1081	3.05	1129	3.46	1175	3.87	1220	4.29	1263	4.71	1304	5.14	1344	5.57
7550	861	1.30	914	1.67	963	2.05	1011	2.44	1059	2.85	1106	3.26	1152	3.69	1197	4.12	1241	4.56	1283	5.00	1324	5.44	1364	5.88
7900	900	1.46	948	1.84	994	2.23	1039	2.64	1086	3.06	1131	3.49	1177	3.93	1220	4.38	1263	4.83	1305	5.29	1345	5.75	1384	6.21
8250	936	1.63	981	2.02	1026	2.43	1070	2.85	1114	3.28	1158	3.73	1202	4.18	1244	4.65	1285	5.12	1327	5.59	1366	6.07	1405	6.55
8600	972	1.81	1015	2.22	1058	2.64	1101	3.08	1143	3.52	1186	3.98	1227	4.45	1269	4.93	1309	5.41	1349	5.91	1388	6.40	1426	6.89
8950	1008	2.01	1050	2.43	1091	2.86	1132	3.32	1172	3.78	1214	4.25	1254	4.73	1294	5.22	1334	5.72	1372	6.23	1410	6.74	1448	7.25
9300	1045	2.22	1084	2.65	1124	3.10	1164	3.57	1203	4.05	1242	4.53	1282	5.03	1319	5.53	1359	6.05	1397	6.57	1433	7.10	1470	7.63
9650	1081	2.45	1119	2.89	1158	3.36	1196	3.84	1234	4.33	1270	4.83	1310	5.34	1347	5.86	1384	6.38	1421	6.92	1457	7.47	1492	8.02
10000	1118	2.69	1154	3.15	1192	3.63	1229	4.12	1266	4.63	1301	5.14	1338	5.67	1375	6.20	1410	6.74	1446	7.29	1482	7.85	1517	8.42
10350	1154	2.95	1189	3.42	1226	3.92	1261	4.42	1297	4.94	1332	5.47	1366	6.01	1403	6.56	1438	7.11	1472	7.67	1507	8.25	1541	8.83
10700	1191	3.23	1224	3.71	1260	4.22	1295	4.74	1329	5.28	1363	5.82	1396	6.37	1431	6.93	1465	7.50	1499	8.08	1532	8.66	1566	9.26
11050	1228	3.53	1260	4.02	1294	4.54	1328	5.08	1362	5.63	1395	6.19	1427	6.75	1458	7.33	1494	7.91	1526	8.50	1558	9.10	1591	9.71
11400	1265	3.84	1296	4.34	1329	4.88	1362	5.43	1394	6.00	1427	6.57	1458	7.15	1489	7.74	1522	8.34	1554	8.94	1586	9.55	1617	10.2

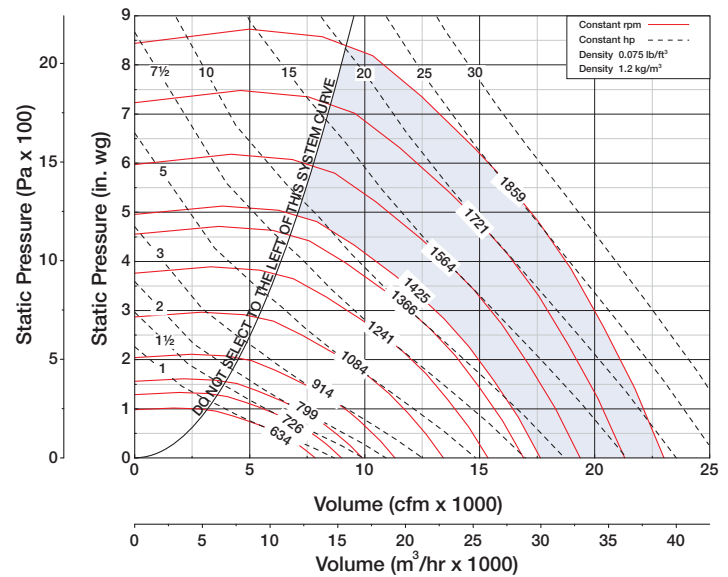
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5450	1254	4.15	1295	4.51	1337	4.88	1420	5.66																
5800	1271	4.42	1311	4.79	1351	5.16	1428	5.94	1506	6.77														
6150	1288	4.69	1328	5.08	1367	5.47	1441	6.26	1515	7.09	1589	7.97	1659	8.87										
6500	1305	4.98	1345	5.38	1384	5.78	1458	6.60	1528	7.44	1597	8.32	1667	9.25	1735	10.2								
6850	1324	5.27	1363	5.69	1401	6.11	1475	6.96	1544	7.83	1610	8.71	1676	9.64	1743	10.6	1807	11.6						
7200	1344	5.57	1382	6.00	1419	6.45	1492	7.33	1561	8.23	1627	9.14	1690	10.1	1752	11.0	1816	12.1	1878	13.1	1938	14.2		
7550	1364	5.88	1402	6.33	1439	6.79	1509	7.72	1578	8.64	1644	9.59	1706	10.6	1766	11.5	1824	12.5	1886	13.6	1946	14.7	2004	15.8
7900	1384	6.21	1422	6.67	1459	7.14	1529	8.10	1596	9.07	1661	10.1	1723	11.0	1783	12.0	1840	13.1	1895	14.1	1955	15.2	2012	16.3
8250	1405	6.55	1442	7.03	1479	7.15	1548	8.50	1614	9.51	1678	10.5	1740	11.5	1800	12.6	1857	13.6	1912	14.7	1965	15.8	2021	16.9
8600	1426	6.89	1463	7.40	1499	7.90	1568	8.91	1634	9.95	1696	11.0	1757	12.1	1817	13.1	1874	14.2	1929	15.3	1982	16.4	2034	17.5
8950	1448	7.25	1484	7.77	1519	8.29	1588	9.34	1654	10.4	1716	11.5	1775	12.6	1834	13.7	1891	14.8	1946	15.9	1999	17.0		
9300	1470	7.63	1506	8.60	1541	8.70	1609	9.78	1674	10.9	1736	12.0	1795	13.1	1851	14.7	1908	15.4	1963	16.6	2016	17.7		
9650	1492	8.02	1528	8.57	1563	9.12	1629	10.2	1694	11.4	1755	12.5	1814	13.7	1871	14.8	1925	16.0	1980	17.0	2033	18.4		
10000	1517	8.42	1550	8.99	1585	9.56	1651	10.7	1714	11.9	1776	13.0	1834	14.2	1891	15.4	1945	16.7	1997	17.9				
10350	1541	8.83	1574	9.42	1607	10.0	1673	11.2	1735	12.4	1796	13.6	1854	14.8	1910	16.0	1965	17.3	2017	18.6				
10700	1566	9.26	1599	9.86	1631	10.5	1695	11.7	1757	12.9	1816	14.2	1874	15.4	1930	16.7	1984	18.0	2036	19.3				
11050	1591	9.71	1624	10.3	1656	11.0	1717	12.2	1779	13.5	1837	14.8	1895	16.0	1950	17.3	2004	18.6						
11400	1617	10.2	1649	10.8	1680	11.4	1741	12.7	1801	14.0	1859	15.3	1915	16.7	1971	18.0	2024	19.3						
11750	1644	10.7	1674	11.3	1705	12.0	1766	13.3	1823	14.6	1881	16.0	1937	17.3	1991	18.7	2045	20.1						
12100	1672	11.2	1701	11.8	1731	12.5	1790	13.8	1847	15.2	1904	16.6	1959	18.0	2012	19.4								
12450	1700	11.7	1729	12.4	1757	13.0	1815	14.4	1872	15.8	1926	17.2	1981	18.7	2034	20.1								
12800	1728	12.2	1756	12.9	1784	13.6	1840	15.0	1896	16.4	1950	17.9	2003	19.4										
13150	1756	12.8	1785	13.5	1812	14.2	1866	15.6	1921	17.1	1975	18.6	2026	20.1										
13500	1785	13.4	1813	14.1	1840	14.8	1893	16.6	1946	17.8	2000	19.9												
13850	1814	14.0	1841	14.8	1868	15.5	1921	17.0	1972	18.5	2024	20.0												

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 1425
PLG Class II	Maximum rpm 1859

Motor on Frame Limit	284T ODP 284T TEFC
Minimum Motor Size	¾ [hp]
Wheel Diameter	27.00 [in.] 686 [mm]
Peak Power	$(\text{rpm} / 634)^3$ [hp] $(\text{rpm} / 699)^3$ [kW]
Tip Speed	$\text{rpm} \times 7.07$ [ft/min] $\text{rpm} \times 0.0359$ [m/s]
Wheel Outlet Velocity	$(\text{cfm}) / 4.20$ [ft/min] $(\text{m}^3/\text{s}) / 2.47$ [m/s]
% Wide Open Volume (% WOV)	$(\text{cfm}) / (\text{rpm} \times 0.124)$ $(\text{m}^3/\text{hr}) / (\text{rpm} \times 0.210)$

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3300	387	0.23	487	0.42	569	0.63	644	0.86																
3750	410	0.27	506	0.49	585	0.72	655	0.95	721	1.21														
4200	435	0.32	525	0.56	603	0.81	671	1.07	732	1.34	792	1.62												
4650	462	0.38	546	0.64	622	0.91	688	1.19	748	1.48	804	1.77	857	2.09	910	2.42								
5100	491	0.45	569	0.72	641	1.02	706	1.32	765	1.63	820	1.94	871	2.27	919	2.60	969	2.96	1016	3.33				
5550	522	0.52	593	0.82	662	1.13	726	1.45	783	1.78	836	2.12	887	2.47	935	2.82	979	3.18	1024	3.56	1069	3.95	1112	4.36
6000	522	0.61	619	0.92	684	1.26	746	1.60	803	1.95	855	2.31	904	2.68	951	3.05	995	3.43	1037	3.81	1078	4.20	1121	4.63
6450	584	0.71	646	1.04	708	1.39	767	1.76	822	2.13	874	2.51	922	2.90	967	3.29	1012	3.69	1054	4.10	1094	4.51	1132	4.92
6900	616	0.82	674	1.17	732	1.54	789	1.92	843	2.32	893	2.72	941	3.13	986	3.54	1028	3.97	1070	4.39	1110	4.82	1148	5.26
7350	649	0.94	704	1.31	759	1.70	812	2.10	864	2.52	913	2.94	960	3.37	1005	3.81	1047	4.25	1087	4.70	1126	5.15	1165	5.61
7800	682	1.08	734	1.46	786	1.87	836	2.29	886	2.73	934	3.18	980	3.63	1024	4.08	1066	4.54	1106	5.01	1144	5.49	1181	5.97
8250	715	1.23	765	1.63	813	2.06	862	2.50	910	2.95	956	3.42	1001	3.89	1044	4.37	1085	4.85	1125	5.34	1163	5.84	1199	6.34
8700	749	1.39	796	1.82	842	2.26	889	2.72	934	3.19	979	3.68	1022	4.17	1065	4.67	1105	5.18	1144	5.69	1182	6.20	1218	6.72
9150	782	1.57	828	2.02	872	2.48	916	2.96	959	3.44	1003	3.95	1044	4.47	1086	4.99	1125	5.52	1164	6.05	1201	6.58	1237	7.12
9600	817	1.78	860	2.24	903	2.72	943	3.21	986	3.72	1027	4.24	1068	4.78	1107	5.32	1147	5.87	1184	6.43	1221	6.98	1256	7.54
10050	851	1.99	893	2.47	933	2.97	973	3.48	1013	4.01	1053	4.55	1092	5.10	1131	5.67	1168	6.24	1205	6.81	1240	7.40	1276	7.98
10500	886	2.23	926	2.72	964	3.24	1003	3.77	1040	4.32	1079	4.87	1116	5.44	1154	6.03	1191	6.62	1227	7.22	1262	7.82	1297	8.43
10950	921	2.49	957	3.00	996	3.53	1033	4.08	1069	4.65	1106	5.22	1142	5.81	1178	6.41	1215	7.02	1249	7.64	1284	8.27	1318	8.89
11400	956	2.77	992	3.29	1028	3.84	1064	4.41	1098	5.00	1133	5.59	1169	6.19	1203	6.81	1239	7.44	1273	8.08	1306	8.73	1339	9.38
11850	991	3.06	1025	3.60	1060	4.18	1095	4.76	1129	5.38	1161	5.98	1196	6.60	1230	7.23	1263	7.88	1297	8.54	1329	9.21	1361	9.88
12300	1026	3.38	1057	3.94	1093	4.53	1126	5.14	1159	5.76	1191	6.39	1223	7.03	1257	7.68	1289	8.34	1321	9.02	1353	9.70	1384	10.4
12750	1062	3.73	1092	4.30	1126	4.91	1157	5.53	1190	6.17	1221	6.82	1251	7.49	1284	8.15	1315	8.83	1346	9.52	1377	10.2	1408	10.9
13200	1097	4.10	1126	4.67	1158	5.31	1190	5.95	1220	6.61	1251	7.28	1280	7.96	1311	8.65	1342	9.35	1372	10.1	1401	10.8	1432	11.5
13650	1132	4.49	1161	5.09	1191	5.73	1222	6.40	1250	7.07	1282	7.76	1310	8.46	1338	9.17	1369	9.88	1399	10.6	1428	11.3	1456	12.1
14100	1168	4.91	1195	5.53	1225	6.18	1254	6.86	1283	7.56	1312	8.27	1341	8.98	1368	9.71	1396	10.5	1426	11.2	1454	11.9	1482	12.7

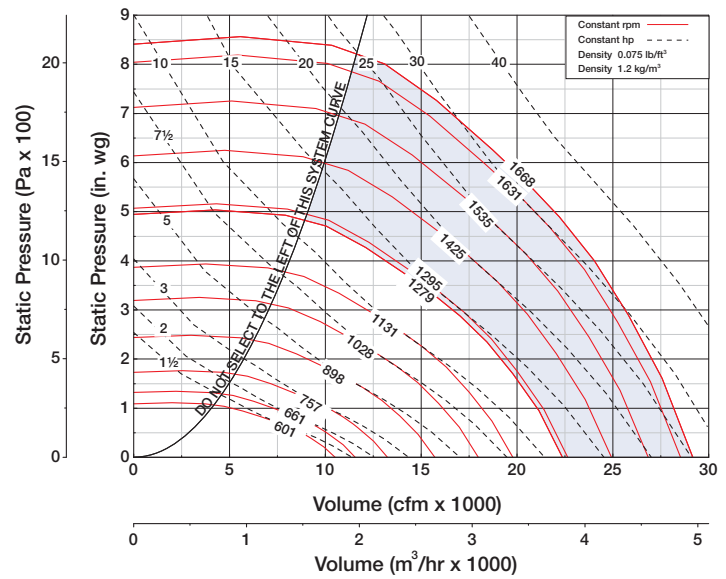
CFM	Static Pressure (in. wg)																								
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
6450	1132	4.92	1170	5.35	1210	5.81	1285	6.74																	
6900	1148	5.26	1185	5.70	1220	6.15	1293	7.10	1364	8.10															
7350	1165	5.61	1201	6.07	1237	6.53	1304	7.48	1372	8.50	1440	9.56													
7800	1181	5.97	1218	6.45	1253	6.94	1320	7.92	1383	8.94	1448	10.0	1511	11.1	1572	12.3									
8250	1199	6.34	1234	6.85	1269	7.36	1336	8.38	1399	9.43	1459	10.5	1520	11.6	1581	12.8	1639	14.0							
8700	1218	6.72	1253	7.25	1286	7.79	1352	8.86	1415	9.94	1475	11.1	1532	12.2	1589	13.4	1647	14.6	1703	15.9	1758	17.1			
9150	1237	7.12	1272	7.67	1305	8.22	1369	9.35	1432	10.5	1491	11.6	1548	12.8	1602	14.0	1655	15.2	1711	16.5	1766	17.8	1818	19.1	
9600	1256	7.54	1291	8.11	1324	8.68	1388	9.84	1448	11.0	1507	12.2	1564	13.4	1618	14.6	1670	15.9	1720	17.1	1774	18.5	1826	19.8	
10050	1276	7.98	1310	8.57	1343	9.16	1407	10.4	1466	11.6	1524	12.8	1580	14.1	1634	15.3	1686	16.6	1736	17.9	1785	19.2	1835	20.6	
10500	1297	8.43	1330	9.04	1363	9.65	1426	10.9	1485	12.2	1542	13.4	1597	14.7	1651	16.0	1703	17.3	1752	18.7	1801	20.0	1848	21.4	
10950	1318	8.89	1350	9.53	1382	10.2	1445	11.4	1504	12.7	1560	14.1	1614	15.4	1667	16.8	1719	18.1	1769	19.5	1817	20.9			
11400	1339	9.38	1371	10.0	1403	10.7	1464	12.0	1523	13.4	1579	14.7	1633	16.1	1684	17.5	1735	18.9	1785	20.3	1833	21.7			
11850	1361	9.88	1393	10.6	1424	11.2	1484	12.6	1543	14.0	1599	15.4	1652	16.8	1703	18.2	1753	19.7	1802	21.2	1850	22.6			
12300	1384	10.4	1415	11.1	1445	11.8	1505	13.2	1562	14.7	1618	16.1	1671	17.5	1722	19.0	1771	20.5	1819	22.0					
12750	1408	10.9	1438	11.7	1467	12.4	1526	13.8	1583	15.3	1637	16.8	1690	18.3	1741	19.8	1790	21.3	1838	22.9					
13200	1432	11.5	1462	12.2	1491	13.0	1548	14.5	1604	16.0	1657	17.6	1710	19.1	1761	20.6	1809	22.2	1857	23.8					
13650	1456	12.1	1486	12.8	1514	13.6	1570	15.2	1625	16.7	1678	18.3	1730	19.9	1780	21.5	1829	23.1							
14100	1482	12.7	1510	13.5	1538	14.3	1593	15.9	1646	17.5	1699	19.1	1750	20.7	1800	22.4	1848	24.0							
14550	1508	13.3	1535	14.1	1562	14.9	1617	16.6	1669	18.2	1720	19.9	1771	21.6	1820	23.2									
15000	1535	14.0	1561	14.8	1587	15.6	1641	17.3	1692	19.0	1742	20.7	1792	22.4	1841	24.2									
15450	1562	14.7	1588	15.5	1614	16.4	1665	18.1	1716	19.8	1765	21.6	1813	23.3											
15900	1589	15.4	1615	16.3	1640	17.1	1689	18.9	1740	20.6	1788	22.4	1835	24.2											
16350	1617	16.2	1642	17.1	1667	17.9	1715	19.7	1764	21.5	1812	23.3	1858	25.2											
16800	1645	17.0	1669	17.9	1694	18.8	1742	20.5	1788	22.4	1836	24.2													
17250	1674	17.8	1697	18.7	1721	19.6	1768	21.4	1814	23.3															

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 1279
PLG Class II	Maximum rpm 1668

Motor on Frame Limit	286T ODP 286T TEFC
Minimum Motor Size	¾ [hp]
Wheel Diameter	30.00 [in.] 762 [mm]
Peak Power	$(\text{rpm} / 524)^3$ [hp] $(\text{rpm} / 578)^3$ [kW]
Tip Speed	$\text{rpm} \times 7.85$ [ft/min] $\text{rpm} \times 0.0399$ [m/s]
Wheel Outlet Velocity	$(\text{cfm}) / 5.18$ [ft/min] $(\text{m}^3/\text{s}) / 3.05$ [m/s]
% Wide Open Volume (% WOV)	$(\text{cfm}) / (\text{rpm} \times 0.175)$ $(\text{m}^3/\text{hr}) / (\text{rpm} \times 0.297)$

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4500	358	0.32	448	0.58	522	0.85	588	1.04																
5000	376	0.37	463	0.66	534	0.95	598	1.26	657	1.59	713	1.95												
5500	396	0.42	478	0.74	548	1.06	610	1.39	667	1.74	720	2.10	772	2.49										
6000	417	0.49	494	0.83	563	1.18	623	1.53	679	1.90	730	2.27	778	2.67	827	3.09								
6500	439	0.56	512	0.93	578	1.30	637	1.68	691	2.07	742	2.46	789	2.87	833	3.29	879	3.75	922	4.22				
7000	463	0.65	530	1.03	594	1.43	652	1.83	705	2.24	754	2.67	801	3.10	844	3.53	885	3.98	928	4.47	969	4.97		
7500	486	0.74	549	1.14	610	1.47	667	2.00	719	2.43	767	2.88	813	3.33	856	3.79	897	4.26	936	4.74	975	5.24	1014	5.77
8000	511	0.85	569	1.25	628	1.71	683	2.18	734	2.63	782	3.10	826	3.57	868	4.06	909	4.55	948	5.05	985	5.56	1021	6.07
8500	536	0.96	590	1.38	646	1.86	699	2.36	750	2.84	797	3.33	840	3.83	881	4.34	921	4.85	960	5.37	997	5.90	1032	6.44
9000	561	1.10	613	1.53	665	2.02	717	2.55	766	3.07	812	3.58	855	4.10	896	4.63	934	5.16	972	5.71	1009	6.26	1044	6.82
9500	587	1.24	636	1.69	685	2.20	734	2.74	782	3.30	827	3.84	870	4.38	910	4.93	949	5.49	985	6.06	1021	6.63	1056	7.21
10000	612	1.40	659	1.86	706	2.38	753	2.95	799	3.53	843	4.11	885	4.68	925	5.25	963	5.83	1000	6.42	1034	7.02	1068	7.62
10500	638	1.57	683	2.05	726	2.58	772	3.16	817	3.77	859	4.39	901	4.98	940	5.59	978	6.19	1014	6.80	1049	7.42	1082	8.04
11000	665	1.76	707	2.25	749	2.80	792	3.40	835	4.02	877	4.67	917	5.31	956	5.93	993	6.56	1029	7.19	1064	7.83	1096	8.48
11500	692	1.97	732	2.48	772	3.04	813	3.64	854	4.29	895	4.96	934	5.64	972	6.29	1009	6.94	1044	7.60	1078	8.26	1111	8.93
12000	719	2.20	757	2.72	796	3.29	833	3.90	874	4.57	913	5.26	951	5.96	988	6.67	1025	7.34	1059	8.03	1093	8.71	1126	9.41
12500	747	2.45	782	2.97	819	2.56	856	4.19	894	4.87	932	5.57	969	6.30	1005	7.04	1041	7.76	1075	8.47	1108	9.18	1141	9.90
13000	774	2.71	808	3.25	843	3.84	879	4.50	914	5.18	951	5.91	987	6.65	1023	7.41	1057	8.19	1091	8.92	1124	9.66	1156	10.4
13500	802	3.00	833	3.55	867	4.16	902	4.82	935	5.51	972	6.26	1006	7.02	1041	7.80	1075	8.60	1108	9.40	1140	10.2	1172	10.9
14000	829	3.30	859	3.86	892	4.49	925	5.16	958	5.88	992	6.63	1026	7.41	1059	8.21	1093	9.03	1125	9.86	1157	10.7	1188	11.5
14500	857	3.63	885	4.20	917	4.85	949	5.53	981	6.26	1012	7.01	1046	7.82	1078	8.64	1111	9.48	1143	10.3	1173	11.2	1204	12.0
15000	884	3.98	911	4.55	942	5.22	973	5.91	1004	6.66	1034	7.43	1066	8.25	1098	9.09	1129	9.94	1161	10.8	1191	11.7	1221	12.6
15500	912	4.35	937	4.94	968	5.62	997	6.32	1027	7.08	1057	7.87	1087	8.69	1118	9.55	1148	10.4	1179	11.3	1209	12.2	1238	13.1
16000	940	4.75	964	5.35	993	6.04	1022	6.76	1051	7.53	1080	8.34	1108	9.16	1139	10.0	1168	10.9	1197	11.9	1227	12.8	1256	13.7
16500	968	5.17	991	5.79	1019	6.48	1047	7.23	1075	8.00	1103	8.82	1131	9.67	1159	10.6	1189	11.5	1217	12.4	1245	13.3	1274	14.3

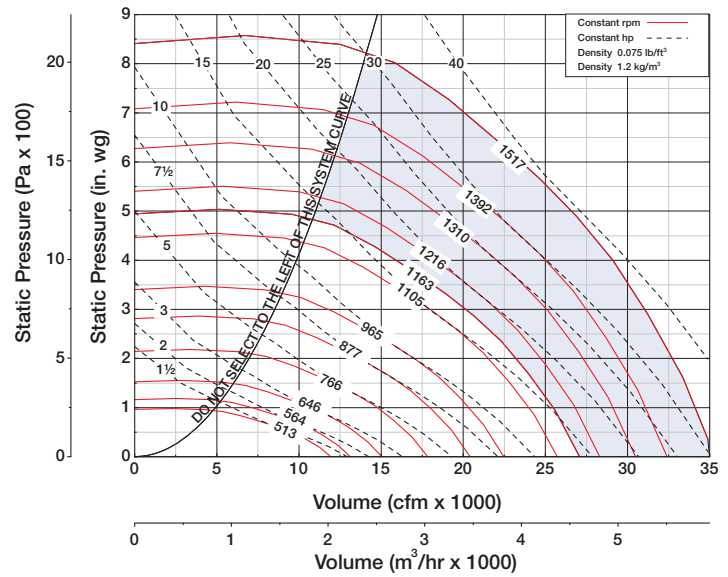
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8500	1032	6.44	1066	6.98	1101	7.55	1169	8.76																
9000	1044	6.82	1078	7.38	1111	7.96	1176	9.16	1240	10.4														
9500	1056	7.21	1090	7.80	1123	8.39	1185	9.60	1246	10.9	1307	12.2												
10000	1068	7.62	1102	8.23	1134	8.85	1196	10.1	1255	11.4	1314	12.7	1371	14.2	1427	15.6								
10500	1082	8.04	1114	8.68	1147	9.32	1208	10.6	1266	11.9	1322	13.3	1378	14.7	1433	16.2	1486	17.7						
11000	1096	8.48	1128	9.14	1159	9.80	1220	11.1	1278	12.5	1333	13.9	1386	15.3	1440	16.8	1493	18.4	1544	20.0				
11500	1111	8.93	1143	9.61	1173	10.3	1232	11.7	1290	13.1	1345	14.5	1398	16.0	1448	17.4	1499	19.0	1550	20.6				
12000	1126	9.41	1157	10.1	1188	10.8	1246	12.2	1302	13.7	1357	15.2	1409	16.7	1459	18.8	1507	19.7	1556	21.3	1606	23.0	1653	24.8
12500	1141	9.90	1172	10.6	1202	11.3	1260	12.8	1315	14.3	1369	15.8	1421	17.4	1471	18.9	1519	20.5	1565	22.1	1612	23.8	1660	25.5
13000	1156	10.4	1187	11.2	1217	11.9	1275	13.4	1329	15.0	1381	16.5	1433	18.1	1483	19.7	1531	21.3	1577	23.0	1622	24.6	1666	26.3
13500	1172	10.9	1202	11.7	1232	12.5	1290	14.0	1344	15.6	1395	17.2	1445	18.9	1495	20.5	1543	22.2	1589	23.9	1634	25.6		
14000	1188	11.5	1218	12.3	1247	13.6	1304	14.7	1358	16.3	1410	18.0	1459	19.6	1507	21.3	1555	23.0	1601	24.8	1645	26.5		
14500	1204	12.0	1234	12.8	1263	13.7	1319	15.3	1373	17.0	1424	18.7	1473	20.4	1520	22.2	1567	23.9	1613	25.7	1657	27.5		
15000	1221	12.6	1250	13.4	1279	14.3	1334	16.0	1388	17.7	1439	19.5	1488	21.2	1534	23.0	1579	24.8	1625	26.6				
15500	1238	13.1	1267	14.1	1295	14.9	1350	16.7	1403	18.5	1454	20.3	1502	22.1	1549	23.9	1594	25.7	1637	27.6				
16000	1256	13.7	1284	14.7	1312	15.6	1366	17.4	1418	19.2	1469	21.1	1517	22.9	1564	24.8	1608	26.7	1652	28.6				
16500	1274	14.3	1302	15.3	1329	16.3	1382	18.1	1434	20.0	1484	21.9	1532	23.8	1578	25.7	1623	27.6	1666	29.6				
17000	1292	14.9	1320	15.9	1347	16.9	1399	18.9	1450	20.8	1499	22.8	1547	24.1	1593	26.7	1638	28.6						
17500	1310	15.5	1338	16.6	1364	17.6	1416	19.7	1466	21.7	1515	23.6	1562	25.6	1608	27.6	1652	29.7						
18000	1330	16.2	1356	17.2	1382	18.3	1433	20.4	1483	22.5	1531	24.5	1578	26.6	1623	28.6	1667	30.7						
18500	1350	16.9	1375	17.9	1400	19.0	1451	21.1	1499	23.3	1547	25.5	1594	27.6	1638	29.7								
19000	1370	17.6	1395	18.6	1419	19.7	1469	21.9	1517	24.2	1564	26.4	1610	28.5	1654	30.7								
19500	1391	18.3	1415	19.4	1439	20.5	1487	22.7	1535	25.0	1581	27.3	1626	29.6										
20000	1411	19.0	1435	20.2	1459	21.3	1505	23.6	1553	25.9	1598	28.3	1642	30.6										
20500	1432	19.8	1456	21.0	1479	22.1	1525	24.4	1571	26.8	1616	29.2	1659	31.6										

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 1163
PLG Class II	Maximum rpm 1517

Motor on Frame Limit	324T ODP 324T TEFC
Minimum Motor Size	1 [hp]
Wheel Diameter	33.00 [in.] 838 [mm]
Peak Power	$(\text{rpm} / 447)^3$ [hp] $(\text{rpm} / 493)^3$ [kW]
Tip Speed	$\text{rpm} \times 8.64$ [ft/min] $\text{rpm} \times 0.0439$ [m/s]
Wheel Outlet Velocity	$(\text{cfm}) / 6.27$ [ft/min] $(\text{m}^3/\text{s}) / 3.69$ [m/s]
% Wide Open Volume (% WOV)	$(\text{cfm}) / (\text{rpm} \times 0.233)$ $(\text{m}^3/\text{hr}) / (\text{rpm} \times 0.396)$

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5500	327	0.39	408	0.71	476	1.04	535	1.40																
6100	343	0.45	422	0.80	487	1.16	545	1.54	597	1.94	649	2.38												
6700	362	0.52	436	0.91	499	1.29	556	1.70	607	2.11	655	2.55	702	3.03										
7300	380	0.60	450	1.02	513	1.43	567	1.86	618	2.30	664	2.76	708	3.24	752	3.76								
7900	401	0.69	466	1.03	526	1.58	580	2.04	629	2.50	675	3.00	717	3.49	758	4.00	799	4.55	838	5.12				
8500	422	0.79	482	1.25	541	1.74	594	2.23	641	2.72	686	3.24	728	3.76	768	4.29	805	4.83	844	5.42	881	6.03		
9100	443	0.90	500	1.38	555	1.91	607	2.43	655	2.95	698	3.64	739	4.04	779	4.60	816	5.17	851	5.75	887	6.35	922	7.00
9700	465	1.03	518	1.52	571	2.08	622	2.64	668	3.20	711	3.76	751	4.34	790	4.92	827	5.52	862	6.12	896	6.74	928	7.36
10300	488	1.17	537	1.68	588	2.26	636	2.86	682	3.45	725	4.04	764	4.64	802	5.26	838	5.88	873	6.51	907	7.15	939	7.80
10900	511	1.33	557	1.85	605	2.45	652	3.09	696	3.71	738	4.43	778	4.97	815	5.61	850	6.26	884	6.92	917	7.58	949	8.26
11500	534	1.50	578	2.05	623	2.66	668	3.32	711	4.00	752	4.65	791	5.31	828	5.97	863	6.65	896	7.34	928	8.03	960	8.73
12100	557	1.69	599	2.25	641	2.88	684	3.56	726	4.27	767	4.97	805	5.66	841	6.36	876	7.06	909	7.77	940	8.49	971	7.23
12700	580	1.90	620	2.47	660	3.12	702	3.83	742	4.56	781	5.31	819	6.03	855	6.76	889	7.49	922	8.22	953	8.97	984	9.73
13300	604	2.13	642	2.72	681	3.38	720	4.10	759	4.86	797	5.64	834	6.40	869	7.17	903	7.93	935	8.70	967	9.47	997	10.3
13900	628	2.38	665	2.99	701	3.67	738	4.40	776	5.18	813	5.99	848	6.81	883	7.60	917	8.39	949	9.19	980	9.99	1010	10.8
14500	653	2.65	687	3.28	722	3.97	757	4.71	794	5.52	829	6.35	864	7.20	898	8.05	931	8.87	963	9.70	993	10.5	1023	11.4
15100	678	2.95	710	3.58	744	4.29	777	5.06	812	5.87	846	6.73	880	7.60	913	8.50	946	9.37	977	10.2	1007	11.1	1037	12.0
15700	702	3.26	733	3.91	765	4.63	798	5.42	830	6.25	864	7.13	897	8.03	929	8.94	960	9.88	992	10.8	1021	11.7	1050	12.6
16300	727	3.60	756	4.27	787	5.00	819	5.81	849	6.65	882	7.55	914	8.47	945	9.41	976	10.4	1006	11.3	1036	12.3	1065	13.2
16900	752	3.97	779	4.64	809	5.40	840	6.22	869	7.08	900	7.99	931	8.93	962	9.90	992	10.9	1022	11.9	1051	12.9	1079	13.8
17500	777	4.36	802	5.04	832	5.83	861	6.65	890	7.53	919	8.45	950	9.42	979	10.4	1009	11.4	1038	12.5	1066	13.5	1094	14.5
18100	802	4.78	826	5.47	855	6.28	882	7.11	911	8.02	938	8.94	968	9.93	997	11.0	1025	12.0	1054	13.0	1082	14.1	1108	15.1
18700	827	5.22	849	5.92	878	6.75	904	7.60	932	8.52	959	9.47	986	10.5	1015	11.5	1042	12.6	1070	13.6	1098	14.7	1124	15.8
19300	852	5.69	874	6.42	900	7.25	927	8.12	953	9.05	980	10.0	1005	11.0	1033	12.1	1060	13.2	1086	14.3	1114	15.4	1140	16.5
19900	877	6.19	898	6.94	923	7.78	949	8.68	974	9.61	1000	10.6	1025	11.6	1052	12.7	1078	13.8	1104	14.9	1130	16.1	1156	17.2

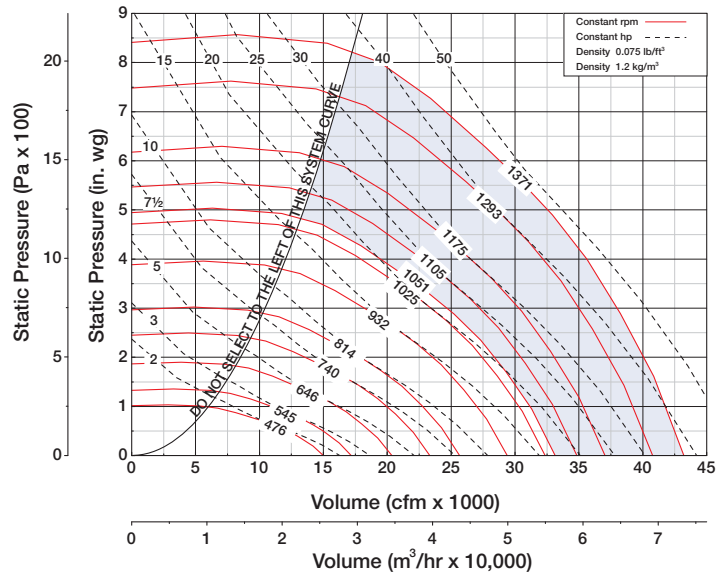
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10300	939	7.80	969	8.46	1001	9.15	1063	10.6																
10900	949	8.26	980	9.94	1010	9.63	1069	11.1	1127	12.6														
11500	960	8.73	991	9.44	1021	10.2	1077	11.6	1133	13.2	1188	14.8												
12100	971	9.23	1002	9.96	1031	10.7	1088	12.2	1140	13.8	1194	15.4	1217	17.1	1297	18.9								
12700	984	9.73	1013	10.5	1042	11.3	1098	12.8	1151	14.4	1201	16.1	1252	17.8	1303	19.6	1351	21.4						
13300	997	10.3	1026	11.1	1053	11.9	1109	13.5	1162	15.1	1212	16.8	1259	18.5	1308	20.3	1357	22.2	1403	24.1				
13900	1010	10.8	1039	11.6	1066	12.5	1120	14.1	1173	15.8	1223	17.6	1270	19.3	1316	21.1	1362	23.0	1409	24.9	1454	26.9		
14500	1023	11.4	1052	12.2	1079	13.1	1132	14.8	1184	16.6	1233	18.3	1281	20.0	1326	22.0	1370	23.9	1415	25.8	1459	27.8	1503	29.9
15100	1037	12.0	1065	12.8	1093	13.7	1145	15.5	1195	17.3	1244	19.1	1292	21.0	1337	22.9	1381	24.8	1423	26.7	1465	28.7	1508	30.9
15700	1050	12.6	1079	13.5	1106	14.4	1158	16.2	1208	18.1	1255	20.0	1303	21.9	1348	23.8	1391	25.8	1433	27.7	1474	29.8	1514	31.8
16300	1065	13.2	1092	14.1	1119	15.1	1172	16.9	1221	18.9	1268	20.8	1314	22.8	1359	24.8	1402	26.8	1444	28.8	1484	30.9		
16900	1079	13.8	1106	14.8	1133	15.8	1185	17.7	1234	19.7	1281	21.7	1325	23.7	1370	25.7	1413	27.8	1455	29.9	1495	32.0		
17500	1094	14.5	1121	15.5	1147	16.5	1198	18.5	1247	20.5	1294	22.6	1338	24.6	1381	26.8	1424	28.9	1466	31.0	1506	33.2		
18100	1108	15.2	1135	16.2	1162	17.2	1212	19.3	1261	21.4	1307	23.5	1351	25.6	1394	27.8	1435	30.0	1477	32.1	1517	34.4		
18700	1124	15.8	1150	17.0	1176	18.0	1226	20.1	1274	22.3	1320	24.4	1365	26.6	1407	28.8	1448	31.1	1488	33.3				
19300	1140	16.5	1166	17.7	1191	18.8	1241	21.0	1288	23.2	1334	25.4	1378	27.6	1420	29.9	1461	32.2	1500	34.5				
19900	1156	17.2	1182	18.4	1206	19.6	1255	21.9	1302	24.1	1347	26.4	1391	28.7	1434	31.0	1474	33.3	1513	35.7				
20500	1172	17.9	1198	19.1	1222	20.4	1270	22.8	1317	25.1	1361	27.4	1405	29.8	1447	32.1	1487	34.5						
21100	1189	18.7	1214	19.9	1238	21.2	1285	23.7	1331	26.1	1376	28.5	1418	30.9	1460	33.3	1501	35.7						
21700	1207	19.5	1230	20.7	1254	22.0	1301	24.5	1346	27.1	1390	29.5	1433	32.0	1474	34.5	1514	37.0						
22300	1225	20.3	1248	21.6	1271	22.8	1317	25.5	1361	28.1	1405	30.6	1447	33.2	1488	35.7								
22900	1243	21.1	1265	22.4	1287	23.7	1333	26.4	1377	29.1	1419	31.8	1461	34.4	1502	37.0								
23500	1261	22.0	1284	23.3	1305	24.6	1349	27.4	1393	30.1	1434	32.9	1476	35.6	1516	38.2								
24100	1280	22.9	1302	24.2	1323	25.6	1366	28.3	1409	31.2	1450	34.0	1491	36.8										
24700	1298	23.8	1320	25.2	1341	26.6	1383	29.4	1425	32.2	1466	35.1	1506	38.1										

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 1051
PLG Class II	Maximum rpm 1371

Motor on Frame Limit	326T ODP 324T TEFC
Minimum Motor Size	1 [hp]
Wheel Diameter	36.50 [in.] 927 [mm]
Peak Power	$(\text{rpm} / 378)^3$ [hp] $(\text{rpm} / 417)^3$ [kW]
Tip Speed	$\text{rpm} \times 9.56$ [ft/min] $\text{rpm} \times 0.0485$ [m/s]
Wheel Outlet Velocity	$(\text{cfm}) / 7.67$ [ft/min] $(\text{m}^3/\text{s}) / 4.51$ [m/s]
% Wide Open Volume (% WOV)	$(\text{cfm}) / (\text{rpm} \times 0.315)$ $(\text{m}^3/\text{hr}) / (\text{rpm} \times 0.536)$

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6800	297	0.48	370	0.88	431	1.29	484	1.72	535	2.21														
7500	311	0.56	382	0.99	440	1.43	493	1.89	540	2.38	587	2.92												
8200	327	0.64	394	1.11	451	1.58	502	2.08	549	2.59	592	3.13	635	3.71										
8900	343	0.72	406	1.24	463	1.74	512	2.27	558	2.81	600	3.37	640	3.96	679	4.59								
9600	360	0.83	420	1.37	474	1.92	523	2.48	567	3.05	609	3.64	648	4.24	684	4.87	722	5.55	757	6.24				
10300	378	0.94	434	1.51	487	2.10	535	2.69	578	3.3	618	3.92	657	4.55	693	5.20	727	5.86	762	6.58	796	7.32		
11000	397	1.07	449	1.66	499	2.30	546	2.93	589	3.56	629	4.21	666	4.88	702	5.56	736	6.25	768	6.95	801	7.71	833	8.49
11700	416	1.22	464	1.82	513	2.49	559	3.17	601	3.84	640	4.52	676	5.22	711	5.93	745	6.65	777	7.39	808	8.13	838	8.91
12400	435	1.38	480	2.00	527	2.70	571	3.43	613	4.13	651	4.84	687	5.57	721	6.32	754	7.07	786	7.83	817	8.61	846	9.40
13100	455	1.56	498	2.20	541	2.29	584	3.69	625	4.44	663	5.19	699	5.94	732	6.72	764	7.50	796	8.30	826	9.11	855	9.92
13800	474	1.76	515	2.41	557	3.16	598	3.95	637	4.76	675	5.54	710	6.33	744	7.14	775	7.95	805	8.78	835	9.62	864	10.5
14500	494	1.97	533	2.65	573	3.41	612	4.23	650	5.09	687	5.91	722	6.74	755	7.58	787	8.42	816	9.28	845	10.2	874	11.0
15200	514	2.20	552	2.90	589	3.68	627	4.53	664	5.41	700	6.30	734	7.16	767	8.03	798	8.91	828	9.80	856	10.7	883	11.6
15900	535	2.46	570	3.17	606	3.97	642	4.84	678	5.76	713	6.70	747	7.60	779	8.51	810	9.42	839	10.3	867	11.3	895	12.2
16600	555	2.73	589	3.47	623	4.29	658	5.18	692	6.12	727	7.09	759	8.06	791	9.00	821	9.95	851	10.9	879	11.9	906	12.8
17300	577	3.04	609	3.79	641	4.63	674	5.53	707	6.50	740	7.50	772	8.52	804	9.51	834	10.5	862	11.5	890	12.5	917	13.5
18000	598	3.37	628	4.14	660	4.99	690	5.91	723	6.90	754	7.92	786	8.98	816	10.1	846	11.1	874	12.1	902	13.1	929	14.2
18700	619	3.72	648	4.51	678	5.37	708	6.32	739	7.32	769	8.38	800	9.46	830	10.6	859	11.7	887	12.7	914	13.8	940	14.8
19400	640	4.10	668	4.90	696	5.78	726	6.75	755	7.77	785	8.85	814	9.96	844	11.1	872	12.2	899	13.4	926	14.5	952	15.6
20100	662	4.50	688	5.32	715	6.22	744	7.21	771	8.24	801	9.34	829	10.5	857	11.6	885	12.8	912	14.0	939	15.2	965	16.3
20800	683	4.93	708	5.76	735	6.70	762	7.69	789	8.75	816	9.86	844	11.0	871	12.2	899	13.4	926	14.7	951	15.9	977	17.1
21500	705	5.39	728	6.23	754	7.19	780	8.20	807	9.29	832	10.4	860	11.6	886	12.8	913	14.1	939	15.3	965	16.6	990	17.8
22200	726	5.88	748	6.73	774	7.72	799	8.74	825	9.85	849	11.0	876	12.2	902	13.4	927	14.7	953	16.0	978	17.3	1003	18.6
22900	748	6.40	768	7.26	794	8.28	818	9.31	843	10.4	867	11.6	892	12.8	918	14.1	942	15.4	967	16.7	992	18.0	1016	19.4
23600	769	6.95	789	7.84	813	8.86	837	9.93	861	11.1	885	12.3	908	13.5	933	14.8	958	16.1	981	17.4	1006	18.8	1030	20.2

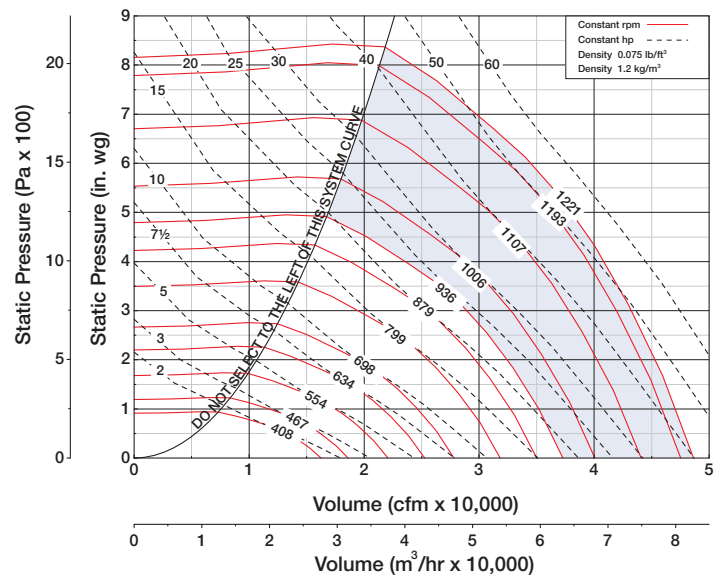
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13100	855	9.92	883	10.8	910	11.6	964	13.4	1017	15.3														
13800	864	10.5	892	11.3	919	12.2	970	14.0	1022	15.9	1072	17.9												
14500	874	11.0	901	11.9	928	12.8	979	14.7	1027	16.5	1077	18.6	1125	20.6										
15200	883	11.6	911	12.5	937	13.5	988	15.4	1036	17.3	1082	19.3	1130	21.4	1175	23.6								
15900	895	12.2	921	13.2	947	14.1	998	16.1	1045	18.1	1091	20.1	1135	22.2	1180	24.4	1224	26.7						
16600	906	12.8	932	13.8	957	14.8	1007	16.8	1055	18.9	1100	21.0	1143	23.1	1185	25.3	1229	27.6	1271	30.0	1311	32.4		
17300	917	13.5	943	14.5	968	15.5	1016	17.6	1064	19.7	1109	21.9	1152	24.0	1193	26.2	1234	28.5	1276	30.9	1316	33.4	1355	35.9
18000	929	14.2	955	15.2	980	16.3	1027	18.4	1073	20.6	1118	22.8	1161	25.0	1202	27.3	1242	29.6	1281	31.9	1321	34.5	1360	37.0
18700	940	14.8	966	15.9	991	17.0	1039	19.2	1083	21.5	1128	23.7	1170	26.0	1211	28.3	1251	30.7	1289	33.1	1326	35.5	1365	38.1
19400	952	15.6	978	16.7	1003	17.8	1050	20.0	1095	22.3	1137	24.7	1180	27.0	1221	29.4	1260	31.8	1298	34.3	1335	36.8	1370	39.3
20100	965	16.3	990	17.4	1014	18.6	1061	20.9	1106	23.3	1148	25.7	1189	28.1	1230	30.6	1269	33.0	1307	35.5	1344	38.1		
20800	977	17.1	1002	18.2	1026	19.4	1073	21.8	1117	24.2	1159	26.7	1200	29.2	1239	31.7	1279	34.2	1317	36.8	1353	39.4		
21500	990	17.8	1014	19.0	1038	20.3	1084	22.7	1129	25.2	1171	27.7	1211	30.3	1249	32.9	1288	35.5	1326	38.1	1362	40.8		
22200	1003	18.6	1027	19.9	1051	21.1	1096	23.7	1140	26.2	1182	28.8	1222	31.4	1261	34.1	1298	36.7	1335	39.4				
22900	1016	19.4	1040	20.8	1063	22.0	1108	24.6	1152	27.3	1194	29.9	1234	32.6	1272	35.3	1309	38.0	1345	40.8				
23600	1030	20.2	1053	21.6	1076	23.0	1121	25.6	1164	28.3	1205	31.0	1245	33.8	1283	36.5	1320	39.3	1356	42.2				
24300	1044	21.0	1067	22.4	1089	23.9	1133	26.7	1176	29.4	1217	32.2	1257	35.0	1295	37.8	1331	40.9	1367	43.6				
25000	1058	21.9	1081	23.3	1103	24.8	1146	27.7	1188	30.5	1229	33.4	1268	36.3	1306	39.1	1343	42.1						
25700	1072	22.7	1095	24.2	1117	25.7	1159	28.8	1201	31.7	1241	34.6	1280	37.6	1318	40.5	1354	43.5						
26400	1087	23.6	1109	25.1	1130	26.7	1173	29.8	1213	32.9	1253	35.9	1292	38.9	1329	41.9	1366	44.9						
27100	1103	24.6	1123	26.1	1144	27.7	1186	30.9	1226	34.1	1266	37.1	1304	40.2	1341	43.3								
27800	1118	25.5	1139	27.1	1159	28.7	1200	31.9	1240	35.2	1279	38.5	1317	41.6	1353	44.8								
28500	1134	26.5	1154	28.1	1174	29.8	1214	33.0	1253	36.4	1291	39.8	1329	43.0	1366	46.2								
29200	1150	27.6	1170	29.2	1189	30.8	1228	34.2	1267	37.6	1305	41.1	1342	44.5										
29900	1166	28.6	1186	30.3	1205	32.0	1242	35.4	1281	38.8	1319	42.4	1354	45.9										

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 936
PLG Class II	Maximum rpm 1221

Motor on Frame Limit	326T ODP 326T TEFC
Minimum Motor Size	2 [hp]
Wheel Diameter	40.25 [in.] 1022 [mm]
Peak Power	$(\text{rpm} / 324)^3$ [hp] $(\text{rpm} / 357)^3$ [kW]
Tip Speed	$\text{rpm} \times 10.5$ [ft/min] $\text{rpm} \times 0.0535$ [m/s]
Wheel Outlet Velocity	$(\text{cfm}) / 9.33$ [ft/min] $(\text{m}^3/\text{s}) / 5.49$ [m/s]
% Wide Open Volume (% WOV)	$(\text{cfm}) / (\text{rpm} \times 0.398)$ $(\text{m}^3/\text{hr}) / (\text{rpm} \times 0.677)$

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	264	0.54	327	0.97	379	0.42	426	1.89																
9000	282	0.65	339	1.13	391	1.62	436	2.12	477	2.66														
10000	301	0.77	353	1.29	403	1.84	447	2.38	487	2.95	524	3.54	559	4.15										
11000	321	0.92	369	1.47	415	2.07	459	2.66	497	3.27	534	3.89	568	4.54	600	5.21								
12000	342	1.09	386	1.67	429	2.32	471	2.97	509	3.60	544	4.27	577	4.96	609	5.66	640	6.38	668	7.11				
13000	364	1.29	404	1.89	444	2.57	484	3.28	521	3.99	556	4.69	588	5.40	619	6.14	649	6.90	677	7.67	705	8.46		
14000	386	1.51	423	2.14	460	2.85	497	3.61	534	4.38	568	5.13	600	5.89	630	6.66	659	7.44	687	8.26	714	9.08	740	9.91
15000	409	1.77	443	2.43	478	3.17	513	3.96	547	4.78	580	5.60	612	6.40	642	7.21	670	8.04	697	8.87	723	9.74	749	10.6
16000	431	2.06	464	2.74	496	3.50	528	4.33	561	5.20	593	6.07	624	6.94	654	7.80	682	8.66	708	9.54	734	10.4	759	11.3
17000	454	2.38	484	3.09	515	3.88	546	4.74	577	5.63	607	6.57	637	7.49	666	8.42	694	9.33	720	10.2	746	11.2	770	12.1
18000	478	2.74	506	3.48	535	4.30	564	5.18	593	6.10	622	7.07	650	8.07	679	9.04	706	10.0	732	11.0	757	12.0	782	12.9
19000	501	3.13	528	3.91	556	4.75	582	5.65	610	6.61	638	7.61	665	8.65	692	9.69	719	10.7	745	11.8	770	12.8	794	13.8
20000	525	3.56	551	4.38	576	5.24	602	6.18	628	7.16	654	8.19	681	9.26	706	10.4	732	11.5	757	12.5	782	13.6	806	14.7
21000	549	4.04	573	4.89	597	5.77	622	6.74	647	7.75	672	8.81	696	9.91	722	10.4	746	12.2	770	13.3	795	14.5	818	15.6
22000	574	4.56	596	5.45	619	6.36	643	7.35	666	8.39	690	9.48	714	10.6	737	11.8	761	13.0	784	14.2	808	15.4	831	16.6
23000	598	5.12	619	6.05	641	7.00	663	8.00	686	9.08	708	10.9	731	11.4	754	12.5	777	13.8	799	15.0	821	16.3	844	17.5
24000	622	5.74	641	6.70	663	7.69	684	8.70	706	9.81	727	11.0	750	12.1	771	13.4	792	14.6	815	15.9	837	17.2	857	18.5
25000	647	6.40	665	7.41	686	8.43	706	9.47	727	10.6	748	11.8	768	13.0	789	14.2	810	15.5	831	16.8	852	18.7	873	19.5
26000	667	7.11	688	8.16	708	9.22	728	10.3	748	11.4	768	12.6	787	13.9	808	15.2	828	16.5	848	17.8	868	19.2	888	20.6
27000	695	7.88	712	8.96	731	10.1	750	11.2	769	12.3	788	13.6	807	14.8	826	16.1	846	17.5	865	18.9	884	20.2	904	21.7
28000	720	8.71	736	9.83	754	11.0	772	12.1	790	13.3	809	14.5	828	15.8	846	17.2	864	18.5	884	19.9	902	21.4	920	22.8
29000	744	9.59	760	10.8	777	11.9	795	13.1	812	14.3	830	15.7	848	16.9	866	18.3	883	19.6	902	21.1	920	22.6	938	24.0
30000	769	10.5	784	11.7	800	12.9	817	14.2	834	15.4	851	16.7	869	18.0	886	19.4	903	20.8	920	22.3	938	23.8	956	25.3
31000	794	11.5	809	12.8	823	14.0	840	15.3	857	16.6	873	17.9	890	19.2	907	20.7	923	22.1	939	23.6	956	25.1	974	26.7
32000	818	12.6	833	13.9	847	15.2	863	16.5	879	17.8	895	19.1	910	20.5	927	21.9	944	23.4	960	24.9	975	26.5	992	28.1

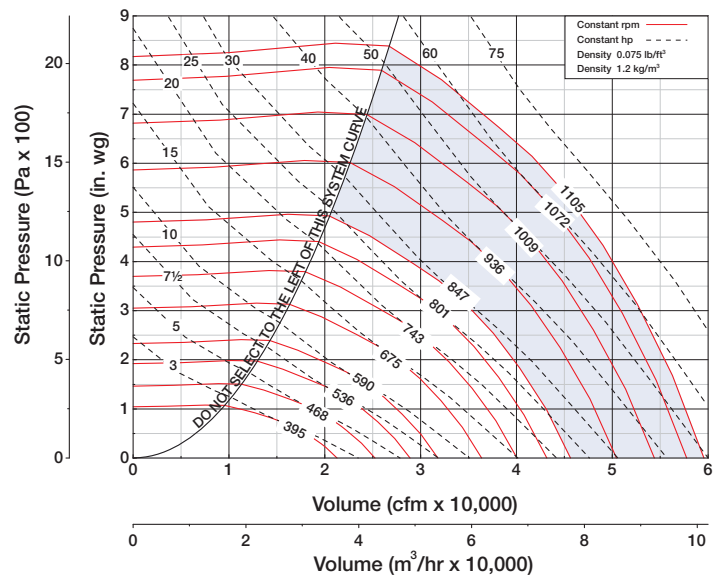
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15000	749	10.6	774	11.5	798	12.4																		
16000	759	11.3	784	12.3	807	13.2	853	15.1																
17000	770	12.1	793	13.1	817	14.1	862	16.0	905	18.1	945	20.2												
18000	782	12.9	805	13.9	827	14.9	872	17.0	914	19.1	954	21.3	993	23.5										
19000	794	13.8	817	14.8	839	15.9	881	18.0	924	20.2	964	22.4	1002	24.7	1039	27.0								
20000	806	14.7	829	15.8	851	16.9	893	19.1	933	21.3	973	23.6	1012	26.0	1048	28.3	1083	30.8	1117	33.2				
21000	818	15.6	841	16.8	863	17.9	905	20.2	945	22.5	983	24.8	1021	27.3	1058	29.7	1093	32.2	1126	34.8	1159	37.3		
22000	831	16.6	853	17.8	875	19.0	917	21.3	957	23.7	994	26.1	1031	28.6	1067	31.5	1102	33.7	1136	36.4	1168	39.0	1200	41.7
23000	844	17.5	866	18.8	888	20.0	929	22.5	969	25.0	1006	27.5	1042	30.0	1077	32.6	1112	35.3	1145	38.0	1178	40.7	1209	43.5
24000	857	18.5	879	19.8	901	21.1	941	23.8	981	26.3	1018	28.9	1054	31.5	1088	34.2	1121	36.9	1155	39.7	1187	42.5	1219	45.3
25000	873	19.5	893	20.9	914	22.3	954	25.0	993	27.7	1030	30.4	1066	33.1	1100	35.8	1133	38.6	1165	41.4	1197	44.3		
26000	888	20.6	908	22.0	927	23.5	967	26.3	1006	29.1	1042	31.9	1078	34.7	1112	37.5	1145	40.4	1176	43.2	1207	46.1		
27000	904	21.7	924	23.1	943	24.6	980	27.6	1018	30.5	1055	33.5	1090	36.4	1124	39.3	1156	42.2	1188	45.1	1218	48.2		
28000	920	22.8	939	24.3	958	25.8	995	28.9	1031	32.0	1068	35.0	1102	38.1	1136	41.1	1169	44.1	1200	47.1				
29000	938	24.0	955	25.6	974	27.1	1010	30.3	1045	33.5	1080	36.6	1115	39.8	1148	42.9	1181	46.0	1212	49.1				
30000	956	25.3	973	26.9	989	28.4	1025	31.7	1059	35.0	1094	38.2	1128	41.5	1161	44.8	1193	48.0						
31000	974	26.7	991	28.2	1007	29.8	1041	33.1	1075	36.5	1107	39.9	1141	43.3	1174	46.6	1205	50.0						
32000	992	28.1	1009	29.7	1025	31.3	1057	34.6	1090	38.1	1123	41.3	1154	45.1	1187	48.6	1218	52.0						
33000	1010	29.5	1027	31.2	1043	32.8	1074	36.2	1106	39.7	1138	43.3	1169	46.9	1200	50.5								
34000	1030	31.1	1045	32.7	1061	34.4	1092	37.9	1122	41.4	1153	45.1	1184	48.8	1214	52.5								
35000	1050	32.7	1064	34.4	1080	36.1	1110	39.6	1139	43.2	1169	46.9	1199	50.7										
36000	1070	34.4	1084	36.1	1098	37.8	1128	41.4	1157	45.1	1185	48.8	1215	52.7										
37000	1091	36.2	1104	37.9	1118	39.7	1146	43.3	1175	47.0	1203	50.8												

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 847
PLG Class II	Maximum rpm 1105

Motor on Frame Limit	364T ODP 364T TEFC
Minimum Motor Size	3 [hp]
Wheel Diameter	44.50 [in.] 1130 [mm]
Peak Power	$(\text{rpm} / 274)^3$ [hp] $(\text{rpm} / 302)^3$ [kW]
Tip Speed	$\text{rpm} \times 11.7$ [ft/min] $\text{rpm} \times 0.0592$ [m/s]
Wheel Outlet Velocity	$(\text{cfm}) / 11.4$ [ft/min] $(\text{m}^3/\text{s}) / 6.71$ [m/s]
% Wide Open Volume (% WOV)	$(\text{cfm}) / (\text{rpm} \times 0.539)$ $(\text{m}^3/\text{hr}) / (\text{rpm} \times 0.916)$

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9000	230	0.59	289	1.08	337	1.59																		
10200	244	0.70	299	1.26	346	1.81	388	2.41																
11400	260	0.84	311	1.44	357	2.06	397	2.69	434	3.36	468	4.05												
12600	278	1.00	323	1.65	368	2.33	407	3.01	443	3.72	476	4.46	508	5.22										
13800	296	1.18	337	1.86	379	2.61	418	3.36	453	4.11	485	4.89	516	5.70	545	6.52								
15000	314	1.39	353	2.11	391	2.91	429	3.73	463	4.54	495	5.36	524	6.20	553	7.08	580	7.97	606	8.87				
16200	334	1.64	369	2.39	405	3.23	440	4.11	474	4.99	505	5.86	534	6.75	562	7.66	589	8.60	615	9.56	639	10.5	662	11.5
17400	354	1.92	386	2.70	420	3.57	453	4.51	485	5.46	516	6.40	545	7.34	572	8.29	597	9.26	623	10.3	647	11.3	671	12.3
18600	374	2.24	404	3.05	435	3.96	466	4.93	497	5.95	527	6.96	556	7.96	582	8.97	608	9.98	632	11.0	656	12.1	679	13.2
19800	394	2.59	423	3.43	452	4.37	481	5.38	510	6.45	539	7.53	567	8.61	593	9.68	618	10.8	642	11.8	665	12.9	688	14.0
21000	414	2.98	441	3.85	469	4.83	496	5.88	524	6.98	551	8.13	578	9.27	604	10.4	629	11.6	653	12.7	676	13.8	698	15.0
22200	435	3.42	461	4.33	487	5.34	513	6.42	538	7.56	565	8.75	590	9.97	616	11.2	640	12.4	664	13.6	686	14.8	708	16.0
23400	456	3.90	480	4.85	505	5.89	529	7.00	554	8.18	578	9.40	603	10.7	627	12.0	651	13.2	675	14.5	697	15.8	719	17.0
24600	477	4.42	500	5.43	523	6.48	546	7.63	570	8.84	593	10.1	617	11.4	640	12.8	663	14.1	686	15.4	708	16.8	730	18.1
25800	499	5.00	520	6.05	542	7.12	564	8.32	586	9.55	609	10.9	631	12.2	654	13.6	676	15.0	698	16.4	720	17.8	741	19.2
27000	520	5.62	540	6.72	561	7.84	583	9.05	603	10.3	625	11.7	646	13.0	668	14.5	689	15.9	710	17.4	731	18.9	752	20.3
28200	542	6.31	560	7.45	581	8.61	601	9.84	621	11.2	641	12.5	662	13.9	682	15.4	703	16.9	724	18.4	743	20.0	764	21.5
29400	563	7.04	581	8.23	601	9.44	619	10.7	639	12.0	658	13.4	678	14.9	698	16.4	717	17.9	737	19.5	757	21.1	776	22.7
30600	585	7.84	601	9.07	620	10.3	639	11.6	658	13.0	676	14.4	695	15.9	714	17.4	733	19.0	751	20.6	771	22.2	789	23.9
31800	607	8.70	622	9.98	640	11.3	658	12.6	676	14.0	694	15.5	712	17.0	730	18.5	749	20.2	768	21.8	785	23.5	803	25.2
33000	628	9.62	643	10.9	660	12.3	678	13.6	694	15.0	712	16.6	730	18.1	747	19.7	765	21.4	782	23.0	799	24.7	817	26.5
34200	650	10.6	665	12.0	681	13.4	698	14.8	714	16.2	731	17.7	748	19.3	764	20.9	781	22.6	798	24.3	815	26.1	831	27.9
35400	672	11.7	686	13.1	701	14.5	717	16.0	733	17.4	749	19.0	766	20.6	782	22.3	797	24.0	814	25.7	831	27.5	847	29.3
36600	694	12.8	707	14.3	721	15.7	737	17.2	753	18.7	768	20.3	784	22.0	800	23.7	815	25.4	831	27.2	847	29.0	863	30.9
37800	715	14.0	729	15.5	742	17.0	758	18.6	773	20.1	787	21.7	803	23.4	818	25.1	833	26.9	848	28.7	863	30.6	879	32.5

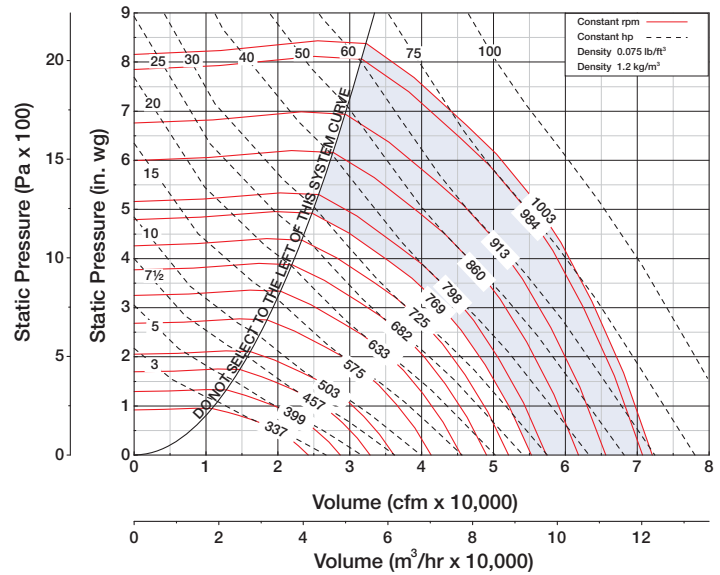
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18600	679	13.2	702	14.3	723	15.4	764	17.6																
19800	688	14.0	710	15.2	732	16.4	773	18.7	811	21.1														
21000	698	15.0	719	16.2	740	17.4	781	19.8	819	22.3	856	24.9												
22200	708	16.0	729	17.2	749	18.4	789	21.0	828	23.6	864	26.2	899	28.9										
23400	719	17.0	740	18.3	760	19.6	798	22.2	836	24.9	873	27.6	907	30.4	940	33.2								
24600	730	18.1	750	19.4	771	20.8	809	23.5	845	26.2	881	29.0	916	31.9	949	34.8	980	37.8	1011	41.8				
25800	741	19.2	761	20.6	781	22.0	819	24.8	855	27.6	890	30.5	924	33.5	957	36.5	989	39.6	1019	42.7	1049	45.8		
27000	752	20.3	772	21.8	792	23.3	830	26.2	866	29.1	900	32.1	933	35.1	965	38.2	997	41.4	1028	44.6	1057	47.8	1086	51.1
28200	764	21.5	784	23.0	803	24.6	841	27.6	876	30.7	910	33.7	943	36.8	974	40.0	1006	43.3	1036	46.6	1065	49.9	1094	53.3
29400	776	22.7	795	24.3	815	25.9	852	29.1	887	32.3	921	35.4	953	38.6	984	41.9	1014	45.2	1044	48.6	1074	52.0	1102	55.5
30600	789	23.9	807	25.6	826	27.3	863	30.6	898	33.9	932	37.2	964	40.5	995	43.9	1024	47.2	1053	50.7	1082	54.2		
31800	803	25.2	821	26.9	838	28.7	874	32.1	909	35.6	942	39.0	974	42.4	1005	45.9	1035	49.4	1063	52.9	1091	56.4		
33000	817	26.5	835	28.3	852	30.1	886	33.7	920	37.3	953	40.9	985	44.4	1016	48.0	1045	51.5	1074	55.6	1101	58.8		
34200	831	27.9	849	29.7	866	31.5	898	35.3	932	39.0	965	42.7	996	46.5	1027	50.0	1056	53.8	1084	57.5				
35400	847	29.3	863	31.2	880	33.1	912	36.9	944	40.8	976	44.6	1007	48.5	1037	52.3	1067	56.1	1095	59.9				
36600	863	30.9	878	32.7	894	34.7	926	38.6	957	42.6	988	46.6	1019	50.6	1049	54.6	1078	58.5						
37800	879	32.5	894	34.4	909	36.3	940	40.3	970	44.4	1000	48.6	1030	52.7	1060	56.8	1089	60.7						
39000	895	34.1	910	36.1	925	38.1	954	42.1	984	46.3	1013	50.6	1042	54.9	1071	59.1	1100	63.3						
40200	911	35.9	926	37.9	941	39.9	969	44.1	998	48.3	1027	52.7	1055	57.1	1083	61.5								
41400	928	37.7	943	39.7	957	41.8	985	46.0	1012	50.3	1041	54.9	1068	59.3	1095	63.9								
42600	946	39.6	959	41.7	973	43.8	1001	48.1	1027	52.5	1055	57.0	1082	61.6										
43800	964	41.7	977	43.7	990	45.9	1017	50.3	1043	54.7	1069	59.3	1096	64.0										
45000	982	43.5	995	45.9	1007	48.0	1033	52.5	1059	57.0	1084	61.7												
46200	1000	46.0	1013	48.1	1025	50.3	1049	54.9	1075	59.4	1100	64.2												

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

PLG Class I	Maximum rpm 769
PLG Class II	Maximum rpm 1003

Motor on Frame Limit	365T ODP 365T TEFC
Minimum Motor Size	7½ [hp]
Wheel Diameter	49.00 [in.] 1245 [mm]
Peak Power	$(\text{rpm} / 233)^3$ [hp] $(\text{rpm} / 257)^3$ [kW]
Tip Speed	$\text{rpm} \times 12.8$ [ft/min] $\text{rpm} \times 0.0652$ [m/s]
Wheel Outlet Velocity	$(\text{cfm}) / 13.8$ [ft/min] $(\text{m}^3/\text{s}) / 8.10$ [m/s]
% Wide Open Volume (% WOV)	$(\text{cfm}) / (\text{rpm} \times 0.719)$ $(\text{m}^3/\text{hr}) / (\text{rpm} \times 1.221)$

Imperial data — Metric data



CFM	Static Pressure (in. wg)																							
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11000	210	0.72	263	1.32	307	1.95																		
12500	223	0.87	273	1.54	315	2.22	354	2.95	388	3.71														
14000	238	1.04	284	1.78	325	2.54	362	3.31	395	4.13	426	4.97												
15500	255	1.24	296	2.04	336	2.88	371	3.72	403	4.58	434	5.48	462	6.41										
17000	272	1.47	309	2.31	346	3.24	381	4.16	413	5.08	442	6.03	470	7.02	496	8.03	521	9.1						
18500	290	1.75	324	2.63	358	3.61	392	4.62	423	5.62	452	6.62	478	7.65	504	8.73	529	9.8	552	10.9	575	12.1		
20000	308	2.07	339	2.98	371	4.01	403	5.11	433	6.20	462	7.27	488	8.36	512	9.47	537	10.6	560	11.8	582	13.0	604	14.2
21500	327	2.43	356	3.39	385	4.46	415	5.61	444	6.78	472	7.95	498	9.11	522	10.3	545	11.5	568	12.7	590	14.0	612	15.2
23000	345	2.84	373	3.83	400	4.95	428	6.14	455	7.41	482	8.65	508	9.90	532	11.1	555	12.4	577	13.7	598	15.0	620	16.3
24500	364	3.30	390	4.33	415	5.48	442	6.73	468	8.04	493	9.39	518	10.7	542	12.0	565	13.4	587	14.7	608	16.0	628	17.4
26000	383	3.81	408	4.88	432	6.08	457	7.37	481	8.72	505	10.1	529	11.6	553	13.0	575	14.4	597	15.8	618	17.2	638	18.6
27500	403	4.37	426	5.50	449	6.73	472	8.06	495	9.46	518	10.9	541	12.4	564	13.9	586	15.4	607	16.9	628	18.4	647	19.9
29000	423	5.00	444	6.18	466	7.44	487	8.80	510	10.3	531	11.8	554	13.3	575	14.9	597	16.5	618	18.1	638	19.7	658	21.2
30500	443	5.68	463	6.92	483	8.21	504	9.63	525	11.1	546	12.7	567	14.3	588	15.9	608	17.6	628	19.3	648	20.9	668	22.6
32000	463	6.43	482	7.73	501	9.06	521	10.5	540	12.0	561	13.6	580	15.3	600	17.0	620	18.7	639	20.5	659	22.2	678	24.0
33500	483	7.25	501	8.61	519	9.99	538	11.5	557	13.0	576	14.7	595	16.4	613	18.1	633	19.9	652	21.8	670	23.6	689	25.4
35000	503	8.14	520	9.56	538	11.0	555	12.5	574	14.1	591	15.8	610	17.5	628	19.3	646	21.2	665	23.1	682	25.0	700	26.9
36500	524	9.11	539	10.6	556	12.1	573	13.6	591	15.3	608	17.0	625	18.8	643	20.6	660	22.5	678	24.4	695	26.4	712	28.4
38000	544	10.2	558	11.7	575	13.2	591	14.8	608	16.5	625	18.3	641	20.1	658	22.0	675	23.9	691	25.9	708	27.9	725	29.9
39500	564	11.3	578	12.9	594	14.5	610	16.1	625	17.8	642	19.6	657	21.5	673	23.4	690	25.4	706	27.4	721	29.4	738	31.6
41000	585	12.5	598	14.1	613	15.8	628	17.5	643	19.2	659	21.0	674	23.0	689	24.9	705	26.9	721	29.0	736	31.1	751	33.2
42500	605	13.8	618	15.5	632	17.2	647	18.9	661	20.7	676	22.6	691	24.5	706	26.5	720	28.6	736	30.7	751	32.9	766	35.0
44000	625	15.2	638	16.9	651	18.7	666	20.5	680	22.3	693	24.2	708	26.2	723	28.2	737	30.3	751	32.5	766	34.7	780	36.9
45500	646	16.7	658	18.5	670	20.3	684	22.2	698	24.0	712	25.9	726	27.9	740	30.0	753	32.2	767	34.3	781	36.6	795	38.9
47000	666	18.2	678	20.1	690	22.0	703	23.9	717	25.8	730	27.8	743	29.8	757	31.9	770	34.1	783	36.4	796	38.6	811	41.0

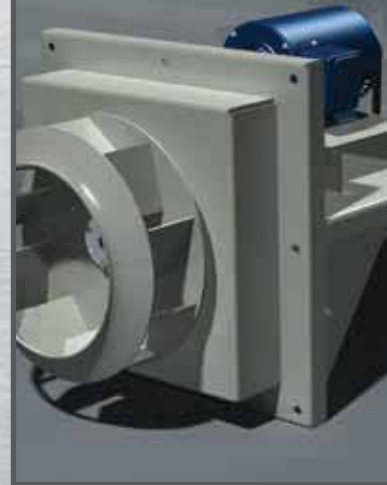
CFM	Static Pressure (in. wg)																							
	3.00		3.25		3.50		4.00		4.50		5.00		5.50		6.00		6.50		7.00		7.50		8.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
23000	620	16.3	640	17.6	619	19.0	697	21.8																
24500	628	17.4	648	18.8	667	20.2	704	23.1	739	26.1														
26000	638	18.6	657	20.0	675	21.5	712	24.5	747	27.6	780	30.8												
27500	647	19.9	666	21.4	685	22.9	720	26.0	755	29.2	788	32.5	820	35.8	850	39.2								
29000	658	21.2	676	22.8	695	24.3	729	27.5	763	30.8	796	34.2	828	37.6	858	41.1	886	44.7						
30500	668	22.6	687	24.2	705	25.9	739	29.2	772	32.5	804	36.0	835	39.6	865	43.2	894	46.8	922	50.5				
32000	678	24.0	697	25.7	715	27.4	749	30.9	782	34.4	813	37.9	843	41.6	873	45.3	902	49.1	930	52.9	957	56.8	983	60.0
33500	689	25.4	707	27.2	725	29.1	759	32.7	792	36.3	823	39.9	852	43.7	881	47.5	910	51.4	938	55.3	964	59.3	990	63.0
35000	700	26.9	718	28.8	736	30.7	770	34.5	802	38.3	833	42.0	862	45.9	890	49.8	918	53.7	946	57.8	972	61.9	998	66.0
36500	712	28.4	729	30.4	747	32.4	780	36.4	812	40.3	843	44.2	872	48.2	900	52.2	927	56.2	954	60.4	980	64.6		
38000	725	29.9	741	32.0	757	34.2	791	38.3	822	42.4	853	46.5	882	50.6	910	54.7	937	58.9	963	63.1	988	67.4		
39500	738	31.6	754	33.7	770	35.9	802	40.2	833	44.5	863	48.8	892	53.0	920	57.3	947	61.6	972	65.9	997	70.3		
41000	751	33.2	767	35.5	783	37.7	813	42.2	844	46.7	873	51.2	902	55.6	930	59.9	957	64.4	982	68.8				
42500	766	35.0	780	37.3	796	39.6	825	44.2	855	48.9	884	53.7	912	58.1	940	62.7	967	67.2	992	71.8				
44000	780	36.9	795	39.2	809	41.5	838	46.3	866	51.1	895	55.9	923	60.7	950	65.5	977	70.2	1002	74.9				
45500	795	38.9	809	41.2	823	43.6	851	48.4	879	53.4	906	58.4	934	63.3	961	68.3	987	73.3						
47000	811	41.0	824	43.3	838	45.8	864	50.7	892	55.7	919	60.9	945	66.1	972	71.2	998	76.3						
48500	826	43.0	839	45.6	853	48.0	878	53.0	905	58.2	931	63.5	957	68.8	983	74.1								
50000	842	45.4	855	47.9	868	50.4	893	55.5	918	60.7	944	66.1	969	71.6	994	77.1								
51500	858	47.8	870	50.3	883	52.8	908	58.1	932	63.4	957	68.8	982	74.4										
53000	875	50.3	887	52.8	898	55.4	923	60.7	947	66.1	970	71.7	995	77.4										
54500	892	53.0	903	55.5	914	58.1	938	63.5	962	69.0	985	74.7												
56000	909	55.7	920	58.3	931	61.0	953	66.4	977	72.0	1000	77.8												

Performance shown is for model PLG without housing and outlet duct. Bhp does not include drive losses.

Specifications

Leading Edge Support

All Greenheck products are supported by the industry's best product literature, electronic media, and Computer Aided Product Selection program (CAPS). You'll also find extensive product and Installation and Operation Manual (IOM) information on the internet. To locate your nearest Greenheck representative, visit our website at www.greenheck.com



Typical Specifications for Belt Drive Plug Fans

Each fan shall be belt drive in AMCA arrangement 9. Panels and framework shall be constructed of heavy-gauge steel, prepunched for ease of installation, with die-formed flanges and welded corners. Rigid steel gussets are welded to the frame and motor supports to ensure precise drive alignment and reduce low frequency vibration. An optional OSHA compliant belt guard and shaft guard shall be available to completely cover the motor pulley and belt(s).

The fan wheel shall be of the non-overloading backward-inclined centrifugal type. Wheels shall be statically and dynamically balanced to balance grade G6.3 per ANSI S2.19. The wheel and fan inlet shall be carefully matched and shall have precise running tolerances for maximum performance and operating efficiency.

After fabrication, all carbon steel components shall be cleaned and chemically treated by a phosphating process to ensure proper removal of grease, oil, scale, etc. Fan shall then be coated with a minimum of 2-4 mils of Permatector™ (Polyester Urethane), electrostatically applied and baked. Finish color shall be gray. Coating must exceed 1,000-hour salt spray under ASTM B117 test method.

Fan shafts shall be turned, precision ground and polished steel so the first critical speed is 25% over the maximum fan operating speed. Shaft length shall allow wheel adjustment for wall thickness up to 4 inches.

Fan shaft bearings to be heavy-duty grease lubricated, self-aligning ball or roller pillow block type. Bearings shall be selected for a basic rating fatigue life L_{10} of 80,000 hours at maximum operating speed for each pressure class (Average life or L_{50} of 400,000 hrs.). Bearings shall be Air Handling Quality which includes having low swivel torque, being 100% tested for noise and vibration, and 100% testing to ensure the inner race diameter is within tolerance to prevent vibration.

Fan performance ratings shall conform to AMCA Standard 211 and 311. Fans must be tested in accordance with ANSI/AMCA Standard 210-99 and AMCA Standard 300-96.

Each fan shall be given an electronic vibration analysis in accordance with ANSI/AMCA Standard 204-05, while operating at the specified fan RPM. The vibration signatures shall be taken on each bearing in the horizontal, vertical and axial direction. The maximum allowable fan vibration shall be 0.15 in/sec peak velocity, filter-in as measured at the fan RPM. Report shall be provided at no charge to the customer upon request.



Our Commitment

As a result of our commitment to continuous improvement, Greenheck reserves the right to change specifications without notice.

Specific Greenheck product warranties are located on greenheck.com within the product area tabs and in the Library under Warranties.



Prepared to Support
Green Building Efforts