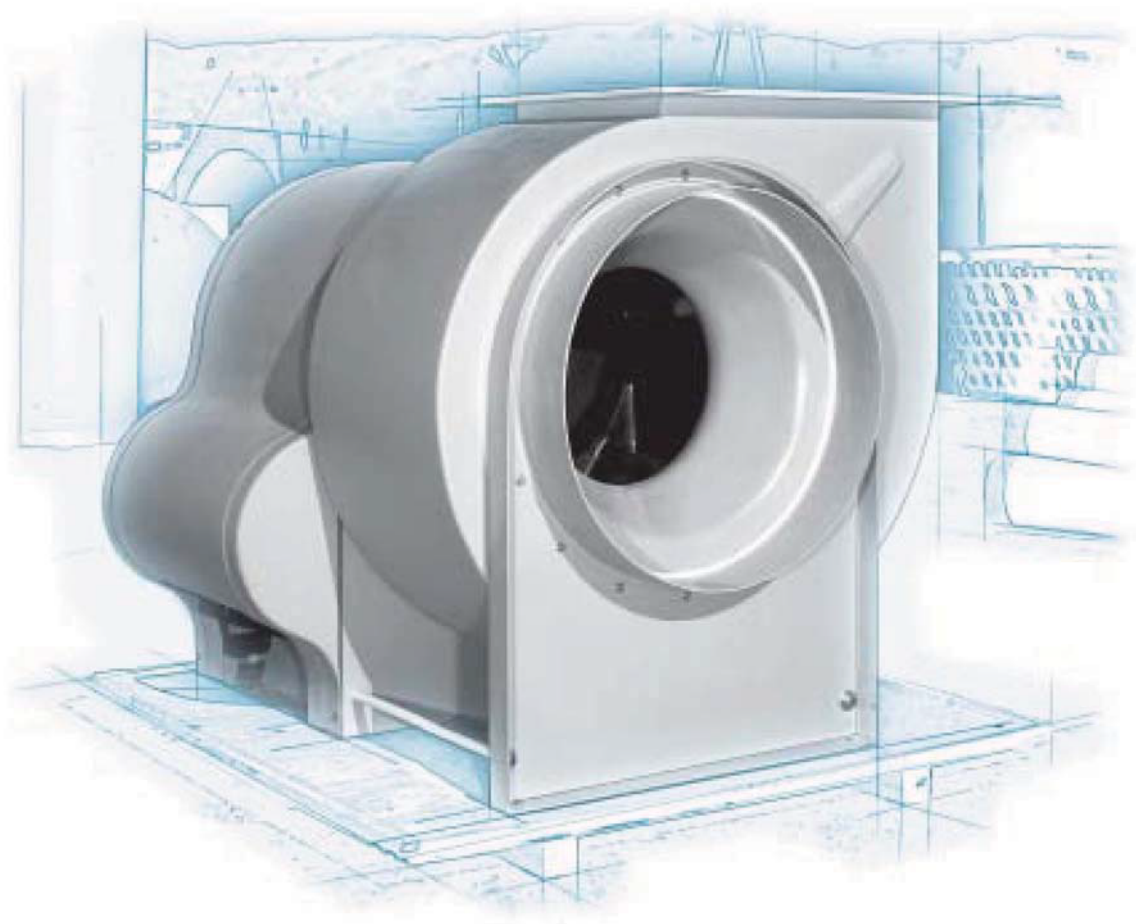


HEE-Dual

A CECO Environmental Brand

Air Pollution Control Products HPCA Series



FRP Centrifugal Airfoil Fans



Construction Features

HOUSING DESIGN

The spiral shaped housing is designed to collect the air leaving the periphery of the wheel and reduce its velocity with a minimum of turbulence, thereby efficiently converting velocity pressure to static pressure for increased performance.

OUTLET FLANGES

The flanges are standard on all HPCA series centrifugal fans. The heavy duty, undrilled flange has a smooth sealing face. Drilling is available as an option.

SHAFT SEAL

A neoprene shaft seal is used to prevent leakage of corrosive fumes which could damage the bearings and the shaft. The elastomer seals against the fiberglass shaft sleeve.

STREAMLINED INLET CONE

A new and improved inlet cone has been provided allowing the correct overlap into the wheel. This design allows the correct air entry into the wheel and prevents leakage.

FIBERGLASS CENTRIFUGAL AIRFOIL WHEEL

The backward-inclined airfoil wheel has ten airfoil profile blades with a vinyl ester resin exterior and a high density light weight interior allowing Class III speeds. The imbedding hub is bolted and bonded to the backplate and permanently encased with a FRP cover.

CUTOFF PLATE

An extended and redesigned cutoff plate has been designed for this new airfoil wheel to provide maximum efficiency.

DRAIN

Every Harrington centrifugal exhaust fan is supplied with a 1" threaded drain outlet located in the bottom most position of the housing.

REINFORCING RODS

The rods are encapsulated in polyvinyl chloride and provide maximum rigidity to the front support frame.

BASE

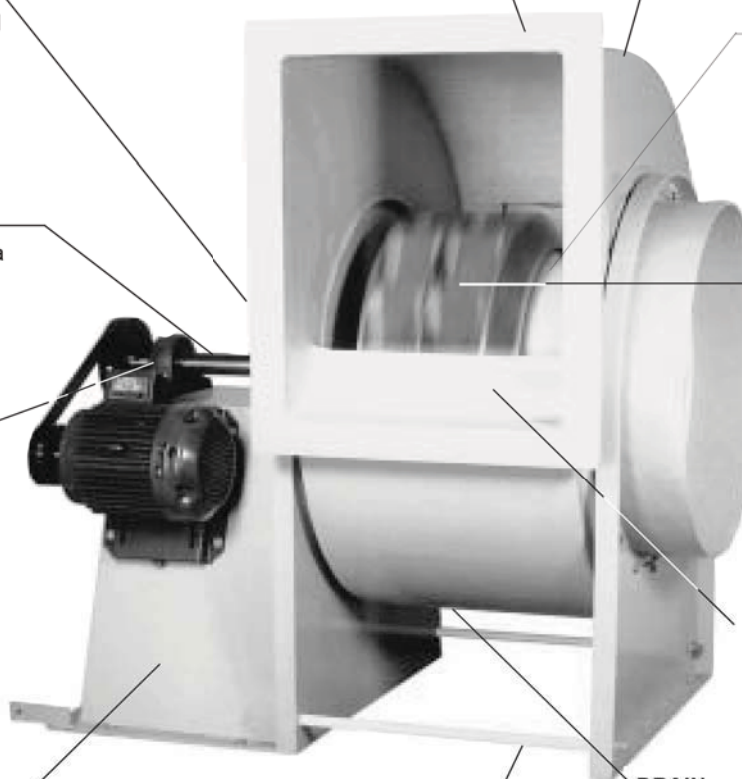
The heavy duty base is sand blasted to white metal and powder coated with a hybrid epoxy urethane blend and oven cured to provide an acid-caustic resistant coating system.

SHAFTS

All HPCA series fans utilize a turned ground and polished carbon steel shaft material. Stainless steel is available for special orders on request.

BEARINGS

Grease lubricated fully self-aligned pillow block ball bearings are standard equipment. Minimum starting friction, simple maintenance and long, trouble-free life expectancy, make them ideal for fan service.



FEATURES AND GENERAL INFORMATION

Air Movement and Control Association Seal



Met-Pro Technologies d/b/a HEE Enviro. Eng. & Duall Air & Water Technologies certifies that the HPCA series FRP centrifugal Airfoil fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

The HEE-Duall backward inclined Airfoil wheel is the result of years of design and experimentation. This unique Airfoil blade profile is a composite structure consisting of a premium grade vinyl resin fiberglass exterior and high density light weight interior. This modern construction provides excellent chemical resistance to a wide variety of corrosive chemicals and is practically impervious to most chemicals. The light weight construction and unique Airfoil profile shape allows operation at higher speeds up to Class III construction without distortion or bond separation and allows pressures up to 18 inches WG.

FAN SELECTION AND PERFORMANCE

The Performance Tables shown in this brochure are based on unobstructed air flows into the inlet of the fan. During installation, the fan inlet conditions should be designed to allow the air to enter the housing resembling a fan with an unobstructed inlet. The fan performance can be adversely effected by poor inlet conditions creating uncontrolled spin, unequal air loading or imbalance. Elbows located directly at the inlet should be avoided and properly sized inlet boxes or straightening vanes should be utilized. It is good practice to include the equivalent of two duct diameters prior to the fan inlet.

The addition of a short outlet stack will improve the overall performance of the fan. Testing has shown up to a 7% improvement in performance by the addition of an outlet stack.

The BI Airfoil wheel blades provides non-overloading performance. This allows the brake horsepower to level off at a point where motors can be economically selected so they will not overload if the system pressure drops.

The brake horsepower shown in the performance tables does not include the drive or belt losses. Normally, the belt drive losses vary from 5% to 20% of the motor horsepower output.

The estimated belt loss can be obtained using the table located on page 4.

The ultimate measure of fan performance is operating efficiency. High efficiency means lower operating cost throughout the life of the equipment. The HPCA Airfoil design provides static efficiencies up to 83%. This feature will provide a tremendous energy savings.

Fourteen sizes are available from models HPCA 2000 to 7300. Harrington recommends using the flat blade backward inclined model HPC series, on fans below the HPCA 2000 model, since the merits of airfoil are lost in smaller fan sizes.

All HEE-Duall HPCA series Centrifugal Airfoil fans conform to ASTM D4167 standard specifications for fiber reinforced plastic fans and blowers. For applications requiring an additional corrosion barrier, Harrington recommends an interior veil on the fan scroll providing a resin-rich layer.

All wheels are statically and dynamically balanced on electronically controlled balancing machines. The necessary weight adjustments are made by removing excess material, or by permanently bonding fiberglass material to the wheel. After completed fan assembly, the fans are test run at the customers operating speed to locate and correct any minor misalignment that may have occurred during assembly. They are checked for proper bearing operation.

Sound information is available from HEE-Duall. This data is the result of laboratory testing based on AMCA standard 300 and processed by the procedures shown in AMCA Bulletin 301. The AMCA Certified ratings seal applies to air performance only.

The chemical and structural properties of fiberglass are excellent. FRP fans moving air at higher temperatures will usually effect the chemical resistance. In addition, the maximum safe speeds should be de-rated using the following table:

MAXIMUM SAFE SPEED CORRECTION FACTORS

Temperature (°F)	70	100	150	175	200
Factor	1.0	1.0	.95	.93	.91

To obtain the new maximum safe speed when temperature is involved, multiply the maximum safe speed as listed for each fan size by the correction factor.

Each of the following capacity tables include a CFM, static pressure, outlet velocity and the corresponding RPM and BHP. If capacities are not at standard conditions (70 degrees F at sea level) or at standard density of .075 pounds/Cu.Ft., correction factors must be applied to static pressure and BHP. The most efficient fan operation above the solid black line represents peak efficiency and the most quiet performance.

Fan performance is shown for Class I, II and III. The maximum safe tip speed for each construction is 10,000, 14,000 and 17,000 feet per minute. The capacity table also includes the maximum fan PRM for each Class construction

ACCESSORIES AND OPTIONS AVAILABLE

ACCESS DOORS are necessary for wheel inspection and maintenance on all units which utilize a discharge stack. All access doors are bolted to the housing and include neoprene gaskets.

ARRANGEMENT 1,9, AND 8 are available per your requirements. To receive additional information on an ARRANGEMENT 8 Direct Drive fan, request our ARRANGEMENT 8 Bulletin.

BELT AND SHAFT GUARD can be used when fans are installed indoors and will cover drives, belts, bearings and fan shafts. Both guards can be easily removed for access to the drives and bearings.

DISCONNECT SWITCH can be mounted and wired or can be shipped loose for field installation. Nema 3R, 1 or 4X are available.

EXTENDED LUBE LINES can be provided allowing a convenient method of lubricating the bearings.

FLANGED INLET is permanently bonded to the attaching ring and provides a continuous surface. Drilling is available as an option. Dimensions and drilling conforms to PS 15-69 and ASTM D3982-92.

FLEXIBLE CONNECTIONS are supplied with stainless steel draw bands and are fabricated from a material suitable for service with corrosives contained in the air stream.

GRAPHITE IMPREGNATION is used for applications which handle potentially explosive fumes or gases. The interior air stream surface is coated with a graphite rich resin coat and grounding strap secured to the steel base. During installation, the steel fan frame should be grounded.

GRAVITY DAMPERS constructed of fiberglass prevent rain from entering the inlet duct work and foreign objects from entering the fan wheel during shut down periods.

INLET BOXES are fabricated of FRP and provide a convenient means of locating an inlet 90 degrees to the fan inlet with predictable entry losses.

INLET OR OUTLET SCREENS can be installed to offer protection on the inlet side from the rotating fan wheel or on the outlet to prevent foreign objects from entering the wheel housing.

INLET VANE AND OUTLET DAMPERS fabricated of FRP or 316 stainless steel provide a means of volume control with corrosion resistance. Dampers can be motorized.

INTERIOR VEIL is standard on the fan wheel blades and the back plate. If an additional barrier is required because of severe chemical service application on the fan housing interior, a veil interior can be provided on the fan housing as an option. However, the fan housing already includes a resin rich and smooth coat without the use of a surface veil.

MOTORS are available in many different enclosure types (TEFC, ODP, High Efficiency, TEEP, etc.) and voltages. Two speed motors can be supplied or Harrington can mount a customer supplied motors. TEFC Inverter Duty motors are also available.

OUTLET TRANSITIONS are match drilled to the fan outlet flange and allow the installation of a round duct.

STACKS are available using fiberglass construction and can be built to order to include seismic and wind load calculations.

STRUCTURAL BASES come with a choice of seismic restraints. Concrete inertia bases are also available.

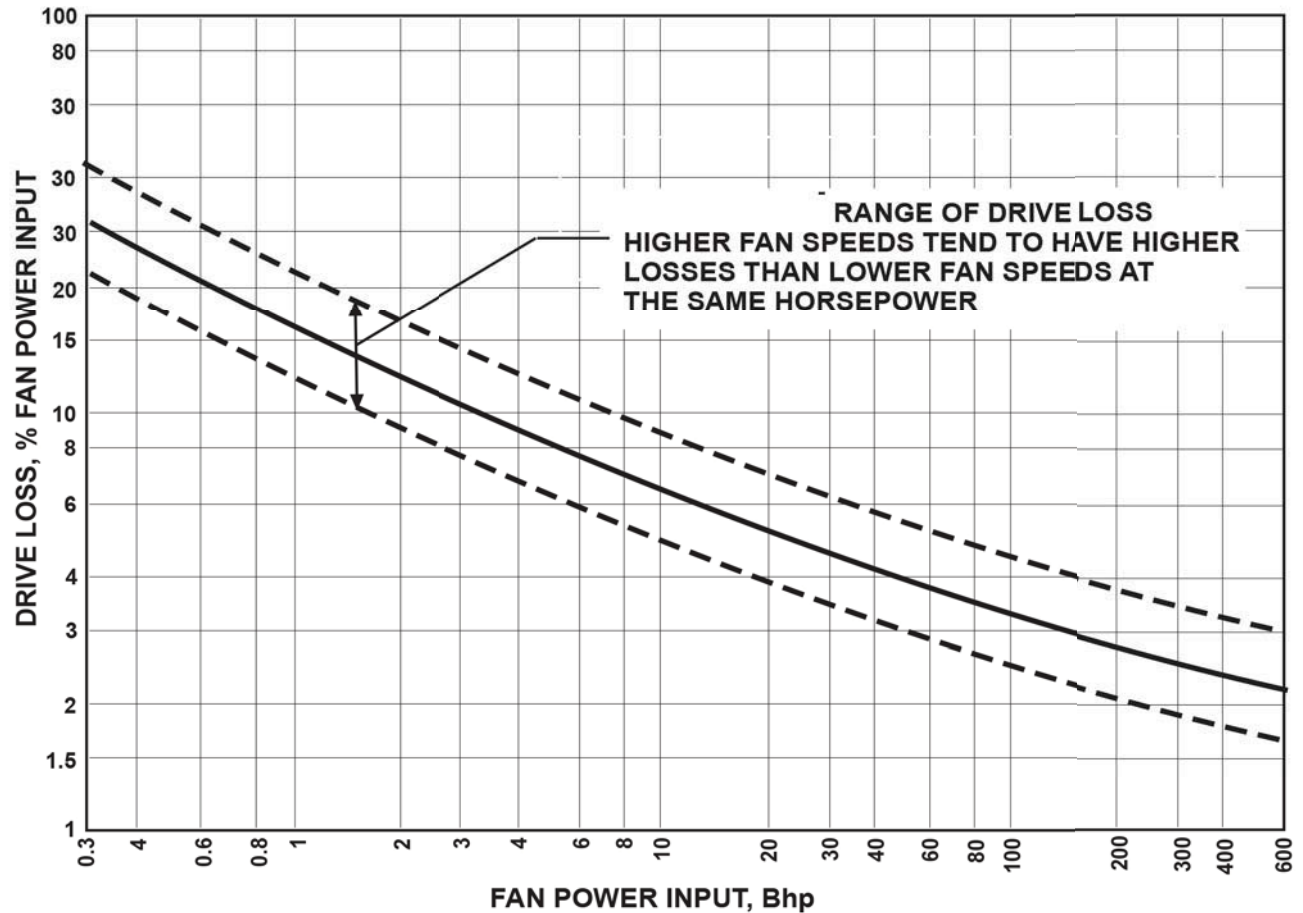
VARIABLE PITCH DRIVES are provided and will allow a ten percent adjustment of the fan RPM in either direction.

VIBRATION ISOLATORS are available in rubber or spring.

VITON SHAFT SEAL material offering superior chemical resistance can be utilized and seals against the fiberglass shaft sleeve.

WEATHER COVERS are fabricated of fiberglass reinforced plastics and are used when the fan is located outdoors. These covers are designed to provide protection of the motor, drives, shaft and bearings.

316 STAINLESS STEEL or HASTELLOY SHAFTS are available and will provide an extra degree of corrosion resistance when the fans are installed in a harsh chemical environment.



EXAMPLE:

- Fan power input, $H = 12.5$ Bhp (from performance tables)
- From curve, drive loss = 6%
- Drive loss, $H_L = .06 \times 12.5 = .75$ hp
- Motor power output, $H_{mo} = 12.5 + .75 = 13.25$ hp

(Based on data obtained from AMCA Applications Guide - Field Performance Measurement Publ.203)

AIR POLLUTION CONTROL

Fan Performance Data

SWSI BI AF

Fiberglass Centrifugal Fan

Wheel - 21.125 In. Diameter

Wheel Circumference - 5.53 Ft.

HPCA 2000 SWSI

CLASSES I, II, III

Backward Inclined - Airfoil

Outlet Area - 2.36 Sq. Ft.

1808 RPM Class I	2531 RPM Class II	3074 RPM Class III
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$$\text{Maximum BHP} = \left(\frac{\text{RPM}}{1000} \right)^3 \times .74$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5 RPM BHP	1 RPM BHP	1.5 RPM BHP	2 RPM BHP	2.5 RPM BHP	3 RPM BHP	3.5 RPM BHP	4 RPM BHP	4.5 RPM BHP	5 RPM BHP
1000	424	542 0.11									
1100	466	554 0.12									
1200	508	570 0.13	747 0.26								
1300	551	588 0.15	755 0.28								
1400	593	605 0.16	764 0.3								
1500	635	623 0.18	776 0.32	917 0.49							
1600	678	641 0.19	791 0.34	925 0.52							
1700	720	659 0.21	807 0.37	934 0.54	1057 0.75						
1800	762	678 0.23	824 0.4	946 0.57	1065 0.78						
1900	805	696 0.25	842 0.43	960 0.61	1073 0.81	1182 1.04					
2000	847	715 0.27	860 0.46	975 0.65	1083 0.85	1189 1.09	1290 1.34				
2200	932	753 0.32	895 0.53	1009 0.73	1109 0.94	1207 1.17	1304 1.43	1396 1.7			
2400	1017	793 0.37	932 0.6	1044 0.82	1141 1.05	1231 1.28	1321 1.54	1410 1.82	1495 2.11		
2600	1101	834 0.42	968 0.67	1080 0.92	1176 1.16	1261 1.4	1345 1.66	1428 1.94	1510 2.24	1589 2.56	1666 2.89
2800	1186	877 0.49	1006 0.75	1116 1.02	1211 1.28	1296 1.55	1374 1.81	1452 2.09	1529 2.39	1605 2.71	1680 3.05
3000	1271	922 0.56	1044 0.84	1152 1.13	1246 1.41	1331 1.69	1406 1.97	1480 2.26	1553 2.56	1625 2.87	1696 3.21
3200	1356	967 0.65	1083 0.94	1189 1.24	1282 1.55	1366 1.85	1442 2.15	1513 2.45	1582 2.75	1649 3.07	1717 3.4
3400	1440	1012 0.74	1122 1.04	1226 1.36	1319 1.69	1402 2.01	1478 2.33	1548 2.65	1614 2.97	1678 3.29	1742 3.63
3600	1525	1058 0.83	1163 1.15	1264 1.49	1355 1.84	1438 2.18	1513 2.52	1583 2.86	1649 3.2	1711 3.53	1772 3.87
3800	1610	1104 0.94	1206 1.28	1303 1.63	1393 2	1474 2.36	1549 2.72	1619 3.08	1684 3.44	1746 3.79	1805 4.14
4000	1694	1151 1.06	1249 1.41	1342 1.78	1430 2.16	1511 2.54	1585 2.92	1654 3.31	1719 3.68	1781 4.06	1839 4.43
4500	1906	1271 1.4	1361 1.81	1443 2.2	1526 2.62	1604 3.05	1677 3.48	1745 3.91	1809 4.34	1870 4.77	1927 5.19
5000	2118	1392 1.82	1475 2.27	1553 2.71	1626 3.15	1700 3.62	1771 4.1	1837 4.58	1900 5.06	1960 5.53	2017 6.01
5500	2330	1515 2.32	1591 2.81	1665 3.3	1732 3.78	1799 4.28	1867 4.8	1932 5.32	1993 5.85	2051 6.38	2108 6.9
6000	2542	1639 2.91	1710 3.45	1778 3.98	1843 4.52	1904 5.03	1966 5.58	2028 6.15	2088 6.72	2145 7.3	2200 7.87
6500	2753	1764 3.6	1830 4.18	1893 4.76	1956 5.34	2014 5.91	2070 6.48	2128 7.07	2185 7.69	2241 8.3	2295 8.93
7000	2965	1889 4.39	1951 5.03	2011 5.65	2070 6.27	2126 6.9	2180 7.51	2232 8.11	2285 8.75	2339 9.41	2391 10.1
7500	3177	2015 5.31	2073 5.99	2130 6.65	2185 7.32	2240 7.99	2292 8.66	2341 9.3	2390 9.96	2439 10.6	2489 11.3
8000	3389	2142 6.35	2197 7.06	2251 7.78	2303 8.48	2354 9.2	2404 9.92	2453 10.6	2499 11.3	2544 12	2590 12.7
8500	3601	2268 7.52	2321 8.27	2372 9.04	2422 9.79	2470 10.5	2518 11.3	2565 12.1	2610 12.8	2654 13.5	2696 14.3
9000	3812	2395 8.85	2446 9.62	2494 10.4	2542 11.2	2588 12	2633 12.8	2679 13.6	2723 14.5	2765 15.2	2806 16
9500	4024	2522 10.3	2571 11.1	2617 12	2662 12.8	2707 13.7	2750 14.5	2793 15.4	2836 16.2	2877 17.1	2918 17.9
10000	4236	2650 12	2697 12.8	2741 13.7	2784 14.6	2827 15.5	2868 16.3	2909 17.2	2950 18.1	2991 19	3030 19.9
10500	4448	2778 13.8	2823 14.6	2865 15.5	2906 16.5	2947 17.4	2987 18.4	3027 19.3	3065 20.2		
11000	4660	2907 15.8	2949 16.6	2990 17.6	3029 18.6	3068 19.6					
11500	4871	3035 18									

VOL CFM	VEL FPM	6.0 RPM BHP	7 RPM BHP	8 RPM BHP	9 RPM BHP	10 RPM BHP	11 RPM BHP	12 RPM BHP	13 RPM BHP	14 RPM BHP	16 RPM BHP
3000	1271	1835 3.94									
3200	1356	1851 4.14	1979 4.92								
3400	1440	1869 4.35	1995 5.15	2114 5.98							
3600	1525	1892 4.6	2011 5.39	2129 5.24	2242 7.13						
3800	1610	1919 4.88	2033 5.66	2146 5.51	2257 7.42	2364 8.36					
4000	1694	1949 5.18	2058 5.97	2166 5.81	2273 7.72	2379 8.68	2480 9.67	2580 10.7			
4500	1906	2035 6.03	2136 6.87	2233 7.73	2329 8.63	2425 9.58	2520 10.6	2615 11.7	2707 12.7	2797 13.9	
5000	2118	2124 6.96	2223 7.9	2316 8.83	2405 9.76	2492 10.7	2578 11.7	2665 12.8	2751 13.9	2836 15	3004 17.4
5500	2330	2212 7.95	2312 8.99	2404 10	2491 11.1	2574 12.1	2654 13.1	2733 14.2	2812 15.3	2891 16.4	3047 18.8
6000	2542	2304 9.01	2401 10.2	2493 11.3	2579 12.4	2661 13.6	2740 14.7	2815 15.8	2888 16.9	2961 18.1	
6500	2753	2397 10.2	2492 11.4	2583 12.6	2668 13.9	2750 15.1	2828 16.3	2902 17.6	2974 18.8	3044 20	
7000	2965	2491 11.4	2585 12.8	2674 14.1	2758 15.4	2839 16.8	2917 18.1	2991 19.4	3062 20.7		
7500	3177	2586 12.8	2679 14.2	2766 15.6	2850 17.1	2930 18.5	3006 19.9				
8000	3389	2684 14.2	2774 15.8	2860 17.3	2943 18.8	3021 20.3					
8500	3601	2784 15.8	2871 17.4	2956 19.1	3037 20.7						
9000	3812	2887 17.6	2970 19.3	3052 21							

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Power rating BHP does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

The most efficient fan selection appears above the solid line.

AIR POLLUTION CONTROL

Fan Performance Data

SWSI BI AF

Fiberglass Centrifugal Fan

Wheel - 23.5 In. Diameter

Wheel Circumference - 6.15 Ft.

HPCA 2225 SWSI

CLASSES I, II, III

Backward Inclined - Airfoil

Outlet Area - 2.96 Sq. Ft.

1625 RPM Class I 2276 RPM Class II 2763 RPM Class III

$$\text{Maximum BHP} = \left(\frac{\text{RPM}}{1000} \right)^3 \times 1.48$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5 RPM BHP	1 RPM BHP	1.5 RPM BHP	2 RPM BHP	2.5 RPM BHP	3 RPM BHP	3.5 RPM BHP	4 RPM BHP	4.5 RPM BHP	5 RPM BHP
1200	405	459 0.12									
1300	439	467 0.13									
1400	472	476 0.14	641 0.29								
1500	506	485 0.15	642 0.31								
1600	540	494 0.16	645 0.32								
1700	574	504 0.18	650 0.34								
1800	607	515 0.19	657 0.36	785 0.56							
1900	641	525 0.21	665 0.38	788 0.58							
2000	675	536 0.22	671 0.4	792 0.6							
2100	709	547 0.24	684 0.42	797 0.63	907 0.86						
2200	742	558 0.25	693 0.45	804 0.65	910 0.89						
2300	776	570 0.27	703 0.47	812 0.69	914 0.92	1014 1.19					
2400	810	581 0.29	713 0.5	821 0.72	919 0.96	1015 1.23					
2500	843	593 0.31	723 0.53	831 0.75	925 0.99	1019 1.26	1110 1.55				
2600	877	605 0.33	734 0.55	840 0.79	933 1.03	1023 1.3	1112 1.6				
2700	911	616 0.35	744 0.58	849 0.82	942 1.07	1028 1.34	1115 1.64	1199 1.96			
2800	945	628 0.37	755 0.61	859 0.86	951 1.12	1035 1.39	1118 1.69	1201 2.01			
2900	978	641 0.39	766 0.64	869 0.9	960 1.16	1043 1.44	1123 1.74	1203 2.06	1282 2.4		
3000	1012	653 0.41	777 0.68	879 0.94	970 1.21	1052 1.49	1129 1.79	1207 2.12	1284 2.46	1360 2.82	
3200	1080	678 0.46	799 0.74	901 1.03	989 1.31	1070 1.6	1144 1.91	1217 2.23	1290 2.58	1362 2.95	1433 3.33
3400	1147	705 0.52	823 0.82	922 1.11	1009 1.41	1088 1.72	1162 2.04	1231 2.36	1300 2.71	1368 3.08	1436 3.47
3600	1215	733 0.58	846 0.89	943 1.21	1030 1.53	1108 1.84	1181 2.17	1249 2.51	1313 2.85	1378 3.23	1443 3.62
3800	1282	761 0.64	870 0.97	966 1.31	1051 1.64	1128 1.98	1199 2.32	1267 2.67	1331 3.02	1392 3.39	1453 3.78
4000	1350	790 0.71	894 1.06	988 1.41	1072 1.76	1149 2.11	1219 2.47	1285 2.83	1349 3.2	1409 3.58	1467 3.96
4500	1518	865 0.92	956 1.29	1047 1.7	1128 2.09	1202 2.48	1271 2.88	1335 3.28	1396 3.68	1454 4.09	1511 4.51
5000	1687	942 1.18	1023 1.57	1107 2.01	1186 2.46	1257 2.89	1324 3.33	1387 3.77	1447 4.21	1503 4.65	1557 5.1
5500	1856	1021 1.49	1094 1.9	1169 2.36	1245 2.86	1315 3.35	1380 3.83	1441 4.3	1500 4.79	1555 5.28	1608 5.76
6000	2024	1100 1.84	1169 2.29	1236 2.77	1306 3.3	1374 3.84	1438 4.38	1497 4.89	1554 5.41	1608 5.94	1661 6.47
7000	2362	1261 2.73	1322 3.27	1379 3.79	1437 4.36	1497 4.96	1557 5.59	1614 6.22	1668 6.85	1720 7.45	1770 8.06
8000	2699	1423 3.89	1479 4.5	1530 5.1	1580 5.71	1631 6.35	1682 7.03	1736 7.74	1787 8.46	1837 9.19	1886 9.91
9000	3037	1588 5.33	1638 6.04	1685 6.74	1731 7.39	1775 8.08	1820 8.8	1866 9.55	1912 10.3	1959 11.1	2005 11.9
10000	3374	1753 7.11	1799 7.93	1843 8.69	1885 9.46	1925 10.2	1965 10.9	2006 11.7	2047 12.6	2088 13.4	2130 14.3
11000	3711	1920 9.27	1961 10.2	2002 11	2041 11.9	2079 12.7	2116 13.5	2152 14.4	2189 15.2	2226 16.1	2263 17
12000	4049	2087 11.8	2125 12.9	2163 13.8	2200 14.7	2235 15.7	2270 16.6	2304 17.4	2337 18.3	2370 19.3	2404 20.2
13000	4386	2254 14.9	2291 16	2325 17.1	2360 18	2394 19	2426 20	2458 21	2489 22	2520 22.9	2551 23.9

VOL CFM	VEL FPM	6.0 RPM BHP	7 RPM BHP	8 RPM BHP	9 RPM BHP	10 RPM BHP	11 RPM BHP	12 RPM BHP	13 RPM BHP	15 RPM BHP	17 RPM BHP
3400	1147										
3600	1215	1571 4.45									
3800	1282	1576 4.63	1696 5.52								
4000	1350	1583 4.81	1699 5.73	1813 6.68							
4500	1518	1616 5.36	1720 6.27	1823 7.27	1925 8.3	2027 9.37					
5000	1687	1661 6.02	1758 6.96	1851 7.93	1944 8.99	2038 10.1	2129 11.3	2221 12.4			
5500	1856	1708 6.74	1804 7.75	1893 8.77	1978 9.82	2063 10.9	2148 12.1	2233 13.3			
6000	2024	1759 7.53	1851 8.6	1939 9.69	2023 10.8	2103 11.9	2180 13.1	2258 14.3	2336 15.6	2491 18.3	2643 21.1
7000	2362	1865 9.28	1955 10.5	2038 11.8	2118 13	2195 14.3	2270 15.5	2343 16.8	2412 18.1	2546 20.8	2679 23.7
8000	2699	1977 11.3	2063 12.7	2144 14.1	2223 15.5	2297 16.9	2369 18.3	2438 19.7	2505 21.2	2636 24.1	2758 27.1
9000	3037	2094 13.6	2177 15.2	2255 16.7	2331 18.3	2403 19.9	2474 21.4	2542 23	2607 24.6	2731 27.8	
10000	3374	2214 16.1	2294 17.6	2371 19.7	2444 21.4	2515 23.1	2582 24.9	2648 26.6	2712 28.4		
11000	3711	2339 18.9	2416 20.9	2490 22.9	2561 24.9	2630 26.8	2696 28.7	2760 30.6			
12000	4049	2472 22.2	2541 24.2	2612 26.4	2681 28.6	2748 30.7					
13000	4386	2613 26	2676 28.1	2739 30.3							

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Power rating BHP does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

The most efficient fan selection appears above the solid line.

AIR POLLUTION CONTROL

Fan Performance Data

SWSI BI AF

Fiberglass Centrifugal Fan

Wheel - 25.875 In. Diameter Wheel Circumference - 6.77 Ft.

Maximum RPM Speed For Class I, II and III

1476 RPM Class I	2067 RPM Class II	2510 RPM Class III
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HPCA 2450 SWSI

CLASSES I, II, III

Backward Inclined - Airfoil

Outlet Area - 3.55 Sq. Ft.

$$\text{Maximum BHP} = \left(\frac{\text{RPM}}{1000} \right)^3 \times 2.39$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5 RPM BHP	1 RPM BHP	1.5 RPM BHP	2 RPM BHP	2.5 RPM BHP	3 RPM BHP	3.5 RPM BHP	4 RPM BHP	4.5 RPM BHP	5 RPM BHP
1400	395										
1500	423										
1600	451										
1700	479										
1800	508										
1900	536	466 0.18									
2000	564	475 0.19									
2100	592	483 0.2									
2200	620	491 0.21									
2300	649	498 0.22									
2400	677	503 0.23									
2500	705	507 0.24									
2600	733	511 0.25	651 0.48								
2700	761	514 0.26	660 0.5								
2800	790	519 0.27	669 0.53								
2900	818	525 0.28	677 0.55								
3000	846	533 0.29	686 0.57								
3500	987	582 0.38	716 0.68	825 0.99							
4000	1128	635 0.49	736 0.77	863 1.17	950 1.51						
4500	1269	690 0.62	777 0.91	884 1.31	989 1.75	1064 2.12	1128 2.48				
5000	1410	745 0.78	828 1.1	908 1.45	1015 1.95	1104 2.43	1172 2.84	1231 3.24			
5500	1551	802 0.97	881 1.31	951 1.67	1033 2.12	1131 2.69	1211 3.21	1274 3.67	1329 4.11	1381 4.54	
6000	1692	859 1.18	935 1.56	1001 1.94	1067 2.36	1148 2.89	1238 3.53	1312 4.09	1371 4.6	1424 5.08	1473 5.56
6500	1833	918 1.43	990 1.85	1053 2.25	1112 2.67	1176 3.15	1255 3.77	1338 4.45	1408 5.08	1465 5.64	1516 6.17
7000	1974	977 1.72	1046 2.17	1107 2.6	1163 3.04	1218 3.51	1280 4.06	1355 4.74	1433 5.48	1500 6.16	1556 6.78
8000	2256	1096 2.4	1159 2.92	1217 3.43	1270 3.93	1318 4.43	1366 4.95	1416 5.52	1472 6.17	1538 6.95	1608 7.8
9000	2538	1217 3.26	1275 3.85	1329 4.43	1379 5	1426 5.56	1469 6.12	1512 6.69	1555 7.3	1600 7.95	1650 8.69
10000	2820	1340 4.31	1393 4.98	1443 5.63	1490 6.27	1535 6.89	1577 7.51	1617 8.14	1655 8.77	1693 9.42	1732 10.1
11000	3102	1463 5.58	1512 6.32	1559 7.04	1604 7.75	1646 8.45	1686 9.14	1725 9.82	1762 10.51	1797 11.2	1832 11.9
12000	3384	1587 7.09	1633 7.9	1677 8.69	1719 9.48	1759 10.25	1798 11.01	1835 11.76	1870 12.51	1905 13.25	1938 14
13000	3666	1712 8.87	1755 9.74	1796 10.6	1835 11.46	1873 12.31	1910 13.14	1946 13.96	1980 14.78	2014 15.59	2046 16.4
14000	3948	1837 10.9	1877 11.86	1916 12.8	1953 13.73	1989 14.65	2024 15.55	2059 16.45	2092 17.33	2124 18.21	2155 19.09
15000	4230	1963 13.3	2001 14.29	2037 15.3	2072 16.3	2106 17.29	2140 18.27	2173 19.24	2204 20.19	2235 21.14	2266 22.09
16000	4512	2089 16	2124 17.05	2159 18.12	2192 19.19	2225 20.25	2257 21.31	2288 22.35	2319 23.38	2348 24.4	2378 25.42

VOL CFM	VEL FPM	6 RPM BHP	7 RPM BHP	8 RPM BHP	9 RPM BHP	10 RPM BHP	11 RPM BHP	12 RPM BHP	13 RPM BHP	14 RPM BHP
5000	1410									
5500	1551									
6000	1692									
6500	1833	1607 7.2								
7000	1974	1651 7.93	1734 9.04							
8000	2256	1727 9.38	1819 10.75	1899 12.04	1972 13.32					
9000	2538	1768 10.5	1885 12.35	1978 14	2057 15.51	2128 16.97	2194 18.4	2256 19.83		
10000	2820	1817 11.6	1919 13.51	2030 15.63	2127 17.63	2207 19.42	2278 21.1	2343 22.72	2404 24.32	2462 25.91
11000	3102	1902 13.4	1977 15	2065 16.94	2165 19.21	2263 21.54	2348 23.69	2421 25.66	2487 27.52	
12000	3384	2002 15.5	2066 17.12	2133 18.86	2209 20.83	2296 23.15	2389 25.68	2477 28.2		
13000	3666	2107 18	2166 19.66	2225 21.38	2286 23.22	2352 25.23	2427 27.54	2510 30.14		
14000	3948	2215 20.8	2271 22.57	2326 24.34	2381 26.18	2437 28.11	2495 30.18			
15000	4230	2324 24	2379 25.83	2432 27.7	2483 29.59					
16000	4512	2434 27.4	2488 29.43							

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Power rating BHP does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

The most efficient fan selection appears above the solid line.

AIR POLLUTION CONTROL

Fan Performance Data

SWSI BI AF

Fiberglass Centrifugal Fan

Wheel - 28.5 In. Diameter

Wheel Circumference - 7.46 Ft.

HPCA 2700 SWSI

CLASSES I, II, III

Backward Inclined - Airfoil

Outlet Area - 4.13 Sq. Ft.

1340 RPM Class I	1876 RPM Class II	2278 RPM Class III	
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$$\text{Maximum BHP} = \left(\frac{\text{RPM}}{1000} \right)^3 \times 3.61$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5 RPM BHP	1 RPM BHP	1.5 RPM BHP	2 RPM BHP	2.5 RPM BHP	3 RPM BHP	3.5 RPM BHP	4 RPM BHP	4.5 RPM BHP	5 RPM BHP
2000	484	393 0.2									
2200	532	403 0.22	530 0.44								
2400	581	413 0.24	537 0.48								
2600	629	424 0.27	545 0.51	646 0.79							
2800	677	436 0.29	554 0.55	652 0.84							
3000	726	447 0.32	564 0.6	660 0.89	746 1.22						
3200	774	459 0.35	574 0.64	668 0.95	752 1.28						
3400	822	472 0.38	585 0.69	677 1.01	759 1.35	835 1.72					
3600	871	486 0.41	596 0.74	687 1.07	767 1.42	842 1.8	911 2.21				
3800	919	501 0.45	607 0.79	697 1.14	776 1.5	849 1.89	917 2.3				
4000	968	516 0.49	618 0.84	707 1.21	785 1.58	857 1.98	924 2.4	988 2.84			
4500	1088	555 0.6	647 0.98	735 1.39	811 1.8	879 2.23	943 2.66	1005 3.13	1063 3.61	1119 4.12	
5000	1209	597 0.74	681 1.14	763 1.58	838 2.04	905 2.5	967 2.97	1025 3.45	1081 3.95	1135 4.48	1187 5.02
5500	1330	639 0.9	718 1.32	792 1.79	865 2.29	932 2.8	992 3.3	1049 3.82	1103 4.35	1155 4.88	1205 5.45
6000	1451	682 1.08	756 1.53	825 2.03	893 2.56	959 3.1	1019 3.66	1075 4.21	1123 4.77	1178 5.34	1226 5.92
6500	1572	726 1.29	796 1.77	862 2.29	924 2.85	987 3.43	1047 4.02	1102 4.62	1154 5.22	1203 5.83	1250 6.45
7000	1693	770 1.52	838 2.05	899 2.59	958 3.17	1016 3.78	1075 4.41	1130 5.05	1181 5.7	1229 6.34	1276 7
7500	1814	815 1.79	880 2.35	938 2.92	994 3.53	1049 4.17	1103 4.82	1158 5.5	1209 6.19	1257 6.88	1302 7.57
8000	1935	861 2.09	923 2.69	979 3.29	1032 3.92	1084 4.58	1134 5.27	1185 5.98	1236 6.6	1284 7.44	1330 8.18
8500	2056	908 2.42	966 3.06	1020 3.7	1071 4.35	1120 5.04	1168 5.76	1216 6.49	1264 7.24	1312 8.01	1357 8.79
9000	2177	954 2.79	1010 3.47	1062 4.14	1111 4.82	1158 5.53	1204 6.28	1249 7.04	1294 7.83	1340 8.62	1386 9.44
9500	2298	1001 3.2	1054 3.92	1105 4.63	1152 5.34	1197 6.07	1241 6.84	1285 7.63	1327 8.45	1370 9.28	1413 10.1
10000	2419	1048 3.66	1098 4.41	1148 5.16	1193 5.91	1237 6.66	1279 7.45	1321 8.27	1362 9.11	1403 9.97	1443 10.8
11000	2661	1143 4.69	1189 5.52	1235 6.35	1278 7.17	1319 7.99	1359 8.83	1397 9.68	1436 10.6	1473 11.5	1510 12.4
12000	2903	1239 5.9	1282 6.82	1323 7.73	1365 8.63	1403 9.52	1441 10.4	1477 11.3	1513 12.3	1548 13.2	1583 14.2
13000	3144	1335 7.31	1375 8.33	1413 9.31	1452 10.3	1489 11.3	1525 12.2	1559 13.2	1593 14.2	1626 15.2	1658 16.2
14000	3386	1431 8.95	1469 10.1	1505 11.1	1541 12.2	1577 13.2	1611 14.3	1644 15.3	1676 16.4	1707 17.4	1738 18.5
15000	3628	1528 10.8	1563 12.1	1598 13.2	1631 14.3	1665 15.34	1698 16.6	1729 17.7	1760 18.8	1790 19.9	1819 21.1
16000	3870	1625 13	1659 14.3	1691 15.5	1723 16.7	1753 17.9	1785 19.1	1816 20.3	1843 21.5	1874 22.7	1903 23.9
17000	4112	1722 15.4	1754 16.8	1785 18.1	1815 19.4	1844 20.7	1874 21.9	1904 23.2	1932 24.5	1960 25.8	1987 27
18000	4354	1820 18.1	1851 19.5	1879 21	1908 22.3	1936 23.7	1963 25.1	1992 26.4	2020 27.8	2047 29.1	2073 30.5
19000	4596	1917 21.1	1947 22.6	1975 24.2	2002 25.6	2029 27.1	2055 28.5	2081 29.9	2108 31.4	2134 32.8	2160 34.2
20000	4838	2015 24.4	2043 26	2070 27.7	2096 29.3	2122 30.7	2147 32.3	2172 33.8	2197 35.3	2222 36.8	2247 38.3
21000	5079	2113 28.1	2140 29.8	2166 31.5	2191 33.2	2215 34.8	2240 36.4	2263 37.9			

VOL CFM	VEL FPM	6.0 RPM BHP	7 RPM BHP	8 RPM BHP	9 RPM BHP	10 RPM BHP	11 RPM BHP	12 RPM BHP	14 RPM BHP	16 RPM BHP	18 RPM BHP
5500	1330	1301 6.63	1392 7.88								
6000	1451	1319 7.13	1408 8.42	1492 9.77							
6500	1572	1340 7.69	1426 9.01	1508 10.4	1586 11.8						
7000	1693	1364 8.32	1447 9.67	1526 11.1	1603 12.6	1677 14.1	1748 15.7				
7500	1814	1389 8.79	1470 10.4	1547 11.8	1622 13.3	1694 14.9	1764 16.5	1831 18.2			
8000	1935	1415 9.65	1495 11.1	1571 12.7	1643 14.2	1713 15.8	1782 17.5	1848 19.2	1975 22.7		
8500	2056	1442 10.4	1521 11.9	1595 13.5	1667 15.1	1735 16.8	1802 18.5	1866 20.2	1991 23.8	2110 27.7	
9000	2177	1470 11.1	1548 12.8	1621 14.4	1691 16.1	1759 17.8	1824 19.5	1887 21.3	2009 25	2126 28.9	2237 33
9500	2298	1496 11.8	1576 13.6	1648 15.4	1717 17.1	1784 18.9	1848 20.7	1909 22.5	2029 26.3	2144 30.2	2253 34.4
10000	2419	1526 12.6	1603 14.5	1676 16.3	1744 18.2	1809 20	1872 21.9	1934 23.8	2050 27.6	2162 31.6	2271 35.8
11000	2661	1584 14.3	1659 16.3	1731 18.3	1799 20.3	1863 22.4	1925 24.4	1984 26.4	2098 30.6	2206 34.8	
12000	2903	1651 16.2	1718 18.3	1787 20.4	1855 22.6	1919 24.8	1980 27	2039 29.3	2150 33.7	2255 38.2	
13000	3144	1723 18.4	1786 20.6	1848 22.8	1911 25.1	1975 27.4	2035 29.8	2094 32.2	2204 37		
14000	3386	1798 20.7	1858 23	1916 25.4	1974 27.8	2032 30.3	2091 32.7	2150 35.3	2259 40.4		
15000	3628	1877 23.4	1933 25.7	1989 28.2	2043 30.8	2097 33.3	2151 35.9	2206 38.6			
16000	3870	1957 26.3	2011 28.8	2064 31.3	2116 34	2168 36.7	2218 39.4	2269 42.2			
17000	4112	2040 29.6	2091 32.2	2141 34.8	2191 37.5	2241 40.3					
18000	4354	2124 33.1	2173 35.9	2221 38.6	2269 41.4						

Performance shown is for installation type D - Ducted inlet, Ducted outlet.
Power rating BHP does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.
The most efficient fan selection appears above the solid line.

AIR POLLUTION CONTROL

Fan Performance Data

SWSI BI AF Fiberglass Centrifugal Fan

Wheel - 31.687 In. Diameter Wheel Circumference - 8.29 Ft.

HPCA 3000 SWSI CLASSES I, II, III

Backward Inclined - Airfoil
Outlet Area - 5.11 Sq. Ft.

1205 RPM Class I	1688 RPM Class II	2049 RPM Class III
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$$\text{Maximum BHP} = \left(\frac{\text{RPM}}{1000} \right)^3 \times 6.13$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5		1		1.5		2		2.5		3		3.5		4		4.5		5	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	EHP	RPM	BHP	RPM	BHP
2400	470	366	0.25																		
2600	509	375	0.27	486	0.53																
2800	548	384	0.3	491	0.56																
3000	587	394	0.33	499	0.61	591	0.93														
3500	685	421	0.41	522	0.73	604	1.06	683	1.44												
4000	783	450	0.5	545	0.85	626	1.23	696	1.61	766	2.04										
4500	881	478	0.6	571	1	649	1.41	718	1.83	780	2.26	841	2.74								
5000	978	502	0.69	598	1.16	673	1.61	741	2.08	801	2.54	856	3.02	912	3.53						
5500	1076	529	0.8	627	1.35	698	1.83	763	2.33	824	2.85	879	3.36	929	3.87	980	4.43	1030	5.02	1080	5.65
6000	1174	561	0.93	657	1.56	725	2.07	788	2.6	847	3.16	901	3.72	952	4.28	999	4.85	1045	5.43	1091	6.06
6500	1272	594	1.09	682	1.74	754	2.35	814	2.91	871	3.5	924	4.1	975	4.71	1021	5.31	1065	5.92	1107	6.53
7000	1370	628	1.28	707	1.92	784	2.65	841	3.24	896	3.86	948	4.5	997	5.15	1044	5.81	1088	6.46	1130	7.11
7500	1468	663	1.49	732	2.12	813	2.95	871	3.6	922	4.25	973	4.93	1021	5.61	1067	6.3	1111	7.01	1152	7.71
8000	1566	699	1.73	762	2.37	838	3.22	900	4.01	951	4.69	998	5.37	1046	6.1	1090	6.83	1134	7.57	1176	8.33
9000	1761	772	2.28	827	2.97	887	3.78	956	4.79	1010	5.66	1055	6.42	1098	7.18	1141	8	1182	8.81	1222	9.63
10000	1957	845	2.95	895	3.7	946	4.51	1004	5.51	1065	6.64	1115	7.61	1156	8.47	1195	9.31	1233	10.16	1272	11.08
11000	2153	920	3.75	966	4.58	1011	5.43	1059	6.37	1114	7.54	1169	8.78	1216	9.89	1255	10.83	1291	11.76	1326	12.69
12000	2348	995	4.7	1038	5.61	1079	6.51	1121	7.46	1166	8.54	1218	9.85	1269	11.21	1314	12.45	1351	13.53	1385	14.55
13000	2544	1070	5.8	1111	6.79	1150	7.76	1188	8.76	1227	9.83	1269	11.03	1317	12.47	1365	13.94	1408	15.33	1445	16.56
14000	2740	1146	7.06	1185	8.14	1221	9.19	1256	10.25	1292	11.34	1329	12.52	1368	13.84	1413	15.38	1458	16.98	1499	18.51
15000	2935	1222	8.5	1259	9.68	1294	10.81	1327	11.93	1360	13.07	1393	14.27	1428	15.55	1465	16.97	1506	18.6	1549	20.32
16000	3131	1299	10.14	1334	11.41	1367	12.62	1398	13.82	1429	15.02	1460	16.25	1491	17.55	1524	18.92	1559	20.43	1597	22.12
17000	3327	1375	11.98	1409	13.35	1441	14.65	1470	15.92	1500	17.19	1529	18.48	1558	19.8	1587	21.18	1618	22.65	1651	24.23
18000	3523	1452	14.04	1485	15.5	1515	16.89	1543	18.25	1571	19.59	1599	20.94	1626	22.31	1654	23.72	1682	25.19	1711	26.74
19000	3718	1529	16.32	1560	17.89	1589	19.37	1617	20.81	1644	22.23	1670	23.65	1696	25.08	1722	26.53	1748	28.03	1774	29.59
20000	3914	1606	18.85	1636	20.52	1664	22.1	1691	23.62	1717	25.12	1742	26.61	1766	28.11	1791	29.62	1816	31.16	1840	32.74
21000	4110	1683	21.64	1712	23.4	1739	25.08	1765	26.69	1790	28.28	1814	29.84	1838	31.41	1861	32.98	1885	34.58	1908	36.2
22000	4305	1761	24.69	1789	26.56	1815	28.33	1840	30.04	1864	31.71	1887	33.35	1910	34.99	1932	36.64	1955	38.29	1977	39.96
23000	4501	1838	28.03	1865	29.99	1891	31.86	1915	33.66	1938	35.42	1960	37.15	1982	38.87	2004	40.59	2026	42.3	2047	44.04
24000	4697	1916	31.65	1942	33.72	1966	35.69	1990	37.58	2012	39.43	2034	41.25								
25000	4892	1993	35.6	2019	37.76	2043	39.82														
26000	5088																				
27000	5284																				

VOL CFM	VEL FPM	6.0		7		8		9		10		11		12		14		16		17	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	EHP	RPM	BHP	RPM	BHP
6500	1272	1193	7.89	1278	9.36																
7000	1370	1209	8.44	1288	9.91	1367	11.49														
7500	1468	1230	9.11	1303	10.55	1378	12.13	1451	13.82												
8000	1566	1252	9.82	1324	11.32	1393	12.87	1462	14.55	1531	16.33	1599	18.19								
9000	1761	1299	11.32	1369	12.99	1435	14.66	1498	16.35	1559	18.09	1621	19.96	1683	21.92						
10000	1957	1345	12.89	1415	14.73	1481	16.63	1543	18.48	1602	20.34	1659	22.22	1713	24.12	1824	28.28	1935	32.75	1989	35.09
11000	2153	1396	14.65	1463	16.63	1527	18.65	1590	20.74	1648	22.78	1704	24.82	1757	26.87	1858	30.98	1959	35.43	2010	37.78
12000	2348	1450	16.58	1514	18.72	1576	20.87	1635	23.06	1693	25.28	1750	27.57	1803	29.8	1903	34.26	1998	38.77		
13000	2544	1509	18.8	1568	20.98	1628	23.31	1686	25.63	1741	27.98	1795	30.37	1848	32.79	1949	37.68	2042	42.51		
14000	2740	1568	21.18	1627	23.57	1682	25.93	1736	28.31	1792	30.91	1844	33.43	1895	35.98	1994	41.17				
15000	2935	1625	23.58	1687	26.34	1741	28.9	1793	31.43	1843	33.97	1896	36.74	1946	39.42	2041	44.87				
16000	3131	1676	25.79	1745	29.17	1801	32.07	1852	34.8	1901	37.49	1949	40.2	1995	42.94						
17000	3327	1724	27.94	1796	31.78	1859	35.32	1912	38.37	1961	41.28	2007	44.15								
18000	3523	1774	30.2	1845	34.29	1911	38.32	1970	42.03	2020	45.26										
19000	3718	1830	32.94	1893	36.83	1960	41.2	2023	45.42												
20000	3914	1892	36.08	1947	39.77	2009	44.09														
21000	4110	1956	39.57	2006	43.2																
22000	4305	2022	43.4																		
23000	4501																				

Performance shown is for installation type D - Ducted inlet, Ducted outlet.
Power rating BHP does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.
The most efficient fan selection appears above the solid line.

AIR POLLUTION CONTROL

Fan Performance Data

SWSI BI AF
Fiberglass Centrifugal Fan

Wheel - 34.812 In. Diameter Wheel Circumference - 9.11 Ft.

HPCA 3300 SWSI
CLASSES I, II, III

Backward Inclined - Airfoil

Outlet Area = 6.08 Sq. Ft.

1097 RPM Class I	1536 RPM Class II	1865 RPM Class III
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$$Maximum BHP = \left(\frac{RPM}{1000} \right)^3 \times 9.81$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5		1		1.5		2		2.5		3		3.5		4		4.5		5	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	493	337	0.31	440	0.61																
3500	576	354	0.38	451	0.7																
4000	658	373	0.45	467	0.82	545	1.21														
4500	740	395	0.54	485	0.95	559	1.37	628	1.82												
5000	822	418	0.64	503	1.08	576	1.54	639	2.01	700	2.53										
6000	987	456	0.83	543	1.39	611	1.93	673	2.49	728	3.05	779	3.62	830	4.25	880	4.92				
7000	1151	499	1.06	587	1.78	649	2.38	708	3.01	763	3.67	812	4.32	858	4.97	901	5.63	945	6.35	988	7.1
8000	1316	548	1.38	627	2.16	694	2.93	746	3.6	798	4.33	846	5.07	893	5.82	935	6.56	975	7.31	1013	8.05
9000	1480	601	1.78	664	2.54	738	3.53	790	4.32	837	5.08	883	5.9	927	6.72	970	7.57	1010	8.41	1047	9.24
10000	1645	655	2.26	710	3.04	775	4.08	835	5.13	881	5.98	923	6.82	965	7.73	1005	8.63	1044	9.55	1082	10.5
11000	1809	710	2.84	760	3.67	813	4.64	875	5.88	926	6.97	967	7.91	1005	8.84	1044	9.83	1081	10.81	1117	11.81
12000	1974	766	3.51	811	4.41	858	5.39	912	6.6	967	7.95	1012	9.1	1049	10.13	1085	11.14	1119	12.16	1155	13.27
13000	2138	822	4.3	865	5.27	906	6.28	951	7.42	1004	8.85	1054	10.28	1094	11.52	1130	12.64	1163	13.74	1195	14.83
14000	2303	878	5.19	919	6.25	957	7.31	997	8.45	1041	9.78	1091	11.37	1137	12.9	1175	14.24	1208	15.46	1239	16.64
15000	2467	935	6.21	973	7.35	1010	8.48	1046	9.65	1084	10.94	1127	12.46	1174	14.18	1216	15.82	1253	17.3	1284	18.59
16000	2632	992	7.37	1029	8.59	1063	9.79	1097	11.01	1132	12.31	1169	13.74	1211	15.44	1254	17.27	1294	19.02	1329	20.63
17000	2796	1049	8.66	1084	9.98	1117	11.25	1149	12.53	1181	13.86	1214	15.28	1250	16.86	1290	18.71	1331	20.66	1369	22.53
18000	2961	1107	10.1	1140	11.52	1172	12.87	1202	14.21	1232	15.59	1263	17.03	1295	18.58	1329	20.29	1367	22.28	1406	24.34
19000	3125	1164	11.71	1197	13.21	1227	14.65	1256	16.06	1284	17.5	1313	18.97	1342	20.53	1373	22.19	1406	24.03	1442	26.14
20000	3289	1222	13.47	1253	15.08	1282	16.6	1310	18.09	1337	19.59	1364	21.11	1392	22.69	1420	24.35	1449	26.13	1481	28.09
21000	3454	1280	15.42	1310	17.12	1338	18.73	1365	20.3	1391	21.87	1417	23.45	1443	25.07	1469	26.75	1496	28.52	1524	30.41
22000	3618	1338	17.55	1367	19.34	1394	21.04	1420	22.7	1445	24.34	1470	25.99	1494	27.66	1519	29.38	1544	31.16	1570	33.02
23000	3783	1396	19.87	1424	21.76	1451	23.56	1476	25.3	1500	27.02	1523	28.73	1547	30.46	1571	32.23	1594	34.04	1618	35.91
24000	3947	1454	22.39	1481	24.38	1507	26.27	1531	28.1	1555	29.9	1578	31.69	1600	33.49	1623	35.3	1645	37.16	1668	39.06
25000	4112	1512	25.12	1539	27.22	1564	29.2	1587	31.12	1610	33	1632	34.87	1654	36.73	1676	38.61	1697	40.51	1719	42.45
26000	4276	1570	28.07	1596	30.27	1621	32.35	1643	34.36	1666	36.33	1687	38.27	1708	40.21	1729	42.15	1750	44.12	1771	46.1
27000	4441	1629	31.25	1654	33.55	1677	35.73	1700	37.83	1721	39.89	1742	41.91	1763	43.93	1783	45.94	1803	47.96	1823	50.01
28000	4605	1687	34.67	1712	37.07	1735	39.34	1756	41.54	1777	43.69	1798	45.8	1818	47.89	1837	49.98	1857	52.07		
29000	4770	1746	38.33	1769	40.83	1792	43.2	1813	45.5	1834	47.73	1853	49.93								
30000	4934	1804	42.25	1827	44.85	1849	47.32														
31000	5099	1863	46.42																		
32000	5263																				

VOL CFM	VEL FPM	6.0		7		8		9		10		11		12		14		16		17	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1316	1089	9.68	1165	11.46																
9000	1480	1118	10.92	1185	12.67	1253	14.57	1320	16.6												
10000	1645	1152	12.35	1217	14.22	1277	16.09	1339	18.11	1400	20.26	1460	22.52								
11000	1809	1187	13.88	1251	15.91	1311	17.96	1368	20.02	1423	22.11	1479	24.36	1534	26.73	1643	32.37				
12000	1974	1222	15.44	1285	17.66	1346	19.93	1402	22.15	1456	24.39	1507	26.65	1557	28.94	1664	35	1761	40.26	1808	42.93
13000	2138	1260	17.18	1321	19.53	1380	21.93	1437	24.4	1490	26.81	1541	29.22	1590	31.65	1689	37.72	1783	43.29	1828	46.11
14000	2303	1299	19.01	1359	21.56	1416	24.09	1471	26.61	1526	29.34	1576	31.93	1624	34.53	1718	40.55	1809	46.4	1853	49.38
15000	2467	1342	21.12	1398	23.67	1455	26.42	1508	29.13	1560	31.87	1610	34.67	1659	37.53	1750	43.53	1838	49.65		
16000	2632	1387	23.41	1441	26.1	1493	28.82	1546	31.77	1597	34.65	1645	37.57	1693	40.47	1783	46.68				
17000	2796	1432	25.81	1486	28.73	1536	31.59	1584	34.48	1635	37.62	1683	40.67	1729	43.76	1818	50.02				
18000	2961	1475	28.22	1531	31.5	1580	34.56	1628	37.59	1674	40.65	1722	43.98	1767	47.2	1854	53.55				
19000	3125	1514	30.45	1575	34.36	1625	37.7	1672	40.93	1717	44.12	1760	47.35	1806	50.86						
20000	3289	1550	32.6	1615	37.03	1671	41.01	1717	44.44	1761	47.83	1804	51.19	1845	54.58						
21000	3454	1587	34.78	1653	39.57	1712	44.1	1762	48.07	1806	51.72	1848	55.28								
22000	3618	1626	37.16	1689	42.08	1750	47.05	1805	51.68	1851	55.75										
23000	3783	1669	39.96	1725	44.63	1787	49.92	1844	55.05												
24000	3947	1715	43.08	1766	47.56	1823	52.81														
25000	4112	1763	46.51	1810	50.9	1861	55.84														
26000	4276	1813	50.21	1856	54.59																
27000	4441	1863	54.2																		

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Power rating BHP does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

The most efficient fan selection appears above the solid line.

AIR POLLUTION CONTROL

Fan Performance Data

SWSI BI AF

Fiberglass Centrifugal Fan

Wheel - 38.5 In. Diameter

Wheel Circumference - 10.07 Ft.

HPCA 3650 SWSI

CLASSES I, II, III

Backward Inclined - Airfoil

Outlet Area = 7.62 Sq. Ft.

992 RPM Class I	1389 RPM Class II	1687 RPM Class III
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$$MaximumBHP = \left(\frac{RPM}{1000} \right)^3 \times 16.2$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5		1		1.5		2		2.5		3		3.5		4		4.5		5	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4000	525	313	0.42	402	0.81																
5000	657	341	0.57	425	1.03	494	1.51														
6000	788	374	0.76	451	1.29	518	1.85	575	2.41	631	3.05										
7000	920	403	0.95	480	1.59	543	2.22	600	2.9	650	3.53	698	4.23	746	5						
8000	1051	432	1.15	512	1.95	571	2.65	625	3.38	675	4.13	720	4.87	762	5.63	804	6.45	846	7.33	888	8.26
9000	1182	467	1.42	545	2.35	601	3.14	653	3.94	700	4.76	746	5.61	787	6.44	826	7.28	863	8.14	900	9.07
10000	1314	504	1.76	573	2.72	634	3.71	682	4.55	728	5.45	771	6.37	813	7.31	851	8.24	887	9.17	921	10.11
11000	1445	543	2.17	601	3.1	667	4.31	714	5.28	756	6.21	799	7.21	838	8.21	877	9.25	913	10.27	947	11.29
12000	1576	583	2.65	634	3.59	695	4.86	747	6.07	789	7.09	827	8.11	866	9.21	903	10.3	938	11.38	973	12.55
13000	1708	623	3.2	670	4.19	722	5.4	778	6.86	822	8.06	859	9.16	894	10.27	931	11.46	965	12.63	998	13.78
14000	1839	664	3.82	708	4.88	752	6.06	806	7.59	855	9.08	892	10.31	927	11.49	959	12.68	993	13.96	1025	15.15
15000	1971	706	4.54	746	5.66	787	6.86	833	8.31	883	10.02	926	11.54	960	12.83	992	14.09	1022	15.36	1054	16.73
16000	2102	747	5.34	786	6.54	823	7.77	863	9.17	910	10.91	956	12.69	993	14.23	1025	15.62	1055	16.97	1084	18.32
17000	2233	789	6.23	826	7.51	861	8.8	897	10.2	938	11.84	983	13.78	1024	15.62	1058	17.22	1088	18.69	1116	20.12
18000	2365	831	7.23	866	8.59	899	9.94	933	11.37	969	12.95	1010	14.86	1052	16.91	1090	18.82	1121	20.49	1149	22.04
19000	2496	873	8.33	907	9.78	939	11.2	970	12.67	1003	14.24	1039	16.03	1079	18.16	1118	20.31	1153	22.3	1183	24.05
20000	2627	915	9.55	948	11.09	978	12.58	1008	14.1	1039	15.69	1071	17.44	1106	19.45	1145	21.74	1182	23.98	1215	26.07
21000	2759	958	10.88	989	12.51	1018	14.08	1047	15.66	1076	17.29	1105	19.03	1137	20.96	1172	23.2	1209	25.6	1243	27.94
22000	2890	1000	12.33	1031	14.06	1059	15.71	1086	17.35	1113	19.04	1141	20.8	1170	22.69	1201	24.79	1236	27.22	1271	29.74
23000	3022	1043	13.92	1072	15.74	1100	17.47	1126	19.19	1152	20.93	1178	22.72	1205	24.62	1233	26.66	1264	28.94	1298	31.54
24000	3153	1085	15.64	1114	17.55	1141	19.37	1166	21.16	1191	22.96	1216	24.81	1241	26.72	1267	28.75	1295	30.95	1325	33.39
25000	3284	1128	17.5	1156	19.51	1182	21.42	1206	23.29	1230	25.16	1254	27.05	1278	29	1303	31.04	1329	33.21	1356	35.55
26000	3416	1171	19.5	1198	21.61	1223	23.61	1247	25.56	1270	27.5	1293	29.46	1316	31.45	1340	33.52	1364	35.68	1388	37.98
27000	3547	1214	21.66	1240	23.87	1264	25.96	1288	28	1310	30.01	1333	32.03	1355	34.08	1377	36.18	1400	38.36	1423	40.65
28000	3678	1256	23.98	1282	26.29	1306	28.47	1329	30.59	1351	32.68	1372	34.77	1394	36.88	1415	39.03	1437	41.24	1459	43.53
29000	3810	1299	26.46	1325	28.87	1348	31.15	1370	33.35	1391	35.52	1412	37.69	1433	39.86	1454	42.06	1474	44.31	1495	46.62
30000	3941	1342	29.11	1367	31.62	1390	33.99	1411	36.29	1432	38.54	1453	40.78	1473	43.02	1492	45.28	1512	47.58	1533	49.93
32000	4204	1429	34.95	1452	37.66	1474	40.22	1494	42.7	1514	45.12	1534	47.52	1553	49.9	1571	52.29	1590	54.7	1609	57.15
34000	4467	1515	41.54	1537	44.44	1558	47.2	1578	49.87	1597	52.47	1615	55.03	1634	57.57	1651	60.1	1669	62.64	1687	65.2
36000	4729	1601	48.92	1623	52.03	1643	54.99	1662	57.84	1680	60.62										

VOL CFM	VEL FPM	6.0		7		8		9		10		11		12		14		16		17	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	1314	989	12.07	1056	14.25																
11000	1445	1011	13.35	1071	15.48	1133	17.81	1193	20.3												
12000	1576	1036	14.77	1094	17.01	1150	19.3	1207	21.78	1263	24.4	1318	27.16								
13000	1708	1062	16.27	1120	18.68	1174	21.11	1226	23.53	1278	26.15	1330	28.91	1381	31.8						
14000	1839	1087	17.78	1146	20.43	1200	23.02	1251	25.63	1300	28.27	1347	30.95	1396	33.84	1492	39.98				
15000	1971	1114	19.43	1171	22.18	1226	25.03	1276	27.81	1325	30.6	1371	33.41	1415	36.2	1505	42.33	1597	50.21	1639	53.52
16000	2102	1142	21.19	1197	24.08	1250	27.03	1302	30.07	1350	33.03	1396	36.01	1440	39	1524	45.03	1614	53.24	1655	56.72
17000	2233	1170	23	1226	26.11	1277	29.19	1327	32.26	1376	35.56	1422	38.71	1465	41.87	1549	48.22	1633	56.36	1673	59.98
18000	2365	1202	25.08	1255	28.27	1305	31.48	1354	34.75	1401	38.07	1448	41.51	1491	44.85	1574	51.53	1654	59.58		
19000	2496	1235	27.31	1284	30.51	1334	33.93	1382	37.32	1428	40.77	1473	44.27	1517	47.92	1599	54.96	1677	62.93		
20000	2627	1269	29.65	1317	33.03	1363	36.41	1411	40.05	1456	43.63	1499	47.26	1542	50.94	1625	58.5				
21000	2759	1302	31.88	1350	35.7	1395	39.24	1439	42.8	1485	46.65	1527	50.42	1569	54.22	1650	61.97				
22000	2890	1333	34.48	1383	38.48	1428	42.23	1471	45.93	1522	50.14	1566	53.74	1607	57.68	1676	65.69				
23000	3022	1362	36.72	1417	41.38	1462	45.35	1504	49.24	1553	49.67	1594	57.03	1636	61.31						
24000	3153	1389	38.88	1447	44.07	1495	48.57	1537	52.71	1585	53.11	1626	60.8	1666	64.89						
25000	3284	1416	41.03	1476	46.67	1527	51.84	1570	56.29	1617	56.76	1659	64.78	1699	68.99						
26000	3416	1443	43.22	1503	49.19	1557	54.88	1604	60.04	1650	60.57	1692	68.94								
27000	3547	1473	45.69	1530	51.7	1585	57.82	1635	63.53	1684	64.51										
28000	3678	1505	48.48	1556	54.24	1612	60.69	1663	66.89	1717	68.56										
29000	3810	1539	51.55	1586	57.08	1639	63.56														
30000	3941	1574	54.86	1617	60.27	1666	66.47														
32000	4204	1647	62.19																		

Performance shown is for installation type D - Ducted inlet, Ducted outlet.
Power rating BHP does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.
The most efficient fan selection appears above the solid line.

AIR POLLUTION CONTROL Fan Performance Data

SWSI BI AF

Fiberglass Centrifugal Fan

Wheel - 42.5 In. Diameter

Wheel Circumference - 11.12 Ft.

HPCA 4025 SWSI

CLASSES I, II, III

Backward Inclined - Airfoil

Outlet Area = 9.28 Sq. Ft.

899 RPM Class I 1258 RPM Class II 1528 RPM Class III

$$\text{Maximum BHP} = \left(\frac{\text{RPM}}{1000} \right)^3 \times 26.6$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5 RPM BHP	1 RPM BHP	1.5 RPM BHP	2 RPM BHP	2.5 RPM BHP	3 RPM BHP	3.5 RPM BHP	4 RPM BHP	4.5 RPM BHP	5 RPM BHP
4000	431	267 0.41									
5000	539	286 0.53	366 1.01								
6000	647	307 0.68	384 1.23	447 1.81							
7000	754	331 0.86	403 1.48	463 2.14	517 2.82	569 3.6					
8000	862	354 1.06	423 1.77	482 2.51	533 3.25	580 4.02	626 4.88				
10000	1078	397 1.46	470 2.48	523 3.34	571 4.25	616 5.19	657 6.12	694 7.05	732 8.05	769 9.12	806 10.25
11000	1185	424 1.74	494 2.88	545 3.84	592 4.82	635 5.82	676 6.86	713 7.88	748 8.91	782 9.95	816 11.08
12000	1293	451 2.08	515 3.25	570 4.41	613 5.42	655 6.51	695 7.6	733 8.74	767 9.86	800 10.98	831 12.08
13000	1401	480 2.47	535 3.61	595 5.02	637 6.13	677 7.27	715 8.43	751 9.63	786 10.86	819 12.06	850 13.27
14000	1509	510 2.92	558 4.05	617 5.59	662 6.9	699 8.08	736 9.33	771 10.59	805 11.87	838 13.2	869 14.5
15000	1616	539 3.42	584 4.59	637 6.13	686 7.71	724 9	758 10.27	793 11.62	825 12.97	857 14.3	888 15.78
16000	1724	570 3.99	611 5.21	657 6.68	709 8.48	748 9.99	782 11.34	814 12.7	847 14.15	877 15.59	907 17.05
17000	1832	600 4.62	639 5.9	680 7.34	729 9.2	773 11.01	807 12.5	838 13.93	868 15.37	899 16.93	928 18.46
18000	1940	631 5.32	668 6.67	705 8.12	749 9.92	795 11.95	831 13.7	862 15.25	892 16.77	920 18.29	949 19.95
19000	2047	661 6.09	697 7.52	732 9	770 10.72	815 12.85	855 14.9	887 16.64	916 18.26	943 19.86	970 21.47
20000	2155	692 6.94	727 8.44	760 9.97	795 11.67	835 13.75	876 16.02	912 18.07	941 19.83	968 21.52	994 23.21
22000	2371	755 8.88	787 10.55	817 12.2	847 13.93	879 15.86	916 18.18	954 20.69	989 23.04	1017 25.09	1043 26.99
24000	2586	817 11.17	847 13.01	875 14.8	903 16.63	931 18.57	961 20.7	994 23.2	1030 25.96	1063 28.61	1092 31.05
26000	2802	880 13.84	909 15.86	935 17.81	960 19.76	986 21.77	1012 23.89	1040 26.22	1070 28.87	1103 31.86	1135 34.79
28000	3017	944 16.92	970 19.13	995 21.24	1019 23.33	1043 25.45	1067 27.63	1091 29.94	1117 32.44	1144 35.21	1175 38.38
30000	3233	1007 20.44	1033 22.84	1056 25.13	1079 27.37	1101 29.61	1123 31.9	1145 34.26	1168 36.74	1192 39.39	1217 42.28
32000	3448	1071 24.43	1095 27.03	1118 29.5	1139 31.9	1160 34.29	1181 36.69	1201 39.14	1222 41.67	1244 44.31	1266 47.1
34000	3664	1134 28.94	1158 31.73	1179 34.38	1200 36.96	1220 39.49	1240 42.03	1259 44.59	1278 47.21	1298 49.89	1318 52.69
36000	3879	1198 33.97	1221 36.97	1242 39.81	1261 42.56	1280 45.26	1299 47.94	1318 50.63	1336 53.35	1354 56.12	1373 58.97
38000	4095	1262 39.58	1284 42.78	1304 45.81	1323 48.73	1341 51.6	1359 54.44	1377 57.27	1394 60.12	1412 63	1429 65.93
40000	4310	1326 45.79	1347 49.18	1366 52.41	1385 55.52	1403 58.56	1420 61.56	1437 64.55	1453 67.53	1470 70.53	1486 73.56
42000	4526	1391 52.62	1411 56.22	1429 59.64	1447 62.94	1464 66.16	1481 69.33	1497 72.48	1513 75.61		
44000	4741	1455 60.12	1474 63.93	1492 67.54	1509 71.03						
48000	5172										
50000	5388										

VOL CFM	VEL FPM	6.0 RPM BHP	7 RPM BHP	8 RPM BHP	9 RPM BHP	10 RPM BHP	11 RPM BHP	12 RPM BHP	14 RPM BHP	16 RPM BHP	17 RPM BHP
10000	1078										
11000	1185	883 13.51									
12000	1293	893 14.51	955 17.16								
13000	1401	908 15.69	965 18.33	1022 21.18							
14000	1509	926 17.1	980 19.71	1033 22.55	1086 25.58	1139 28.77					
15000	1616	945 18.56	998 21.35	1048 24.14	1098 27.16	1147 30.36	1197 33.72				
16000	1724	965 20.07	1017 23.03	1067 26.02	1113 28.98	1160 32.17	1206 35.53	1253 39.05			
17000	1832	983 21.57	1037 24.79	1086 27.94	1132 31.11	1175 34.24	1219 37.59	1263 41.1	1351 48.59		
18000	1940	1003 23.2	1055 26.5	1105 29.93	1151 33.27	1195 36.62	1237 40.01	1277 43.42	1360 50.89	1442 58.94	1482 64.34
19000	2047	1024 24.93	1075 28.38	1123 31.9	1170 35.5	1214 39.03	1255 42.57	1295 46.13	1373 53.47	1452 61.51	1493 67.52
20000	2155	1046 26.76	1095 30.34	1143 33.9	1189 37.81	1233 41.51	1274 45.22	1314 48.94	1389 56.36	1469 66.44	1506 70.75
21000	2263	1067 28.6	1116 32.41	1163 36.2	1208 40.06	1252 44.07	1293 47.96	1333 51.85	1408 59.69	1484 69.59	1520 74.04
22000	2371	1091 30.7	1137 34.46	1184 38.52	1228 42.51	1270 46.46	1313 50.77	1352 54.85	1427 63.01	1497 71.25	
23000	2478	1115 32.93	1160 36.8	1205 40.96	1248 45.08	1290 49.26	1331 53.5	1372 57.92	1446 66.44	1515 75	
24000	2586	1140 35.25	1184 39.29	1226 43.36	1270 47.77	1311 52.09	1351 56.46	1390 60.89	1465 69.96		
25000	2694	1165 37.64	1208 41.91	1250 46.12	1290 50.39	1332 55.04	1371 59.55	1409 64.11	1485 73.55		
26000	2802	1189 40.13	1233 44.63	1274 49.02	1313 53.41	1354 58.13	1392 62.78	1430 67.47	1503 77.01		
27000	2909	1212 42.45	1258 47.43	1299 52.04	1337 56.59	1375 61.16	1414 66.14	1451 70.97	1522 80.77		
28000	3017	1233 44.68	1283 50.34	1323 55.17	1362 59.91	1399 64.63	1435 69.4	1473 74.61			
29000	3125	1254 46.85	1305 53.05	1348 58.39	1386 63.36	1423 68.25	1458 73.14	1493 78.1			
30000	3233	1274 49	1327 55.68	1373 61.72	1411 65.92	1447 72.01	1482 77.06	1516 82.13			
32000	3448	1314 53.4	1368 60.74	1417 67.82	1460 74.28	1497 79.89					

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Power rating BHP does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

The most efficient fan selection appears above the solid line.

AIR POLLUTION CONTROL

Fan Performance Data

SWSI BI AF

Fiberglass Centrifugal Fan

Wheel - 47 In. Diameter

Wheel Circumference - 12.30Ft.

HPCA 4450 SWSI

CLASSES I, II, III

Backward Inclined - Airfoil

Outlet Area - 11.46 Sq. Ft.

813 RPM Class I	1138 RPM Class II	1382 RPM Class III
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$$\text{Maximum BHP} = \left(\frac{\text{RPM}}{1000} \right)^3 \times 46.6$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5 RPM BHP	1 RPM BHP	1.5 RPM BHP	2 RPM BHP	2.5 RPM BHP	3 RPM BHP	3.5 RPM BHP	4 RPM BHP	4.5 RPM BHP	5 RPM BHP
5000	436	228 0.47									
6000	523	238 0.58	315 1.16								
7000	611	250 0.69	322 1.33								
8000	698	263 0.83	332 1.52	390 2.29							
9000	785	275 0.97	343 1.74	398 2.56	448 3.44						
10000	872	290 1.13	355 1.99	408 2.86	456 3.79	501 4.79					
11000	959	305 1.32	368 2.26	419 3.19	466 4.18	509 5.21	549 6.32				
12000	1047	321 1.54	380 2.53	431 3.56	476 4.6	518 5.69	557 6.82	594 8.03	630 9.32		
13000	1134	337 1.78	393 2.82	444 3.95	488 5.05	528 6.21	566 7.39	602 8.62	636 9.91	669 11.3	
14000	1221	355 2.05	408 3.15	457 4.37	500 5.55	539 6.75	576 8.01	611 9.29	644 10.6	676 12	707 13.4
16000	1396	391 2.68	439 3.92	482 5.22	526 6.64	563 7.98	598 9.34	631 10.7	664 12.2	694 13.7	723 15.1
18000	1570	428 3.46	471 4.84	512 6.25	550 7.73	589 9.36	623 10.9	655 12.4	685 13.9	714 15.5	743 17.1
20000	1744	465 4.39	505 5.91	544 7.46	579 9.06	613 10.7	649 12.5	680 14.2	709 15.9	737 17.6	764 19.3
22000	1919	504 5.49	542 7.16	576 8.85	610 10.6	642 12.3	673 14.2	706 16.2	735 18.1	762 19.9	788 21.8
24000	2093	543 6.77	578 8.6	610 10.4	642 12.3	673 14.2	702 16.1	730 18.1	760 20.3	788 22.4	814 24.4
26000	2268	582 8.27	615 10.3	646 12.2	675 14.2	705 16.2	733 18.3	760 20.4	786 22.6	812 24.8	840 27.2
28000	2442	621 9.99	653 12.1	683 14.2	710 16.4	737 18.6	764 20.7	790 23	815 25.2	839 27.5	863 29.9
30000	2617	661 12	691 14.2	719 16.5	746 18.8	770 21.1	796 23.4	822 25.8	846 28.2	869 30.6	892 33
32000	2791	701 14.2	730 16.6	756 19	782 21.5	806 23.9	829 26.4	854 28.9	877 31.4	900 33.9	922 36.5
34000	2966	742 16.6	769 19.2	794 21.9	819 24.4	842 27	864 29.6	886 32.3	909 34.9	931 37.5	953 40.2
36000	3140	782 19.4	808 22.2	832 24.9	856 27.7	878 30.4	900 33.1	920 35.9	942 38.7	963 41.5	984 44.3
38000	3315	823 22.5	847 25.4	871 28.3	893 31.2	915 34.1	936 37	956 39.9	975 42.9	996 45.8	1016 48.7
40000	3489	864 25.9	887 29	909 32	931 35.1	952 38.1	973 41.1	992 44.2	1011 47.3	1029 50.4	1049 53.5
42000	3663	905 29.6	926 32.9	948 36.1	969 39.3	989 42.5	1009 45.7	1029 48.9	1047 52.1	1064 55.3	1082 58.6
44000	3838	946 33.8	966 37.2	988 40.5	1008 43.9	1027 47.3	1046 50.6	1065 53.9	1083 57.2	1101 60.6	1117 64.1
46000	4012	987 38.3	1007 41.8	1027 45.3	1046 48.9	1065 52.4	1084 55.9	1102 59.3	1120 62.8	1137 66.3	1153 69.9
48000	4187	1028 43.2	1047 46.8	1066 50.5	1085 54.2	1104 57.9	1121 61.6	1139 65.2	1156 68.8	1173 72.4	1189 76.1
50000	4361	1069 48.5	1088 52.3	1106 56.2	1125 60	1142 63.8	1159 67.6	1176 71.4	1193 75.2	1210 78.9	1226 82.7
52000	4536	1110 54.2	1128 58.1	1146 62.2	1164 66.1	1181 70.1	1198 74.1	1214 78.1	1230 82	1247 85.9	1262 89.8
54000	4710	1151 60.5	1169 64.4	1186 68.7	1203 72.8	1220 76.9	1236 81.1	1252 85.2	1268 89.3	1284 93.3	1299 97.4
56000	4885	1193 67.2	1210 71.2	1226 75.6	1243 79.9	1259 84.2	1275 88.5	1290 92.8	1306 97.1	1321 101	1336 105
58000	5059	1234 74.3	1251 78.5	1267 83	1282 87.5	1298 91.9	1314 96.3	1329 101	1344 105	1358 110	1373 114
60000	5233	1275 82	1292 86.2	1307 90.9	1322 95.6	1338 100	1353 105	1368 109			

VOL CFM	VEL FPM	6.0 RPM BHP	7 RPM BHP	8 RPM BHP	9 RPM BHP	10 RPM BHP	11 RPM BHP	12 RPM BHP	14 RPM BHP	16 RPM BHP	18 RPM BHP
16000	1396	780 18.3	834 21.7								
18000	1570	797 20.5	848 23.9	897 27.6	945 31.5						
20000	1744	817 22.9	866 26.6	913 30.3	958 34.2	1002 38.3					
22000	1919	838 25.5	886 29.4	932 33.4	975 37.5	1017 41.7	1045 42.7				
24000	2093	862 28.5	908 32.6	953 36.8	995 41.1	1036 45.5	1058 46	1098 50.5			
26000	2268	887 31.6	932 36	975 40.4	1016 45	1056 49.6	1075 50	1114 54.5	1188 64.2	1260 74.6	
28000	2442	914 35	957 39.6	999 44.4	1039 49.2	1078 54	1095 54.4	1132 59.2	1203 68.9	1272 79.3	1339 90.3
30000	2617	938 38.2	984 43.6	1024 48.6	1064 53.7	1101 58.8	1115 59	1152 64	1222 74.3	1288 84.8	1352 95.9
32000	2791	964 41.7	1008 47.4	1051 53.1	1089 58.4	1126 63.8	1138 63.9	1173 69.2	1242 80	1307 91	1369 102
34000	2966	994 45.7	1033 51.3	1076 57.5	1116 63.5	1151 69.2	1162 69.3	1196 74.7	1263 86	1327 97.5	
36000	3140	1024 50	1063 55.9	1100 61.9	1140 68.4	1178 74.9	1186 74.9	1220 80.7	1285 92.3	1348 104	
38000	3315	1055 54.7	1093 60.8	1129 67	1164 73.3	1202 80.3	1212 80.9	1245 86.9	1309 99.2	1370 111	
40000	3489	1087 59.7	1124 66	1159 72.5	1193 79	1226 85.7	1239 87.1	1272 93.5	1334 106		
42000	3663	1119 65.1	1155 71.6	1189 78.3	1223 85.1	1255 92	1263 93.1	1298 100	1359 114		
44000	3838	1152 70.8	1187 77.6	1221 84.6	1253 91.6	1285 98.7	1287 99	1321 107			
46000	4012	1185 77	1219 84.1	1252 91.2	1284 98.5	1315 106	1316 106	1346 113			
48000	4187	1220 83.5	1252 90.9	1285 98.3	1316 106	1346 113	1345 113	1375 121			
50000	4361	1256 90.4	1286 98.2	1317 106	1348 114	1377 121	1375 121				
52000	4536	1292 97.8	1321 106	1350 114	1380 122						

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Power rating BHP does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

The most efficient fan selection appears above the solid line.

AIR POLLUTION CONTROL

SWSI BI AF

Fiberglass Centrifugal Fan

Wheel - 51.75 In. Diameter

Wheel Circumference -13.54 Ft.

HPCA 4900 SWSI

CLASSES I, II, III

Backward Inclined - Airfoil

Outlet Area - 14.02 Sq. Ft.

738 RPM Class I

1033 RPM Class II

1255 RPM Class III

$$\text{Maximum BHP} = \left(\frac{\text{RPM}}{1000} \right)^3 \times 75.4$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5		1		1.5		2		2.5		3		3.5		4		4.5		5	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	576	222	0.78	290	1.52																
9000	648	232	0.91	296	1.71	351	2.61														
10000	719	242	1.05	304	1.91	356	2.85														
11000	791	251	1.19	312	2.13	362	3.13	408	4.2												
12000	863	262	1.35	321	2.38	370	3.43	414	4.54	454	5.76										
13000	935	273	1.54	330	2.64	378	3.76	421	4.93	460	6.16	497	7.51								
14000	1007	285	1.74	340	2.93	387	4.11	428	5.34	466	6.63	502	7.98	537	9.44						
15000	1079	297	1.97	349	3.19	396	4.49	436	5.78	474	7.13	509	8.52	542	9.98	574	11.6				
16000	1151	309	2.22	359	3.49	405	4.89	445	6.24	482	7.65	516	9.11	548	10.6	579	12.2	609	13.8		
17000	1223	323	2.49	370	3.83	415	5.31	454	6.74	490	8.2	523	9.72	555	11.3	585	12.9	614	14.5	643	16.3
18000	1295	336	2.79	382	4.2	424	5.72	463	7.26	498	8.8	531	10.4	563	12	592	13.6	621	15.3	648	17.1
19000	1367	350	3.11	394	4.59	434	6.14	473	7.83	508	9.42	540	11	570	12.7	600	14.4	627	16.2	654	18
20000	1439	363	3.47	406	5.01	445	6.62	483	8.38	517	10.1	549	11.8	578	13.5	607	15.3	635	17.1	661	18.9
22000	1583	391	4.27	430	5.95	467	7.68	501	9.49	537	11.5	567	13.3	596	15.2	624	17.1	650	19	676	21
24000	1727	419	5.2	456	7.03	491	8.88	523	10.8	554	12.8	587	15	615	17	642	19	667	21.1	692	23.2
26000	1871	448	6.26	483	8.23	515	10.2	546	12.3	576	14.4	604	16.6	635	19	661	21.1	686	23.3	710	25.6
28000	2015	477	7.48	510	9.6	540	11.8	570	13.9	599	16.2	626	18.4	652	20.8	681	23.4	705	25.8	728	28.1
30000	2158	506	8.86	538	11.1	566	13.4	594	15.7	622	18.1	648	20.5	673	23	698	25.5	725	28.3	748	30.9
32000	2302	536	10.4	565	12.9	593	15.3	619	17.8	646	20.2	671	22.8	695	25.3	719	28	741	30.6	767	33.7
34000	2446	565	12.2	594	14.8	621	17.3	645	19.9	670	22.6	695	25.2	718	27.9	741	30.7	763	33.4	784	36.3
36000	2590	595	14.1	622	16.9	648	19.6	672	22.3	695	25.1	719	27.9	742	30.7	764	33.6	785	36.5	806	39.4
38000	2734	625	16.2	651	19.2	676	22	699	24.9	721	27.9	743	30.8	766	33.7	787	36.7	808	39.7	828	42.8
40000	2878	655	18.6	680	21.7	704	24.7	727	27.7	748	30.8	769	33.9	790	37	811	40.1	831	43.2	851	46.4
42000	3022	685	21.2	710	24.4	732	27.7	754	30.8	775	34	795	37.3	815	40.5	835	43.7	855	47	874	50.3
44000	3166	716	24	739	27.4	761	30.8	782	34.1	803	37.5	822	40.8	841	44.3	860	47.6	879	51	898	54.5
46000	3310	746	27.1	768	30.7	790	34.2	810	37.7	830	41.2	849	44.7	867	48.2	885	51.8	904	55.3	922	58.9
48000	3453	777	30.5	798	34.2	819	37.9	838	41.6	858	45.2	877	48.8	894	52.5	911	56.2	928	59.9	947	63.6
50000	3597	807	34.2	828	38.1	848	41.9	867	45.7	886	49.5	904	53.2	922	57	938	60.9	955	64.0	971	66.0
55000	3957	884	44.6	903	48.9	921	53.1	939	57.3	956	61.5	973	65.7	990	69.8	1006	73.9	1022	78.2	1037	82.4
60000	4317	961	57.1	979	61.6	995	66.3	1012	70.9	1028	75.5	1044	80.1	1060	84.6	1075	89.1	1090	93.6	1105	98.2
65000	4677	1038	71.8	1055	76.6	1070	81.7	1086	86.6	1101	91.6	1116	96.6	1130	102	1145	107	1159	111	1173	116
70000	5036	1116	88.9	1131	93.9	1146	99.4	1160	105	1175	110	1189	116	1202	121	1216	126	1229	132	1243	137

VOL CFM	VEL FPM	6.0		7		8		9		10		11		12		14		16		18	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18000	1295	701	20.9																		
19000	1367	706	21.8																		
20000	1439	712	22.8																		
22000	1583	725	25	760	26.9	815	33.6	859	38.4	909	46.1	957	54.6	994	60.1	1073	75.5	1148	92.4	1218	111
24000	1727	740	27.4	785	31.9	827	36.4	869	41.1	920	49.3	969	58.3	1005	63.8	1084	79.9	1158	97.4	1229	116
26000	1871	756	30	800	34.7	841	39.5	881	44.3	933	53	983	62.6	1017	68.2	1125	95.9	1184	109	1241	123
28000	2015	773	32.9	816	37.7	857	42.7	896	47.8	948	57	998	67	1032	72.9	1110	90.2	1170	103	1255	130
30000	2158	792	35.9	833	41	873	46.2	911	51.6	963	61.2	1014	71.7	1047	77.8	1129	102	1189	116	1260	137
32000	2302	811	39.1	851	44.5	890	50	927	55.5	979	65.6	1024	76.6	1058	82.9	1141	101	1200	111	1270	144
34000	2446	831	42.5	870	48.1	908	54	944	59.7	997	70.4	1048	81.8	1079	88.4	1157	108	1214	122	1280	151
36000	2590	849	45.7	890	52.1	927	58.1	963	64.2	1015	75.4	1066	87.4	1097	94.2	1174	115	1230	129	1300	158
38000	2734	867	49.1	909	56	947	62.6	981	68.9	1034	80.5	1085	93	1116	100	1192	121	1247	136	1320	165
40000	2878	889	52.9	926	59.6	966	67.1	1001	73.9	1054	86.1	1105	99.2	1134	106	1211	129	1266	143	1340	172
42000	3022	911	57.1	947	64	983	71.3	1021	79	1074	91.8	1124	105	1154	113	1229	136	1284	150	1360	179
44000	3166	934	61.5	969	68.6	1003	75.9	1039	83.8	1092	97.2	1143	111	1174	120	1250	144	1305	158	1380	186
46000	3310	958	66.1	992	73.5	1025	81	1056	88.7	1108	102	1159	117	1192	126	1266	151	1320	165	1400	193
48000	3453	981	71.1	1015	78.7	1047	86.5	1078	94.4	1124	111	1174	120	1200	137	1284	158	1340	172	1420	200
50000	3597	1006	76.3	1038	84.2	1070	92.2	1100	100	1143	111	1192	126	1220	144	1305	158	1360	179	1440	207
55000	3957	1067	90.9	1098	99.4	1128	108	1157	117	1186	126	1213	135	1240	144	1320	165	1380	186	1500	221
60000	4317	1133	107	1160	117	1189	126	1217	135	1244	145	1271	144	1300	153	1380	186	1440	193	1560	235

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Power rating BHP does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

The most efficient fan selection appears above the solid line.

AIR POLLUTION CONTROL

Fan Performance Data

SWSI BI AF

Fiberglass Centrifugal Fan

Wheel - 57.25 In. Diameter

Wheel Circumference - 14.98 Ft.

HPCA 5425 SWSI

CLASSES I, II, III

Backward Inclined - Airfoil

Outlet Area - 16.87 Sq. Ft.

667 RPM Class I	934 RPM Class II	1134 RPM Class III	
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$$\text{Maximum BHP} = \left(\frac{\text{RPM}}{1000} \right)^3 \times 125$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5		1		1.5		2		2.5		3		3.5		4		4.5		5	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	588	202	0.98	263	1.9																
12000	705	217	1.25	273	2.29	321	3.42														
14000	823	231	1.54	285	2.74	331	3.99	371	5.32												
16000	941	248	1.9	299	3.26	342	4.63	381	6.07	416	7.58	450	9.23								
18000	1058	265	2.32	313	3.81	355	5.35	392	6.91	426	8.54	458	10.2	488	12	518	13.9				
20000	1176	284	2.83	328	4.41	370	6.16	405	7.85	438	9.59	469	11.4	498	13.3	525	15.2	552	17.2	578	19.4
22000	1293	304	3.4	345	5.12	383	6.99	419	8.87	450	10.7	480	12.7	506	14.7	535	16.7	561	18.7	586	20.9
24000	1411	324	4.07	362	5.93	390	7.07	433	10	460	12	493	14.1	520	16.1	546	18.3	571	20.5	595	22.7
26000	1528	344	4.83	380	6.83	414	8.89	446	11.1	479	13.4	506	15.6	533	17.8	558	20	582	22.4	606	24.7
28000	1646	365	5.71	399	7.85	432	10	462	12.3	492	14.8	521	17.2	546	19.5	571	21.9	594	24.3	617	26.8
30000	1764	386	6.68	418	8.96	449	11.3	478	13.7	506	16.1	535	18.9	560	21.4	584	23.9	607	26.5	630	29.1
32000	1881	407	7.77	438	10.2	467	12.7	495	15.2	522	17.8	547	20.4	575	23.4	599	26.1	621	28.8	643	31.5
34000	1999	428	8.98	458	11.6	485	14.2	513	16.8	539	19.5	563	22.3	588	25.3	613	28.3	635	31.2	657	34
36000	2116	450	10.3	479	13.1	505	15.8	531	18.6	556	21.4	580	24.3	603	27.3	626	30.5	650	33.7	671	36.8
38000	2234	471	11.8	499	14.7	525	17.6	549	20.5	573	23.5	597	26.5	619	29.6	640	32.7	663	36.2	686	39.6
40000	2351	493	13.4	520	16.5	545	19.5	568	22.6	591	25.7	614	28.8	635	32	656	35.3	677	38.6	699	42.3
42000	2469	515	15.2	541	18.5	565	21.6	587	24.9	609	28.1	631	31.3	653	34.7	673	38.1	693	41.5	712	45
44000	2587	537	17.2	562	20.6	585	23.9	607	27.2	628	30.7	649	34	670	37.5	690	41	709	44.5	728	48.2
46000	2704	559	19.3	583	22.8	606	26.3	627	29.8	647	33.4	667	36.9	688	40.5	707	44.1	726	47.8	744	51.5
48000	2822	582	21.6	605	25.3	626	29	647	32.6	667	36.3	686	40	706	43.7	725	47.4	743	51.2	761	55.1
50000	2939	604	24.1	626	27.9	647	31.8	668	35.5	687	39.3	705	43.2	724	47.1	742	50.9	761	54.8	778	58.8
52000	3057	626	26.8	648	30.8	668	34.8	688	38.7	707	42.6	725	46.6	742	50.7	760	54.7	778	58.7	796	62.8
54000	3175	649	29.6	670	33.8	689	38	709	42	727	46.1	745	50.2	761	54.5	778	58.6	796	62.8	813	67
56000	3292	671	32.7	691	37.1	711	41.4	729	45.6	747	49.8	765	54.1	781	58.4	797	62.8	814	67.1	831	71.4
58000	3410	694	36	713	40.5	732	45	750	49.4	768	53.8	785	58.2	801	62.6	817	67.1	832	71.6	849	76
60000	3527	716	39.6	735	44.3	754	48.8	771	53.4	788	58	805	62.5	821	67	836	71.7	851	76.4	867	81
65000	3821	773	49.5	790	54.5	808	59.5	824	64.5	840	69.5	856	74.3	872	79.2	886	84.2	901	89.2	914	94.2
70000	4115	830	61	846	66.3	862	71.7	878	77.1	893	82.5	908	87.8	923	93	937	98.3	951	104	964	109
75000	4409	887	74.2	902	79.8	917	85.7	932	91.4	946	97.2	960	103	974	109	988	114	1001	120	1014	126
80000	4703	944	89.3	958	95.2	972	101	986	108	1000	114	1014	120	1027	126	1039	132	1052	138	1065	144

VOL CFM	VEL FPM	6.0		7		8		9		10		11		12		14		16		18	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22000	1293	634	25.6																		
24000	1411	641	27.4	685	32.4																
26000	1528	650	29.5	693	34.6	734	40														
28000	1646	661	31.9	702	37.1	742	42.5	780	48.3												
30000	1764	672	34.4	713	39.9	751	45.4	788	51.2	824	57.4	859	63.8								
32000	1881	684	37	724	42.7	762	48.6	797	54.5	832	60.6	866	67.1	899	73.8						
34000	1999	697	39.8	736	45.8	773	51.9	808	58.1	842	64.4	875	70.8	907	77.6	969	91.9				
36000	2116	711	42.8	748	49	784	55.3	819	61.8	853	68.3	885	75	916	81.8	977	96.1	1035	111		
38000	2234	724	45.9	762	52.4	797	58.9	831	65.6	864	72.4	896	79.4	926	86.4	985	101	1042	116	1097	133
40000	2351	739	49.3	775	56	810	62.8	843	69.7	875	76.7	907	83.9	937	91.2	995	106	1050	121	1104	138
42000	2469	754	52.7	789	59.7	824	66.8	856	74	888	81.2	918	88.6	948	96.2	1006	112	1060	127	1112	144
44000	2587	767	55.9	804	63.7	837	71	870	78.5	901	86	931	93.6	960	101	1017	117	1070	133	1122	150
46000	2704	780	59.1	818	67.6	852	75.5	883	83.1	914	91	944	98.8	972	107	1028	123	1081	140	1132	157
48000	2822	796	62.9	831	71.3	867	80	898	88	928	96.1	957	104	985	112	1040	129	1092	146		
50000	2939	812	66.9	845	75.2	880	84.3	913	93.2	942	101	971	110	999	118	1052	136	1104	153		
52000	3057	829	71.1	861	79.6	892	88.4	927	98.1	957	107	985	116	1012	124	1065	142	1116	160		
54000	3175	846	75.6	877	84.3	908	93.2	940	103	971	113	1000	122	1026	131	1079	149	1128	168		
56000	3292	863	80.2	894	89.2	924	98.4	953	108	985	118	1014	128	1041	137	1092	156				
58000	3410	881	85.1	911	94.3	940	104	968	113	997	123	1028	134	1056	144	1106	164				
60000	3527	898	90.2	928	99.7	957	109	985	119	1012	129	1041	140	1070	151	1121	171				
65000	3821	943	104	972	114	1000	125	1026	135	1052	146	1078	156	1103	167						
70000	4115	990	120	1017	131	1044	141	1069	152	1095	164	1119	175								

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Power rating BHP does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

The most efficient fan selection appears above the solid line.

SWSI BI AF

Fiberglass Centrifugal Fan

Wheel - 63.375 In. Diameter

Wheel Circumference - 16.58 Ft.

HPCA 6000 SWSI

CLASSES I, II, III

Backward Inclined - Airfoil

Outlet Area - 20.88 Sq. Ft.

603 RPM Class I	844 RPM Class II	1025 RPM Class III	
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$$\text{Maximum BHP} = \left(\frac{\text{RPM}}{1000} \right)^3 \times 208$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5 RPM BHP	1 RPM BHP	1.5 RPM BHP	2 RPM BHP	2.5 RPM BHP	3 RPM BHP	3.5 RPM BHP	4 RPM BHP	4.5 RPM BHP	5 RPM BHP
12000	576	182 1.17	236 2.28								
14000	672	192 1.43	244 2.66	288 4.03							
16000	768	202 1.7	252 3.08	294 4.55	332 6.15						
18000	864	214 2.03	262 3.57	302 5.15	338 6.82	371 8.64					
20000	959	226 2.4	273 4.11	311 5.8	346 7.6	377 9.47	407 11.5				
22000	1055	239 2.83	283 4.66	321 6.54	354 8.44	385 10.4	414 12.5	441 14.7	467 17		
24000	1151	253 3.33	293 5.24	331 7.33	363 9.37	393 11.5	421 13.7	448 15.9	473 18.3	497 20.8	
26000	1247	267 3.88	306 5.93	342 8.18	373 10.4	402 12.6	429 14.9	455 17.3	480 19.7	503 22.2	526 24.9
28000	1343	282 4.5	318 6.68	351 8.97	384 11.5	412 13.8	438 16.2	464 18.7	488 21.3	510 23.9	533 26.5
30000	1439	297 5.2	331 7.52	363 9.93	394 12.6	422 15.1	448 17.7	472 20.2	496 22.9	518 25.6	540 28.4
32000	1535	312 5.98	344 8.44	375 11	404 13.6	433 16.5	458 19.2	482 21.9	505 24.7	527 27.5	548 30.4
34000	1631	327 6.85	358 9.45	388 12.1	415 14.9	443 17.9	469 20.8	492 23.7	514 26.6	536 29.5	556 32.5
36000	1727	342 7.8	372 10.5	401 13.3	427 16.2	453 19.2	479 22.5	502 25.5	524 28.6	545 31.6	565 34.7
38000	1823	358 8.84	387 11.7	414 14.7	440 17.7	464 20.8	489 24.1	513 27.5	534 30.6	555 33.9	575 37.1
40000	1919	374 9.98	402 13	427 15.1	453 19.2	476 22.4	499 25.8	523 29.4	545 32.9	565 36.2	585 39.6
42000	2015	389 11.2	417 14.4	441 17.6	466 20.9	489 24.2	511 27.7	533 31.2	556 35.1	576 38.7	595 42.2
44000	2111	405 12.6	431 15.9	455 19.3	479 22.7	501 26.1	523 29.7	544 33.3	565 37.2	587 41.2	605 44.9
46000	2207	421 14	447 17.5	470 21	492 24.6	514 28.2	535 31.8	556 35.6	575 39.4	597 43.7	616 47.7
48000	2303	437 15.6	462 19.3	485 22.9	505 26.6	527 30.3	548 34.1	568 38	587 41.9	605 46	627 50.5
50000	2399	453 17.3	477 21.2	499 24.9	520 28.8	541 32.6	561 36.6	580 40.5	599 44.6	617 48.7	636 53.1
55000	2639	494 22.2	516 26.4	537 30.6	556 34.7	575 39	594 43.2	612 47.5	630 51.9	647 56.3	664 60.8
60000	2878	535 27.9	556 32.5	575 37.1	594 41.6	611 46.2	628 50.9	645 55.5	662 60.1	679 64.9	695 69.7
65000	3118	576 34.6	595 39.6	614 44.6	631 49.5	648 54.4	664 59.4	679 64.5	695 69.5	711 74.5	727 79.6
70000	3358	618 42.4	636 47.8	653 53.1	669 58.5	685 63.7	701 69.1	716 74.4	730 79.9	745 85.3	760 90.6
75000	3598	659 51.3	676 57.1	692 62.8	708 68.6	723 74.2	738 79.9	753 85.6	766 91.3	780 97.2	793 103
80000	3838	701 61.4	717 67.6	732 73.7	747 79.8	762 86	776 92	790 98	803 104	816 110	829 116
85000	4078	743 72.8	758 79.3	773 85.9	787 92.4	801 98.9	814 105	827 112	841 118	853 125	865 131
90000	4318	785 85.7	799 92.5	813 99.5	827 106	840 113	853 120	865 127	878 134	890 140	902 147
95000	4557	827 100	841 107	853 115	867 122	879 129	892 136	904 144	916 151	928 158	939 165
100000	4797	869 116	882 123	894 131	907 139	919 146	931 154	943 162	954 169	966 177	977 184
105000	5037	911 133	924 141	936 149	947 157	959 165	971 173	982 181	993 189	1004 198	1015 205

VOL CFM	VEL FPM	6.0 RPM BHP	7 RPM BHP	8 RPM BHP	9 RPM BHP	10 RPM BHP	11 RPM BHP	12 RPM BHP	14 RPM BHP	16 RPM BHP	18 RPM BHP
28000	1343	575 32.2									
30000	1439	581 34.1	620 40.4								
32000	1535	588 36.4	626 42.6	663 49.2							
34000	1631	596 38.7	633 45.1	669 51.7	704 58.8						
36000	1727	604 41.2	641 47.8	676 54.5	709 61.6	742 69.1					
38000	1823	613 43.7	649 50.6	683 57.6	716 64.8	748 72.3	779 80.2	809 88.4			
40000	1919	622 46.4	657 53.5	691 60.8	723 68.2	754 75.8	785 83.6	814 91.9			
42000	2015	631 49.3	666 56.6	699 64.1	731 71.8	762 79.6	791 87.5	820 95.7	876 113		
44000	2111	641 52.3	675 59.8	708 67.6	740 75.5	770 83.5	799 91.7	827 100	882 118	935 136	
46000	2207	651 55.4	685 63.2	717 71.1	748 79.3	778 87.6	807 96	835 105	888 122	940 141	995 166
48000	2303	662 58.7	695 66.8	727 74.9	757 83.3	786 91.8	815 100	842 109	895 127	946 146	1000 172
50000	2399	673 62.1	705 70.4	737 78.9	766 87.4	795 96.2	823 105	851 114	903 133	952 152	1017 187
55000	2639	697 70.1	732 80.2	762 89.3	791 96.7	819 108	846 117	872 127	923 147	971 167	
60000	2878	726 79.4	756 89.4	789 101	818 111	844 121	871 131	896 141	945 162	992 183	
65000	3118	757 90	785 101	813 111	843 123	871 135	897 146	921 157	969 179	1014 201	
70000	3358	789 102	816 113	843 124	869 136	896 148	923 161	948 173	994 196		
75000	3598	821 115	848 126	874 138	898 151	923 163	946 176	974 190	1021 216		
80000	3838	854 129	880 141	905 154	929 167	953 180	976 193	998 206			
85000	4078	889 144	913 157	938 171	961 184	984 196	1006 211				
90000	4318	925 161	947 175	971 189	994 203	1016 217					
95000	4557	962 180	983 194	1004 209							

Performance shown is for installation type D - Ducted inlet, Ducted outlet.

Power rating BHP does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

The most efficient fan selection appears above the solid line.

AIR POLLUTION CONTROL

Fan Performance Data

SWSI BI AF Fiberglass Centrifugal Fan

Wheel - 69.75 In. Diameter Wheel Circumference - 18.25 Ft.

HPCA 6600 SWSI CLASSES I, II, III

Backward Inclined - Airfoil
Outlet Area - 25.59 Sq. Ft.

548 RPM Class I	767 RPM Class II	931 RPM Class III
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$$\text{Maximum BHP} = \left(\frac{\text{RPM}}{1000} \right)^3 \times 335$$

Static Pressure - Inches W.C.

VOL CFM	VEL FPM	0.5		1		1.5		2		2.5		3		3.5		4		4.5		5	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14000	554	163	1.35	214	2.68																
16000	634	171	1.6	219	3.03																
18000	713	179	1.88	225	3.43	264	5.13														
20000	792	186	2.16	231	3.88	269	5.69	303	7.64												
22000	871	195	2.49	239	4.37	275	6.3	307	8.33	337	10.5										
24000	951	205	2.87	247	4.91	282	6.95	313	9.11	342	11.4	369	13.8								
26000	1030	214	3.29	255	5.47	289	7.68	320	9.95	348	12.3	374	14.8	399	17.4						
28000	1109	224	3.76	262	6.01	297	8.44	326	10.8	354	13.3	380	15.9	404	18.6	427	21.4	450	24.5		
30000	1188	235	4.28	271	6.66	305	9.28	334	11.8	360	14.4	386	17.1	409	19.9	432	22.7	454	25.8	475	29
32000	1267	246	4.85	280	7.36	312	10.1	341	12.8	367	15.5	392	18.4	415	21.3	437	24.2	459	27.3	479	30.5
34000	1347	257	5.48	290	8.13	319	10.9	349	13.9	375	16.8	399	19.7	421	22.7	443	25.8	464	29	484	32.2
36000	1426	268	6.18	299	8.96	328	11.9	357	15	382	18.1	406	21.1	428	24.3	449	27.5	470	30.8	490	34.1
38000	1505	279	6.94	309	9.86	337	12.9	364	16.1	390	19.4	413	22.6	435	25.9	456	29.2	476	32.6	496	36.1
40000	1584	290	7.77	319	10.8	347	14	372	17.3	398	20.9	421	24.2	442	27.6	463	31	483	34.5	502	38.1
45000	1782	319	10.2	346	13.6	371	17.1	395	20.6	417	24.3	441	28.4	462	32.3	481	36	500	39.9	518	43.7
50000	1980	349	13	374	16.8	396	20.7	419	24.6	440	28.6	460	32.7	481	37.1	502	41.6	519	45.7	537	49.9
55000	2178	379	16.5	402	20.6	423	24.8	443	29.1	464	33.4	483	37.8	502	42.3	519	46.9	539	52	557	56.8
60000	2376	409	20.5	430	25.1	451	29.6	469	34.3	488	38.9	507	43.6	525	48.4	542	53.3	558	58.2	576	63.6
65000	2574	439	25.2	459	30.2	479	35.1	497	40	513	45.1	531	50.1	548	55.2	565	60.4	581	65.6	596	71
70000	2772	470	30.6	489	36	507	41.3	524	46.6	540	52	556	57.4	573	62.8	589	68.3	604	73.8	619	79.5
75000	2970	501	36.8	519	42.5	536	43.3	552	53.9	568	59.6	583	65.5	598	71.2	613	77	628	82.9	643	88.8
80000	3168	532	43.8	549	49.9	565	53.1	581	62.1	596	68.2	610	74.3	624	80.5	638	86.7	653	92.8	667	99.1
85000	3366	563	51.7	579	58.2	594	64.8	609	71.3	624	77.6	638	84.1	651	90.6	664	97.2	678	104	691	110
90000	3564	594	60.5	609	67.5	624	74.3	638	81.3	652	88.1	666	94.8	679	102	692	109	704	116	716	123
95000	3762	625	70.3	640	77.7	654	84.9	668	92.3	681	99.6	694	107	707	114	719	121	731	128	743	136
100000	3960	657	81.2	670	88.9	684	96.6	697	104	710	112	723	120	735	127	747	135	759	142	770	150
105000	4158	688	93.3	701	101	714	109	727	117	739	125	751	134	763	141	775	149	786	157	796	165
110000	4356	719	106	732	115	744	123	757	132	769	140	780	149	792	157	803	165	814	173	825	182
115000	4555	751	121	763	129	775	139	787	147	799	156	810	165	821	174	832	182	843	191	853	200
120000	4753	783	137	794	145	806	155	817	164	829	173	839	182	850	192	860	201	871	210	881	219
125000	4951	814	154	826	163	837	172	847	182	858	192	869	201	879	211	889	220	899	230	910	239
130000	5149	846	172	857	181	868	192	878	202	889	212	899	221	909	231	919	241	928	251		
135000	5276	877	192	888	202	899	212	908	223	919	233	929	243								

VOL CFM	VEL FPM	6.0		7		8		9		10		11		12		14		16		18	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
34000	1347	523	39.1																		
36000	1426	527	41	563	48.5																
38000	1505	532	43.2	567	50.7	601	53.8														
40000	1584	538	45.5	572	53	605	61.1	637	69.7												
45000	1782	553	51.8	586	59.8	618	63.2	648	76.7	677	85.9	706	95.4								
50000	1980	571	58.4	602	67.2	633	75.2	662	85.4	690	94.7	717	104	743	114	795	135				
55000	2178	589	66	620	75.4	649	84.9	677	94.7	705	105	731	115	756	125	805	146	852	169		
60000	2376	609	74.2	639	84.2	667	94.5	694	105	721	115	746	126	771	137	819	159	864	182	906	206
65000	2574	628	82.5	659	93.9	686	105	713	116	738	127	763	138	787	150	834	173	878	197	920	222
70000	2772	648	91	678	104	707	116	732	127	757	139	781	151	804	163	849	188	893	213		
75000	2970	670	101	697	113	725	127	752	140	776	153	800	165	823	178	867	204	909	230		
80000	3168	694	112	719	125	744	138	771	152	797	167	820	180	842	194	885	221	926	248		
85000	3366	718	124	743	137	767	151	790	165	815	180	840	196	862	211	904	239				
90000	3564	742	136	766	151	790	165	812	180	835	195	857	210	882	227	924	258				
95000	3762	767	150	791	165	813	180	835	195	857	211	878	227	899	243						
100000	3960	792	165	815	181	838	196	859	212	880	228	900	245	920	261						
105000	4158	818	182	840	198	862	214	883	230	904	247	924	264								
110000	4356	846	199	866	216	887	233	908	250	928	267										
115000	4555	874	217	893	235	912	253														

Performance shown is for installation type D - Ducted inlet, Ducted outlet.
Power rating BHP does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.
The most efficient fan selection appears above the solid line.

SWSI BI AF Fiberglass Centrifugal Fan

Wheel - 77 In. Diameter Wheel Circumference - 20.15 Ft.

HPCA 7300 SWSI CLASSES I, II, III

Backward Inclined - Airfoil
Outlet Area - 30.34 Sq. Ft.

496 RPM Class I	694 RPM Class II	843 RPM Class III
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$$\text{Maximum BHP} = \left(\frac{\text{RPM}}{1000} \right)^3 \times 549$$

Static Pressure - Inches W.C.

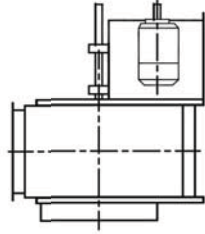
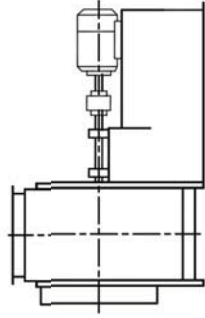
VOL CFM	VEL FPM	0.5 RPM BHP	1 RPM BHP	1.5 RPM BHP	2 RPM BHP	2.5 RPM BHP	3 RPM BHP	3.5 RPM BHP	4 RPM BHP	4.5 RPM BHP	5 RPM BHP
15000	487	143 1.43									
20000	650	156 2.02	199 3.79	236 5.8							
25000	812	171 2.73	211 4.88	245 7.11	275 9.51						
30000	975	188 3.64	226 6.2	257 8.73	286 11.4	311 14.2	336 17.2				
35000	1137	206 4.8	240 7.6	271 10.6	296 13.6	323 16.7	346 19.9	368 23.2	388 26.7	409 30.4	
40000	1300	227 6.22	257 9.35	286 12.7	312 16.2	335 19.6	357 23	378 26.6	396 30.3	417 34.1	436 38
45000	1462	247 7.95	275 11.4	301 15	327 19	349 22.8	371 26.6	391 30.5	410 34.4	428 38.5	446 42.7
50000	1625	268 10	294 13.9	319 17.8	341 21.8	364 26.3	385 30.5	404 34.8	423 39	440 43.4	457 47.8
55000	1787	290 12.5	314 16.6	337 20.9	358 25.3	379 29.8	400 34.7	419 39.5	437 44.1	454 48.7	470 53.4
60000	1950	312 15.3	335 19.8	355 24.5	376 29.2	395 34	414 38.9	433 44.3	452 49.6	468 54.5	484 59.7
65000	2112	334 18.6	355 23.5	375 28.5	394 33.5	413 38.6	431 43.9	448 49.2	465 55	483 60.9	498 66.3
70000	2275	356 22.4	376 27.7	395 33	413 38.4	431 43.8	448 49.4	464 55	480 60.8	496 66.9	513 73.4
75000	2437	379 26.7	398 32.4	416 38.1	433 43.8	449 49.6	466 55.5	482 61.4	497 67.5	512 73.6	526 79.9
80000	2600	401 31.5	420 37.6	437 43.7	453 49.8	468 56	484 62.1	500 68.4	514 74.8	529 81.2	543 87.8
85000	2762	424 37	441 43.5	458 49.9	474 56.3	488 62.9	503 69.5	518 76	532 82.7	546 89.5	560 96.3
90000	2925	447 43	464 49.9	479 56.8	494 63.6	509 70.4	522 77.4	536 84.4	550 91.3	564 98.4	577 106
95000	3087	470 49.7	486 57	501 64.4	515 71.5	529 78.7	543 86	555 93.4	569 101	582 108	595 115
100000	3250	493 57.2	508 64.9	523 72.6	537 80.2	550 87.7	563 95.3	575 103	588 111	600 118	613 126
105000	3412	516 65.3	531 73.5	545 81.5	558 89.6	571 97.4	584 105	596 113	607 122	619 130	631 138
110000	3575	539 74.3	553 82.9	567 91.3	580 99.7	592 108	605 116	617 125	628 133	639 142	650 150
115000	3737	563 84.1	576 93.1	589 102	601 111	613 119	626 128	637 137	648 146	659 154	670 163
120000	3900	586 94.8	599 104	611 113	623 122	635 132	647 141	658 150	669 159	680 168	690 177
125000	4062	609 106	622 116	634 126	646 135	657 145	668 154	679 164	690 173	700 183	710 192
130000	4225	633 119	645 129	656 139	668 149	679 159	689 169	700 178	711 188	721 198	731 208
135000	4387	656 132	668 143	679 153	690 163	701 174	711 184	721 194	732 204	742 215	751 225
140000	4550	680 147	691 157	701 168	712 179	723 190	733 200	743 211	753 222	763 232	772 243
145000	4712	703 162	714 173	724 185	735 196	745 207	755 218	765 229	774 240	784 251	793 262
150000	4875	726 179	737 190	747 202	757 213	767 225	777 236	786 248	796 259	805 271	814 282
155000	5037	750 197	760 208	770 220	780 232	790 244	799 256	808 268	817 280	826 292	835 303
160000	5200	773 216	784 227	793 240	802 252	812 264	821 277	830 289	839 301		
165000	5362	797 236	807 248	816 260	825 273	834 286					

VOL CFM	VEL FPM	6.0 RPM BHP	7 RPM BHP	8 RPM BHP	9 RPM BHP	10 RPM BHP	11 RPM BHP	12 RPM BHP	14 RPM BHP	16 RPM BHP	18 RPM BHP
40000	1300	471 46.4									
45000	1462	480 51.1	512 60.3								
50000	1625	490 56.9	521 66.3	550 76.1	579 86.6						
55000	1787	502 63.1	532 73.1	560 83.3	587 93.8	614 105	639 117				
60000	1950	514 69.9	543 80.5	571 91.3	597 102	623 114	648 125	672 137			
65000	2112	528 77.3	556 88.4	583 99.8	609 111	634 123	658 135	681 148	726 174	770 201	
70000	2275	542 85.1	570 97	596 109	621 121	645 134	669 146	691 159	735 186	777 213	818 243
75000	2437	558 93.7	584 106	610 119	634 132	658 145	680 158	703 172	746 199	786 227	825 257
80000	2600	571 102	599 116	624 129	648 143	671 157	693 170	715 184	757 213	797 243	835 273
85000	2762	586 110	613 126	639 141	662 155	685 169	707 184	728 196	769 228	808 259	
90000	2925	602 120	627 135	653 152	677 167	699 182	721 197	741 213	781 244	820 276	
95000	3087	620 131	643 146	666 162	692 180	714 196	735 212	755 228	795 260	832 293	
100000	3250	637 142	660 158	682 175	704 191	729 210	750 228	770 244	809 278		
105000	3412	655 154	678 171	699 188	720 205	741 223	765 243	785 261	823 296		
110000	3575	673 167	695 184	716 202	737 220	757 238	777 257	799 278	838 316		
115000	3737	692 181	713 199	734 217	754 236	774 254	793 274	812 293			
120000	3900	710 196	732 214	752 233	772 252	791 272	809 291	828 311			
125000	4062	730 212	750 231	770 250	789 270	808 290	826 310				
130000	4225	750 228	769 248	788 268	807 289	826 309					
135000	4387	770 246	788 267	807 287	826 308						
140000	4550	791 264	808 286	825 308							

Performance shown is for installation type D - Ducted inlet, Ducted outlet.
 Power rating BHP does not include drive losses.
 Performance ratings do not include the effects of appurtenances in the airstream.
 The most efficient fan selection appears above the solid line.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

HPCA	I.D.	A. O.D.	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	S	T	U	V	W	X	Y	Z	LL	NN	PP	SHAFT SIZE CLASS I-4	SHAFT SIZE CLASS III
2000	22	22 ³ / ₈	16	21 ¹ / ₂	40 ³ / ₈	25 ¹ / ₄	26 ¹ / ₂	35 ¹ / ₂	9 ³ / ₈	15 ¹ / ₈	18 ¹ / ₂	21	47 ³ / ₈	22 ¹ / ₂	22 ¹ / ₈	14 ¹ / ₂	24 ¹ / ₂	33	45 ³ / ₄	43 ¹ / ₈	41	2	4	15 ¹ / ₈	2	45 ³ / ₈	10 ³ / ₈	26	1 ¹⁵ / ₁₆	
2225	24	24 ³ / ₈	18	23	41 ³ / ₄	25 ¹ / ₄	29	39	10 ¹ / ₈	16 ¹ / ₂	20 ¹ / ₂	23 ¹ / ₂	50 ⁵ / ₈	25	25 ¹ / ₈	16	27	36 ¹ / ₈	47 ¹ / ₂	44 ¹ / ₈	42 ³ / ₄	2	3 ¹ / ₂	15 ³ / ₈	2	49	11 ¹ / ₄	26	1 ¹⁵ / ₁₆	
2450	25 ³ / ₄	26 ¹ / ₈	19 ¹ / ₂	25 ¹ / ₂	47	28	30	43 ¹ / ₂	11 ³ / ₈	19	22	23 ¹ / ₂	53 ¹ / ₈	26	26 ⁵ / ₈	16	28	40	52 ³ / ₈	49	48 ¹ / ₈	2	4 ⁵ / ₈	16 ¹ / ₈	2	50 ¹ / ₂	12	29	1 ¹¹ / ₁₆	2 ³ / ₁₆
2700	29 ¹ / ₄	29 ⁵ / ₈	21 ³ / ₄	28 ¹ / ₂	50 ¹ / ₄	30 ¹ / ₄	35	47 ³ / ₄	12 ⁷ / ₈	20	24 ¹ / ₄	24	57 ³ / ₈	31	29 ¹ / ₂	16	33	44	57 ³ / ₄	54 ¹ / ₄	51 ¹ / ₄	2	4	19 ¹ / ₄	2	55 ³ / ₈	13 ¹ / ₈	31	1 ¹¹ / ₁₆	2 ³ / ₁₆
3000	32	32 ³ / ₈	24	31	55 ³ / ₄	33	38	52 ¹ / ₂	14	22 ³ / ₄	27	25	61 ⁷ / ₈	34	33 ¹ / ₈	16	36	49 ¹ / ₄	63	59 ¹ / ₂	56 ¹ / ₂	3	5 ¹ / ₂	20 ⁵ / ₈	2	59	14 ¹ / ₂	34	2 ³ / ₁₆	2 ⁷ / ₁₆
3300	36	36 ³ / ₈	25 ¹ / ₂	34	62 ¹ / ₂	35 ³ / ₄	42	58 ¹ / ₂	15 ¹ / ₂	26 ³ / ₄	27 ³ / ₈	27 ¹ / ₂	66 ¹ / ₂	38	33	19	39	55 ³ / ₄	68 ³ / ₄	64 ⁵ / ₈	62 ¹ / ₂	3	6	21 ⁵ / ₈	3	63 ¹ / ₂	16	37	2 ³ / ₁₆	2 ¹¹ / ₁₆
3650	40	40 ¹ / ₂	29	38	69 ³ / ₄	40 ³ / ₄	45 ¹ / ₂	64 ¹ / ₂	17 ¹ / ₂	29	32	29 ¹ / ₂	73 ³ / ₄	41 ¹ / ₂	38 ⁵ / ₈	19 ¹ / ₂	42 ¹ / ₂	61 ¹ / ₄	77 ³ / ₄	73	69 ¹ / ₂	3	7 ¹ / ₈	24 ¹ / ₈	3	69 ⁵ / ₈	17 ¹ / ₂	42	2 ⁷ / ₁₆	2 ¹¹ / ₁₆
4025	44 ¹ / ₂	45	33 ¹ / ₂	41 ³ / ₄	72	41 ³ / ₄	50 ¹ / ₄	71 ¹ / ₄	19 ³ / ₈	30 ¹ / ₄	36	29 ¹ / ₂	77 ⁵ / ₈	46 ¹ / ₄	42 ⁵ / ₈	19 ¹ / ₂	47 ¹ / ₄	66	82 ³ / ₄	77 ¹ / ₂	75 ¹ / ₄	3	7	26 ¹ / ₈	3	73 ⁵ / ₈	19 ¹ / ₂	45	2 ⁷ / ₁₆	2 ¹⁵ / ₁₆
4450	49	49 ¹ / ₂	36 ¹ / ₄	46 ¹ / ₄	78	44 ³ / ₄	56	77 ¹ / ₂	21 ³ / ₈	33 ¹ / ₄	39 ¹ / ₂	30	81 ¹ / ₈	52	46 ¹ / ₂	19 ¹ / ₂	53	72 ³ / ₈	89 ³ / ₄	83 ⁷ / ₈	83 ¹ / ₂	3	6 ¹ / ₂	28	3	78 ¹ / ₄	21 ³ / ₈	51	2 ¹¹ / ₁₆	3 ⁷ / ₁₆
4900	53 ¹ / ₂	54	39 ¹ / ₂	51 ¹ / ₄	85 ³ / ₄	49	62	87	23 ⁷ / ₈	36 ³ / ₄	42 ³ / ₄	35	90 ¹ / ₄	52	47 ¹ / ₄	26	59	80 ¹ / ₂	99	92 ³ / ₄	93	4	7 ¹ / ₂	29 ¹ / ₂	3	85 ³ / ₄	22 ⁷ / ₈	56	2 ¹⁵ / ₁₆	3 ⁷ / ₁₆
5425	59 ³ / ₄	60 ¹ / ₄	43	56	96 ⁵ / ₈	54 ¹ / ₈	65	96	26	41 ¹ / ₂	47 ¹ / ₂	35	99 ¹ / ₂	55	55 ¹ / ₈	24	62	88 ¹ / ₈	109 ¹ / ₈	100 ³ / ₄	102	4	8	35 ⁷ / ₈	3	94 ¹ / ₂	25 ¹ / ₄	61	3 ⁷ / ₁₆	3 ¹⁵ / ₁₆
6000	66 ¹ / ₂	67	47	62 ¹ / ₄	102 ³ / ₄	58 ³ / ₈	74	106 ³ / ₈	29 ⁵ / ₈	44 ³ / ₈	50 ³ / ₄	39 ¹ / ₂	109	64	57 ¹ / ₄	29	70	97 ¹ / ₂	119 ⁵ / ₈	111 ¹ / ₂	112 ¹ / ₈	4	9	38 ³ / ₈	4	104	28 ¹ / ₄	67	3 ⁷ / ₁₆	4 ⁷ / ₁₆
6600	72	72 ⁵ / ₈	53 ¹ / ₂	69	112 ⁵ / ₈	63 ⁵ / ₈	80 ¹ / ₂	117 ¹ / ₄	32 ¹ / ₂	49	56 ¹ / ₈	41	116 ¹ / ₄	70 ¹ / ₂	63 ¹ / ₈	30	76 ¹ / ₂	107 ⁵ / ₈	131 ¹ / ₈	122 ¹ / ₄	122 ³ / ₄	4	9 ¹ / ₄	39 ³ / ₄	4	111	29 ⁵ / ₈	73	3 ¹⁵ / ₁₆	4 ⁷ / ₁₆
7300	80	80 ⁵ / ₈	58	75	123 ³ / ₈	68 ³ / ₈	88	127	34 ¹ / ₂	55	62 ¹ / ₂	41	120 ³ / ₄	78	69 ⁵ / ₈	30	84	118 ¹ / ₂	141 ³ / ₈	131 ⁷ / ₈	133	4	9 ¹ / ₂	43 ³ / ₈	4	115 ¹ / ₂	33 ¹ / ₄	79	3 ¹⁵ / ₁₆	4 ¹⁵ / ₁₆



HEE-Dual

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HPCA SERIES FRP AIRFOIL FAN

Date: 10/02/08 DWG: F08086-02 SHT OF DEC. 2017