Bulletin 8800-2
October 1996

Series 8800
Radial Tip Fans

Design 8812

NORTHERN BLOWER®

Series 8800
Radial Tip Fans

The Design 8812 Radial Tip fan is a reliable, highly efficient, heavy duty, rugged fan suitable for a wide range of industrial applications. The Northern Blower Radial Tip is capable of moving large volumes at moderate to high static pressures. It is designed to handle clean or dirty airstreams including hot gasses and fumes, process exhaust, induced draft, and light concentrations of particle matter. This bulletin contains information on the most basic Radial Tip fans offered by Northern Blower. Consult your Northern Blower sales representative for assistance with custom Radial Tip fan selections.

Industrial supply and exhaust applications

Induced Draft
Boilers
Incinerators
Kilns
Furnaces
Ovens
Baghouses
Cyclones
Precipitators
Scrubbers
Dryers

The ratings shown for the Series 8800, Design 8812 Radial Tip Fan are based on tests and procedures performed in accordance with AMCA publication 210.

Flanged Outlet
Punched flange to facilitate the bolting of duct connections to the fan outlet.

Radial Tip Wheel
Superior combination of efficient operation and rugged, dependable service.

Bearings
Heavy duty split pillow-block spherical roller bearings sized for generous B-10 life.

Shaft
Turned ground and polished or fully machined to close tolerance for smooth operation.

Shaft Seal
Used to reduce leakage through the shaft hole in the housing.

Heavy Duty
Structural Bearing Pedestal

Housing
Rugged heavy gauge all welded steel housing with substantial framing sections for maximum rigidity. Standard features include flanged outlet, housing drain, shaft seal and gasketted housing split for wheel removal.

Balancing
Wheel and shaft assemblies are interference fit and dynamically balanced to ISO 1940 specifications for smooth operation.

Shafts and Bearings

Shafts

Selected to have suitable strength and operate well below the first critical speed for each operating condition. Wheels are interference fit on the shaft to ensure that solid contact is maintained at elevated temperatures.

Bearings

Anti-friction, grease lubricated, roller type split housing, manufactured to internationally adopted standards by companies having worldwide acceptance and support services. Bearings are selected for continuous operation with a generous bearing life.

Capacities

Catalogued up to 100,000 CFM. Available to 250,000 CFM.

Pressures

Catalogued up to 30" WG. Available to 35" WG.

Temperatures

The high temperature operating limit is 300°F without a cooling wheel, and 800°F with a cooling wheel and standard shaft seal.

Arrangements and Configurations

This catalogue primarily refers to arrangement 1 fans (see page 19 for AMCA fan arrangements). Northern Blower Radial Tip fans are also available in arrangements 3, 7, and 8 as well as double inlet double width configurations.

Design 8812 Radial Tip Wheel

The Northern Blower Radial Tip wheel is designed for high operating efficiency. Blades are formed from heavy gauge high strength low alloy steel. Continuously welded steel construction is standard. Catalogued from 27" to 60" diameters. Available in larger sizes for custom applications.

Vibration Isolation Base

Rigid steel frame to provide a common mounting platform for fan and motor. May be ordered with spring isolators and motor slide base.

Inlet Box/ Inlet Box Damper

An Inlet Box provides smooth aerodynamic airflow into the fan inlet. The Inlet Box is designed as a bolt-on accessory to the fan. Inlet Dampers also are available in conjunction with the Inlet Box for efficient air volume control.

Coupling/ Shaft and Bearing Guard

The coupling guard encloses the coupling from the face of the motor to the outboard bearing. The shaft and bearing guard encloses the shaft and bearings from the inboard bearing to just beyond the outboard bearing.

Raised Access Door

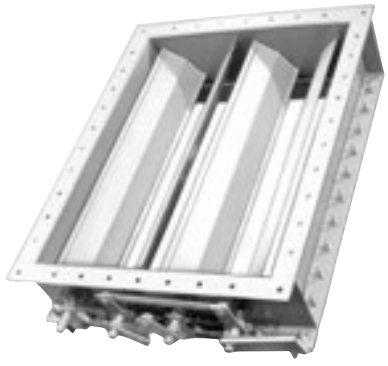
Access door raised 6" beyond scroll surface to provide room for insulation on exterior of fan housing. Insulated door plug surface is flush with inside of housing scroll.

Quick Release Access Door

Access door mounted flush to the fan scroll and secured with quick release handles. Hinged door available as option.

Outlet Damper

Outlet Dampers are the least expensive air volume control device but are less efficient than an Inlet Box with an Inlet Damper. Northern Blower Outlet Dampers have punched flanges on both ends to allow for convenient fan and duct connections. Opposed blade designs are available for operating temperatures to 800°F.



Cooling Wheel

Split aluminum wheel mounted between the inboard bearing and the fan housing. Protects the inboard bearing from shaft conveyed heat and housing radiated heat. Supplied with protective guard as standard. Required for high temperature application; see Page 6.

Belt Guard

Enclosed on all sides for safe operation and vented to prevent overheating. Tachometer holes, hinged cover, and safety colour coatings also available.

Additional Accessories

- Protective Coatings
- Special Metals
- High Temperature Construction
- Extended Grease Fittings
- Insulation Clips
- Mounted Drive Package
- Blade and Housing Liners
- Abrasion Resistant

Series 8800

Due to the wide variety of radial tip fans available from Northern Blower, we are unable to publish all information in one bulletin. Further information on custom fans is available from your Northern Blower representative.

Series 8800 design numbers designate the use of evasés and inlet boxes.

Series 8800 Designs		
Design	**Evasé**	**Inlet Box**
8810	No	No
8811	No	Yes
8812	Yes	No
8813	Yes	Yes

Fan Selection at Elevated Temperature and Altitude

Fan Selection Table

Ratings shown in the Performance Tables are based on standard air density of .075 pounds per cubic foot at the fan Inlet. Standard air is dry air at 70°F and 29.92" Hg barometric pressure. When air density varies from standard, due to temperature or altitude changes, the Air Density Correction Factor from Table 2 is applied. Refer to the sample selection that follows.

Note that data in the selection tables is based on a fan with evasé and does not include the effects of accessories such as inlet dampers, inlet boxes, outlet dampers, or other components in the air stream.

High Temperature

High temperature operating limits are 300°F without a cooling wheel and 800°F with a cooling wheel and shaft seal. For selection, both fan performance and physical operating limits must be corrected. Refer to the sample selection on the following page.

Table 1

Wheel & Shaft Maximum Speeds at 70ºF		
Size	Shaft	Wheel
2700	2971	3336
3000	2674	2968
3300	2431	2671
3650	2198	2395
4025	1993	2148
4450	1803	2003
4900	1637	1733
5425	1479	1547
5712	1404	1461
6000	1337	1384

Table 2

Air Density Correction Factor							
Air Temp ºF	Elevation (Feet) above Sea Level						
	0	500	1000	2000	3000	4000	5000
-40º	.79	.81	.82	.85	.88	.92	.95
0º	.87	.88	.90	.93	.97	1.00	1.04
40º	.94	.96	.98	1.01	1.05	1.09	1.13
70º	1.00	1.02	1.04	1.08	1.12	1.16	1.20
100º	1.06	1.08	1.10	1.14	1.18	1.22	1.27
140º	1.13	1.15	1.17	1.22	1.26	1.31	1.36
180º	1.21	1.23	1.25	1.30	1.35	1.40	1.45
200º	1.25	1.27	1.29	1.34	1.39	1.44	1.50
250º	1.34	1.36	1.39	1.44	1.49	1.55	1.61
300º	1.43	1.46	1.49	1.54	1.60	1.66	1.72
350º	1.53	1.56	1.58	1.64	1.71	1.77	1.84
400º	1.62	1.65	1.68	1.75	1.81	1.88	1.95
450º	1.72	1.75	1.78	1.85	1.92	1.99	2.06
500º	1.81	1.84	1.88	1.95	2.02	2.10	2.18
600º	2.00	2.04	2.07	2.15	2.23	2.32	2.40
700º	2.19	2.23	2.27	2.35	2.44	2.53	2.63
800º	2.38	2.42	2.46	2.56	2.65	2.75	2.86

Table 3

Safe Speed Deration Factors		
Temp ºF	Alloy Steel Wheel	Steel Shaft
-50 to 150	1.0	1.0
200	.97	1.0
300	.96	1.0
400	.95	.99
500	.94	.97
600	.92	.96
700	.87	.95
800	.68	.94

Sample Selection of a Belt Drive Fan

Select a fan for the operating conditions of 20,000 CFM at 10" SP, 500°F and 1000 feet elevation.

1) Multiply the Operating SP by the Air Density Correction Factor (Table 2) to obtain Equivalent SP:

   Equivalent SP = Operating SP x Air Density Corr. Factor
   = 10" x 1.88 = 18.8"

2) From the Performance Tables, select the fan size. For 20,000 CFM at 18.8" SP an efficient selection would be a size 3300 fan. Interpolating from the Performance Table given on page 10, the selected fan performance is 2006 RPM and 77.9 BHP at standard temperature and pressure.

3) Divide the Equivalent BHP by the Air Density Correction Factor to obtain the Operating BHP:

$$\text{Operating BHP} = \frac{\text{Equivalent BHP}}{\text{Air Density Correction Factor}}$$

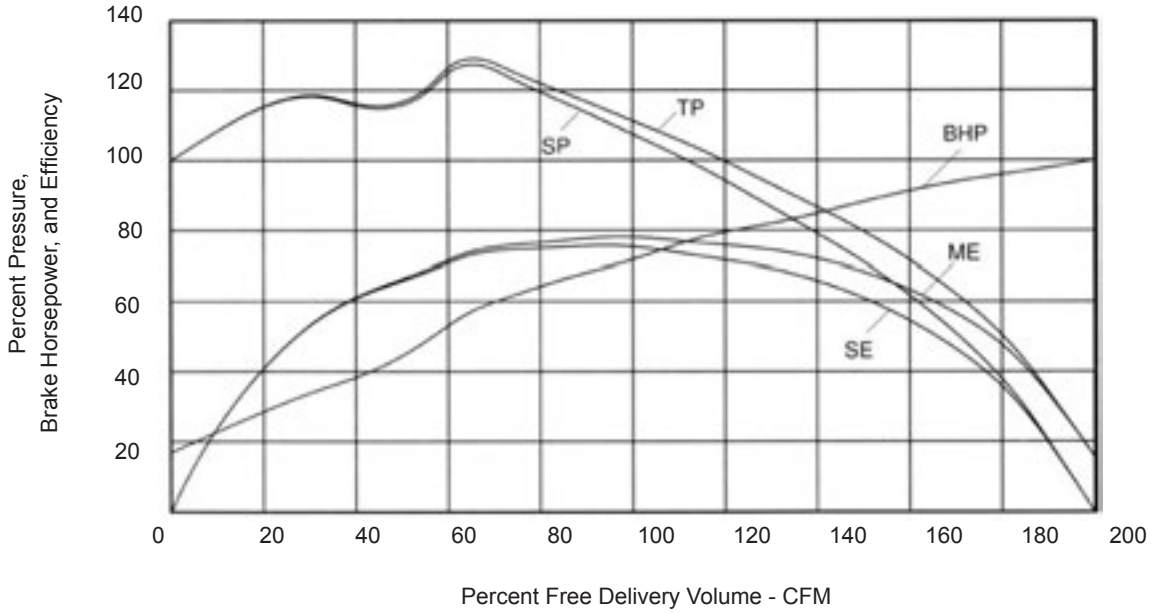
$$= \frac{77.9}{1.88} = 41.4 \text{ BHP}$$

4) Multiply the Wheel & Shaft Maximum Speed at 70°F values (Table 1) by the Wheel & Shaft Safe Speed Deration Factors (Table 3). Fan size 3300, the maximum speed at 500°F is:

   Wheel = 2671 x 0.94 = 2511 RPM
   Shaft = 2431 x 0.97 = 2358 RPM

   Since the fan selection speed of 2006 RPM is below **both** the maximum allowable wheel and shaft speeds, the fan is a suitable selection.

Design 8812 Performance Curve



Size

2700 SISW

Design 8812 Radial Tip Fans

Wheel Diameter = 27.00 in.
Outlet Area = 4.21 sq. ft. inside
Maximum Speed = 2971 RPM
Tip Speed, fpm = 7.07 x RPM

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9000	2136	1831	21.0	1898	23.0	1961	24.9														
9500	2255	1850	22.1	1916	24.2	1979	26.2	2039	28.3												
10000	2373	1870	23.3	1935	25.4	1998	27.6	2057	29.7	2116	31.8	2173	34.0								
10500	2492	1889	24.5	1954	26.6	2017	28.9	2077	31.1	2134	33.3	2192	35.7	2245	37.8						
11000	2611	1909	25.8	1974	28.0	2036	30.2	2097	32.5	2153	34.8	2210	37.2	2263	39.5	2317	41.9	2368	44.3		
11500	2729	1930	27.2	1994	29.4	2056	31.7	2116	34.0	2173	36.4	2228	38.8	2283	41.3	2334	43.7	2387	46.2	2436	48.6
12000	2848	1950	28.7	2014	30.9	2075	33.2	2135	35.6	2193	38.0	2247	40.4	2302	43.0	2353	45.5	2405	48.1	2454	50.6
12500	2967	1972	30.1	2035	32.5	2096	34.9	2154	37.3	2212	39.7	2268	42.2	2321	44.7	2374	47.4	2423	49.9	2474	52.7
13000	3085	1993	31.6	2056	34.1	2117	36.6	2175	39.1	2231	41.5	2288	44.1	2340	46.6	2393	49.3	2443	51.9	2492	54.6
13500	3204	2016	33.1	2077	35.7	2137	38.3	2196	40.9	2252	43.4	2307	46.0	2361	48.7	2412	51.3	2464	54.0	2511	56.7
14000	3323	2040	34.6	2100	37.3	2159	40.0	2216	42.7	2273	45.4	2326	48.0	2380	50.7	2432	53.4	2482	56.1	2531	58.9
14500	3441	2064	36.2	2124	39.0	2181	41.8	2238	44.6	2293	47.4	2348	50.2	2400	52.9	2452	55.7	2501	58.4	2551	61.2
15000	3560	2088	37.7	2147	40.6	2205	43.6	2261	46.5	2315	49.4	2368	52.3	2421	55.1	2471	57.9	2522	60.8	2570	63.6
15500	3679	2112	39.4	2171	42.4	2228	45.4	2284	48.4	2338	51.4	2390	54.4	2442	57.4	2492	60.3	2542	63.2	2590	66.2
16000	3797	2137	41.2	2196	44.2	2252	47.2	2307	50.3	2360	53.4	2413	56.6	2463	59.6	2514	62.7	2562	65.7	2611	68.7
16500	3916	2161	43.0	2220	46.0	2277	49.2	2331	52.3	2384	55.5	2435	58.7	2486	61.9	2535	65.0	2584	68.3	2631	71.3
17000	4034	2187	44.9	2245	48.0	2301	51.1	2355	54.4	2408	57.7	2459	60.9	2508	64.2	2558	67.5	2605	70.7	2653	74.1
17500	4153	2212	46.9	2270	50.1	2326	53.2	2380	56.5	2432	59.8	2483	63.2	2532	66.5	2580	69.9	2628	73.3	2674	76.6
18000	4272	2237	49.0	2295	52.2	2350	55.4	2405	58.7	2456	62.1	2506	65.4	2556	68.9	2604	72.4	2650	75.9	2697	79.3
18500	4390	2264	51.2	2320	54.4	2375	57.7	2429	61.0	2481	64.4	2532	67.9	2580	71.3	2628	74.9	2674	78.5	2720	82.0
19000	4509	2290	53.5	2346	56.7	2401	60.0	2454	63.4	2505	66.8	2555	70.3	2605	73.9	2651	77.5	2698	81.1	2743	84.8
19500	4628	2318	55.9	2373	59.2	2426	62.5	2479	65.9	2530	69.4	2580	72.9	2628	76.5	2676	80.2	2721	83.8	2767	87.6
20000	4746	2346	58.4	2399	61.7	2452	65.1	2504	68.5	2555	72.0	2605	75.6	2654	79.3	2700	82.9	2746	86.7	2790	90.4
20500	4865	2375	61.0	2427	64.3	2479	67.7	2530	71.2	2581	74.8	2630	78.4	2677	82.0	2725	85.8	2770	89.5	2815	93.4
21000	4984	2403	63.6	2455	67.0	2506	70.5	2557	74.1	2606	77.6	2655	81.3	2703	85.0	2749	88.7	2795	92.6	2839	96.4
21500	5102	2434	66.4	2484	69.9	2533	73.4	2583	76.9	2632	80.6	2680	84.3	2727	88.0	2774	91.8	2819	95.6	2864	99.6
22000	5221	2464	69.3	2513	72.8	2562	76.4	2611	80.0	2658	83.6	2706	87.4	2753	91.2	2799	95.0	2844	98.9	2888	102.8
22500	5340	2494	72.3	2543	75.9	2591	79.5	2638	83.1	2686	86.8	2732	90.6	2778	94.4	2824	98.3	2869	102.2	2913	106.2
23000	5458	2526	75.5	2573	79.0	2620	82.7	2667	86.4	2713	90.1	2759	93.9	2805	97.8	2849	101.7	2894	105.7	2937	109.7
23500	5577	2557	78.7	2604	82.3	2650	86.0	2695	89.7	2741	93.5	2787	97.4	2831	101.3	2876	105.2	2919	109.2	2962	113.3
24000	5696	2590	82.0	2635	85.7	2680	89.4	2725	93.2	2770	97.1	2814	100.9	2858	104.9	2902	108.9	2945	112.9		
24500	5814	2622	85.5	2667	89.2	2711	93.0	2755	96.9	2799	100.7	2842	104.6	2886	108.6	2929	112.6				
25000	5933	2655	89.1	2699	92.9	2742	96.7	2785	100.5	2828	104.5	2871	108.5	2914	112.5	2956	116.6				
25500	6052	2689	92.8	2732	96.6	2774	100.5	2816	104.4	2858	108.4	2900	112.4	2943	116.5						
26000	6170	2723	96.7	2764	100.5	2806	104.4	2848	108.4	2889	112.4	2930	116.5								
26500	6289	2757	100.6	2798	104.5	2839	108.5	2879	112.5	2920	116.6	2960	120.6								
27000	6408	2791	104.7	2832	108.7	2871	112.7	2911	116.7	2951	120.8										
27500	6526	2826	109.0	2865	112.9	2905	117.0	2944	121.1												
28000	6645	2862	113.3	2900	117.3	2938	121.5														
28500	6764	2897	117.8	2934	121.9																
29000	6882	2933	122.5	2970	126.6																

Volume	O.Vel	21"SP		22"SP		23"SP		24"SP		25"SP		26"SP		27"SP		28"SP		29"SP		30"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10500	2492	2449	46.9																		
11000	2611	2467	49.0	2516	51.4	2561	53.8														
11500	2729	2485	51.1	2533	53.6	2579	56.0	2626	58.6	2669	61.0										
12000	2848	2504	53.3	2550	55.7	2598	58.4	2643	60.9	2687	63.4	2732	66.1	2774	68.7						
12500	2967	2521	55.3	2569	57.9	2616	60.7	2660	63.3	2706	66.0	2749	68.7	2791	71.3	2834	74.0	2875	76.7	2913	79.3
13000	3085	2540	57.3	2588	60.2	2633	62.9	2679	65.7	2723	68.5	2766	71.2	2810	74.0	2852	76.8	2891	79.5	2932	82.3
13500	3204	2561	59.6	2606	62.3	2652	65.2	2697	68.1	2741	70.9	2785	73.8	2827	76.7	2868	79.5	2911	82.4	2951	85.3
14000	3323	2579	61.7	2625	64.6	2672	67.5	2715	70.4	2760	73.4	2803	76.3	2844	79.3	2888	82.4	2928	85.3	2967	88.2
14500	3441	2598	64.0	2646	67.0	2690	69.9	2736	72.9	2779	75.9	2821	78.9	2865	82.1	2905	85.0	2945	88.1		
15000	3560	2619	66.6	2664	69.4	2710	72.4	2754	75.4	2798	78.4	2842	81.7	2882	84.6	2923	87.8	2966	91.1		
15500	3679	2637	69.1	2684	72.0	2730	75.0	2773	78.1	2819	81.2	2859	84.2	2902	87.4	2943	90.7				
16000	3797	2657	71.7	2704	74.8	2749	77.8	2795	80.9	2836	83.9	2879	87.1	2921	90.3	2961	93.5				
16500	3916	2679	74.5	2723	77.5	2770	80.7	2813	83.7	2857	86.9	2899	90.1	2940	93.3						
17000	4035	2698	77.2	2745	80.5	2789	83.6	2833	86.8	2876	90.0	2918	93.2	2961	96.5						
17500	4153	2720	80.0	2765	83.3	2809	86.6	2853	89.9	2896	93.1	2939	96.5								
18000	4272	2742	82.8	2786	86.2	2830	89.6	2873	93.0	2917	96.4	2957	99.7								
18500	4390	2764	85.6	2808	89.1	2851	92.6	2895	96.2	2936	99.6										
19000	4509	2787	88.4	2831	92.1	2874	95.8	2916	99.3	2959	103.0										
19500	4628	2810	91.3	2854	95.1	2896	98.8	2939	102.6												
20000	4746	2835	94.3	2877	98.0	2920	101.9	2960	105.7												
20500	4865	2858	97.2	2901	101.2	2942	105.0														
21000	4984	2883	100.3	2925	104.3	2967	108.3														
21500	5102	2907	103.5	2949	107.5																
22000	5221	2931	106.8																		

Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Performance shown is for installation type B-Free inlet, Ducted outlet.

Wheel Diameter = 30.00 in.
Outlet Area = 5.20 sq. ft. inside
Maximum Speed = 2674 RPM
Tip Speed, fpm = 7.85 x RPM

Size

3000 SISW

Design 8812 Radial Tip Fans

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11000	2115	1645	25.7	1704	28.1																
11500	2211	1659	26.8	1718	29.3	1775	31.8														
12000	2307	1674	28.0	1732	30.5	1788	33.1	1843	35.7	1895	38.3										
12500	2403	1688	29.1	1747	31.7	1802	34.4	1856	37.0	1910	39.8	1959	42.4								
13000	2499	1702	30.3	1760	33.0	1817	35.7	1870	38.5	1922	41.2	1973	44.1	2021	46.8						
13500	2595	1716	31.7	1774	34.3	1830	37.1	1885	39.9	1936	42.7	1986	45.6	2035	48.6	2083	51.5	2129	54.4		
14000	2691	1731	33.1	1789	35.8	1844	38.5	1898	41.4	1951	44.3	2000	47.2	2049	50.3	2096	53.2	2143	56.3	2187	59.2
14500	2787	1745	34.4	1803	37.2	1860	40.1	1912	42.9	1964	45.9	2015	48.9	2062	51.9	2111	55.1	2155	58.1	2202	61.4
15000	2883	1761	35.9	1818	38.8	1873	41.6	1927	44.6	1978	47.5	2028	50.6	2077	53.7	2123	56.8	2170	60.1	2214	63.2
15500	2980	1777	37.4	1833	40.4	1888	43.3	1941	46.3	1993	49.3	2042	52.4	2091	55.5	2138	58.7	2183	61.9	2228	65.2
16000	3076	1792	38.8	1848	41.9	1903	45.0	1956	48.0	2007	51.1	2057	54.2	2105	57.4	2152	60.6	2197	63.9	2242	67.2
16500	3172	1809	40.3	1864	43.5	1918	46.7	1971	49.9	2022	53.0	2071	56.1	2120	59.4	2166	62.6	2212	65.9	2255	69.3
17000	3268	1826	41.8	1881	45.2	1934	48.5	1986	51.7	2036	54.9	2086	58.2	2133	61.4	2181	64.7	2225	68.0	2270	71.5
17500	3364	1843	43.3	1897	46.8	1950	50.2	2002	53.6	2051	56.9	2100	60.2	2149	63.6	2194	66.9	2241	70.3	2284	73.7
18000	3460	1861	44.9	1915	48.4	1966	51.9	2017	55.4	2067	58.9	2116	62.3	2163	65.7	2210	69.2	2254	72.5	2299	76.1
18500	3556	1878	46.5	1932	50.1	1984	53.7	2034	57.3	2083	60.9	2131	64.4	2178	68.0	2224	71.4	2270	75.0	2312	78.4
19000	3652	1896	48.2	1949	51.8	2000	55.5	2050	59.2	2100	63.0	2146	66.6	2193	70.2	2239	73.8	2283	77.4	2328	81.0
19500	3749	1914	49.9	1967	53.6	2019	57.4	2068	61.1	2115	64.9	2163	68.7	2209	72.5	2254	76.2	2299	79.9	2342	83.5
20000	3845	1932	51.7	1985	55.4	2036	59.2	2085	63.1	2133	67.0	2179	70.8	2225	74.7	2270	78.6	2313	82.3	2357	86.2
20500	3941	1950	53.6	2003	57.3	2054	61.2	2102	65.1	2150	69.0	2196	73.1	2241	77.0	2285	80.9	2330	84.9	2372	88.7
21000	4037	1968	55.5	2021	59.3	2071	63.2	2120	67.2	2168	71.2	2213	75.2	2258	79.3	2302	83.4	2345	87.4	2388	91.5
21500	4133	1987	57.5	2039	61.3	2090	65.3	2138	69.3	2185	73.3	2231	77.5	2275	81.7	2318	85.8	2362	90.0	2403	94.0
22000	4229	2005	59.6	2057	63.4	2107	67.4	2156	71.5	2203	75.6	2248	79.8	2292	84.0	2336	88.3	2378	92.5	2420	96.9
22500	4325	2024	61.7	2076	65.6	2126	69.7	2174	73.7	2220	77.9	2266	82.1	2310	86.5	2353	90.7	2396	95.2	2436	99.4
23000	4421	2044	64.0	2094	67.9	2143	71.9	2192	76.1	2239	80.3	2284	84.6	2327	88.9	2371	93.4	2412	97.7	2453	102.2
23500	4517	2063	66.2	2113	70.2	2162	74.3	2210	78.5	2256	82.7	2301	87.0	2346	91.5	2388	95.9	2430	100.4	2470	104.9
24000	4614	2083	68.7	2133	72.7	2181	76.8	2228	81.0	2274	85.3	2320	89.7	2363	94.0	2406	98.6	2447	103.1	2487	107.7
24500	4710	2103	71.1	2152	75.2	2200	79.3	2247	83.6	2293	87.9	2337	92.3	2381	96.8	2423	101.3	2464	105.9	2505	110.5
25000	4806	2124	73.6	2172	77.8	2219	82.0	2265	86.2	2311	90.6	2356	95.1	2399	99.5	2441	104.1	2482	108.8	2522	113.4
25500	4902	2145	76.3	2192	80.4	2238	84.7	2284	89.0	2330	93.4	2373	97.8	2417	102.4	2459	107.0	2500	111.7	2541	116.5
26000	4998	2166	79.0	2213	83.2	2258	87.5	2304	91.8	2348	96.2	2392	100.8	2435	105.4	2477	110.0	2518	114.8	2558	119.5
26500	5094	2188	81.8	2234	86.0	2278	90.3	2323	94.7	2367	99.2	2411	103.8	2453	108.4	2495	113.1	2536	117.8	2576	122.6
27000	5190	2210	84.6	2255	88.9	2299	93.3	2343	97.8	2386	102.3	2429	106.8	2472	111.5	2513	116.2	2554	121.0	2594	125.9
27500	5286	2232	87.6	2276	92.0	2320	96.4	2363	100.9	2406	105.4	2449	110.1	2490	114.7	2531	119.5	2572	124.3	2611	129.2
28000	5382	2255	90.7	2298	95.1	2341	99.5	2383	104.0	2426	108.7	2468	113.3	2509	118.0	2550	122.9	2590	127.7	2630	132.7
28500	5479	2278	93.8	2320	98.2	2362	102.8	2405	107.4	2446	112.0	2487	116.7	2529	121.5	2568	126.2	2609	131.2	2647	136.1
29000	5575	2301	97.0	2343	101.5	2385	106.1	2425	110.7	2466	115.4	2508	120.2	2547	124.9	2588	129.8	2627	134.7	2666	139.7

Volume	O.Vel	21"SP		22"SP		23"SP		24"SP		25"SP		26"SP		27"SP		28"SP		29"SP		30"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13000	2499	2205	58.1																		
13500	2595	2218	60.1	2263	63.2	2302	66.0														
14000	2691	2233	62.4	2274	65.2	2316	68.3	2358	71.4	2396	74.3										
14500	2787	2244	64.3	2288	67.5	2330	70.6	2370	73.6	2411	76.9	2449	79.9								
15000	2883	2258	66.5	2301	69.7	2342	72.8	2385	76.2	2423	79.3	2462	82.5	2503	85.9	2538	88.9				
15500	2980	2271	68.5	2313	71.8	2357	75.3	2396	78.4	2437	81.8	2476	85.2	2513	88.3	2552	91.7	2590	95.2	2624	98.3
16000	3076	2285	70.6	2328	74.1	2368	77.4	2410	80.9	2449	84.3	2488	87.6	2528	91.2	2565	94.5	2601	97.8	2638	101.3
16500	3172	2299	72.8	2341	76.2	2383	79.8	2422	83.2	2462	86.7	2503	90.4	2539	93.7	2577	97.2	2617	101.0	2651	104.2
17000	3268	2313	74.9	2356	78.5	2396	82.0	2437	85.6	2476	89.2	2514	92.7	2554	96.5	2591	100.0	2627	103.6	2664	107.3
17500	3364	2328	77.3	2369	80.7	2411	84.4	2450	88.0	2489	91.6	2530	95.5	2566	99.0	2603	102.7	2642	106.7		
18000	3460	2341	79.5	2384	83.2	2424	86.7	2464	90.5	2504	94.2	2542	97.9	2580	101.8	2617	105.5	2653	109.3		
18500	3556	2357	82.1	2397	85.6	2439	89.3	2478	93.0	2517	96.7	2557	100.7	2593	104.4	2630	108.3	2668	112.3		
19000	3652	2370	84.5	2412	88.3	2452	91.9	2493	95.7	2532	99.5	2570	103.2	2608	107.2	2645	111.1				
19500	3749	2385	87.3	2426	90.9	2467	94.7	2507	98.4	2546	102.2	2585	106.2	2621	110.0	2658	114.0				
20000	3845	2399	89.9	2441	93.7	2481	97.4	2521	101.3	2560	105.1	2598	109.0	2637	113.0	2672	116.9				
20500	3941	2415	92.7	2455	96.4	2496	100.4	2535	104.2	2574	108.1	2613	112.1	2649	115.9						
21000	4037	2429	95.4	2471	99.4	2510	103.2	2550	107.2	2589	111.2	2626	115.1	2665	119.2						
21500	4133	2445	98.3	2485	102.2	2526	106.3	2564	110.3	2603	114.3	2641	118.4								
22000	4229	2460	100.9	2501	105.3	2540	109.2	2580	113.5	2618	117.5	2655	121.6								
22500	4325	2477	103.8	2516	108.0	2557	112.4	2594	116.5	2633	120.8	2670	125.0								
23000	4421	2493	106.5	2533	111.1	2571	115.3	2611	119.9	2648	124.0										
23500	4517	2510	109.4	2549	113.9	2588	118.5	2625	122.9	2664	127.5										
24000	4614	2527	112.3	2566	116.9	2604	121.5	2642	126.2												
24500	4710	2544	115.2	2583	119.9	2621	124.6	2658	129.3												
25000	4806	2562	118.2	2600	122.9	2638	127.8														
25500	4902	2579	121.2	2618	126.2	2655	130.9														
26000	4998	2597	124.4	2635	129.2	2673	134.2														
26500	5094	2614	127.5	2653	132.5																
27000	5190	2632	130.8	2670	135.8																
27500	5286	2651	134.2																		
28000	5382	2668	137.6																		

Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Performance shown is for installation type B-Free inlet, Ducted outlet.

Size

3300 SISW

Design 8812 Radial Tip Fans

Wheel Diameter = 33.00 in.
Outlet Area = 6.29 sq. ft. inside
Maximum Speed = 2431 RPM
Tip Speed, fpm = 8.64 x RPM

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13000	2065	1493	30.0	1546	32.7																
13500	2145	1502	31.0	1557	33.9	1608	36.8														
14000	2224	1513	32.1	1566	35.0	1618	38.1	1668	41.1												
14500	2304	1524	33.2	1577	36.3	1628	39.3	1678	42.4	1726	45.5										
15000	2383	1534	34.3	1587	37.5	1639	40.7	1688	43.8	1736	47.0	1782	50.2								
15500	2462	1545	35.6	1598	38.7	1649	41.9	1699	45.2	1746	48.4	1792	51.8	1837	55.0						
16000	2542	1556	36.8	1610	40.0	1660	43.2	1708	46.5	1757	50.0	1802	53.3	1847	56.7	1890	60.1				
16500	2621	1566	38.1	1619	41.3	1671	44.6	1720	48.0	1766	51.4	1813	54.9	1857	58.3	1901	61.9	1942	65.3		
17000	2701	1578	39.5	1631	42.8	1681	46.0	1730	49.4	1778	53.0	1822	56.4	1867	60.1	1910	63.6	1953	67.3	1993	70.8
17500	2780	1589	40.9	1641	44.2	1692	47.6	1741	51.0	1787	54.5	1834	58.1	1877	61.7	1921	65.4	1962	69.0	2004	72.9
18000	2860	1600	42.3	1652	45.7	1703	49.1	1751	52.6	1799	56.1	1844	59.7	1889	63.5	1931	67.1	1973	71.0	2013	74.7
18500	2939	1612	43.8	1664	47.3	1714	50.8	1762	54.2	1809	57.8	1856	61.5	1898	65.1	1942	69.0	1983	72.8	2024	76.7
19000	3019	1623	45.2	1675	48.8	1725	52.4	1773	56.0	1821	59.6	1865	63.2	1910	67.0	1952	70.8	1994	74.7	2034	78.6
19500	3098	1636	46.7	1687	50.4	1737	54.1	1784	57.7	1831	61.4	1877	65.1	1920	68.8	1963	72.7	2004	76.6	2045	80.7
20000	3177	1648	48.1	1698	51.9	1747	55.7	1796	59.5	1842	63.3	1887	67.0	1931	70.8	1973	74.7	2015	78.7	2055	82.7
20500	3257	1661	49.6	1711	53.6	1760	57.5	1807	61.3	1853	65.1	1899	69.0	1941	72.8	1984	76.8	2025	80.7	2066	84.8
21000	3336	1674	51.1	1723	55.1	1771	59.1	1818	63.1	1865	67.1	1909	71.0	1953	74.9	1995	78.9	2036	82.9	2077	87.0
21500	3416	1687	52.6	1736	56.8	1784	60.9	1830	65.0	1875	69.0	1921	73.1	1963	77.0	2006	81.1	2047	85.2	2087	89.2
22000	3495	1700	54.2	1749	58.4	1796	62.6	1842	66.8	1888	71.1	1931	75.1	1975	79.2	2017	83.3	2058	87.4	2098	91.6
22500	3575	1713	55.8	1762	60.0	1810	64.4	1855	68.7	1899	72.9	1943	77.2	1986	81.4	2028	85.6	2069	89.9	2108	94.0
23000	3654	1727	57.4	1775	61.7	1822	66.1	1867	70.5	1912	75.0	1955	79.3	1997	83.6	2040	88.0	2079	92.2	2120	96.6
23500	3733	1740	59.1	1788	63.5	1835	67.9	1881	72.5	1924	76.9	1967	81.4	2010	85.9	2050	90.2	2091	94.7	2130	98.9
24000	3813	1754	60.9	1802	65.3	1848	69.8	1893	74.3	1937	78.9	1980	83.6	2021	88.0	2063	92.7	2102	97.1	2142	101.6
24500	3892	1767	62.6	1815	67.1	1862	71.6	1907	76.3	1950	81.0	1992	85.6	2034	90.4	2074	94.9	2114	99.6	2153	104.1
25000	3972	1781	64.5	1829	69.0	1875	73.6	1919	78.3	1963	83.0	2005	87.9	2046	92.5	2086	97.3	2126	102.1	2164	106.7
25500	4051	1794	66.4	1842	70.9	1888	75.6	1933	80.3	1976	85.2	2018	89.9	2059	94.8	2099	99.7	2137	104.5	2177	109.4
26000	4131	1808	68.4	1856	73.0	1902	77.7	1946	82.4	1989	87.2	2031	92.2	2072	97.2	2111	102.0	2151	107.1	2188	111.9
26500	4210	1823	70.4	1870	75.0	1915	79.7	1959	84.5	2003	89.5	2044	94.4	2084	99.4	2124	104.6	2162	109.5	2201	114.6
27000	4289	1836	72.5	1883	77.1	1929	81.9	1973	86.8	2016	91.7	2057	96.7	2098	101.8	2136	106.9	2175	112.1	2213	117.2
27500	4369	1851	74.7	1898	79.4	1943	84.2	1986	89.0	2029	94.0	2071	99.1	2110	104.2	2150	109.4	2188	114.7	2225	119.8
28000	4448	1865	76.9	1911	81.6	1956	86.4	2000	91.3	2043	96.4	2084	101.5	2124	106.6	2163	112.0	2200	117.2	2239	122.6
28500	4528	1880	79.1	1926	83.9	1970	88.8	2014	93.8	2056	98.8	2097	103.9	2138	109.2	2176	114.4	2214	119.9	2251	125.2
29000	4607	1895	81.5	1940	86.3	1984	91.2	2027	96.2	2070	101.3	2111	106.5	2150	111.7	2189	117.1	2227	122.5	2264	127.9
29500	4687	1910	83.9	1955	88.7	1998	93.7	2041	98.7	2084	103.9	2124	109.1	21641	14.4	2203	119.8	2240	125.2	2277	130.8
30000	4766	1926	86.4	1969	91.3	2013	96.3	2055	101.3	2097	106.5	2138	111.7	2178	117.1	2216	122.5	2254	128.1	2290	133.6

Volume	O.Vel	21"SP		22"SP		23"SP		24"SP		25"SP		26"SP		27"SP		28"SP		29"SP		30"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17000	2701	2035	74.6	2072	78.0	2111	81.6	2149	85.3												
17500	2780	2043	76.4	2083	80.2	2121	83.8	2157	87.5	2196	91.4	2229	94.9								
18000	2860	2055	78.7	2092	82.3	2131	86.1	2168	89.9	2204	93.6	2240	97.5	2275	101.3						
18500	2939	2063	80.5	2103	84.6	2140	88.3	2177	92.2	2215	96.3	2249	100.0	2284	103.9	2321	108.0	2352	111.7		
19000	3019	2074	82.7	2112	86.5	2151	90.7	2187	94.6	2223	98.5	2261	102.7	2294	106.5	2328	110.5	2363	114.6	2396	118.6
19500	3098	2084	84.6	2124	88.9	2160	92.8	2197	96.9	2234	101.1	2269	105.0	2305	109.2	2339	113.4	2372	117.3	2405	121.4
20000	3177	2095	86.8	2132	90.9	2172	95.2	2207	99.2	2243	103.4	2280	107.8	2313	111.7	2348	116.0	2384	120.4	2415	124.3
20500	3257	2105	88.9	2144	93.1	2180	97.3	2218	101.7	2253	105.8	2289	110.1	2325	114.6	2358	118.7	2391	122.9	2426	127.4
21000	3336	2116	91.1	2154	95.3	2192	99.7	2227	103.9	2264	108.3	2299	112.7	2333	117.0	2368	121.5	2402	125.8		
21500	3416	2126	93.4	2165	97.7	2202	102.0	2239	106.4	2274	110.7	2309	115.2	2344	119.7	2377	124.0	2411	128.6		
22000	3495	2137	95.8	2175	100.1	2213	104.4	2249	108.8	2286	113.4	2319	117.7	2354	122.3	2389	127.0	2421	131.3		
22500	3575	2148	98.3	2186	102.5	2223	106.9	2260	111.3	2295	115.8	2331	120.5	2364	124.9	2398	129.5				
23000	3654	2158	100.7	2197	105.2	2233	109.5	2270	114.0	2306	118.5	2340	123.0	2376	127.8	2409	132.3				
23500	3733	2170	103.4	2207	107.7	2245	112.3	2281	116.6	2317	121.2	2352	125.8	2385	130.4	2420	135.2				
24000	3813	2180	106.0	2219	110.5	2255	114.9	2293	119.5	2327	124.0	2362	128.6	2397	133.4	2429	138.0				
24500	3892	2191	108.7	2229	113.2	2266	117.8	2302	122.2	2339	127.0	2372	131.5	2407	136.3						
25000	3972	2203	111.4	2240	116.0	2277	120.6	2313	125.2	2348	129.8	2384	134.7	2417	139.3						
25500	4051	2214	114.0	2252	118.9	2288	123.5	2324	128.2	2359	132.9	2394	137.6	2429	142.6						
26000	4131	2226	116.9	2262	121.6	2300	126.6	2335	131.2	2370	136.0	2405	140.8								
26500	4210	2237	119.5	2275	124.6	2310	129.4	2347	134.4	2381	139.1	2416	144.1								
27000	4289	2250	122.3	2286	127.4	2322	132.4	2357	137.3	2393	142.5	2426	147.2								
27500	4369	2262	125.1	2298	130.2	2334	135.4	2369	140.5	2403	145.5										
28000	4448	2274	127.8	2311	133.2	2346	138.3	2381	143.7	2415	148.8										
28500	4528	2287	130.6	2323	136.0	2358	141.5	2392	146.7	2427	152.2										
29000	4607	2300	133.5	2335	138.9	2370	144.4	2405	149.9												
29500	4687	2313	136.3	2349	142.0	2383	147.4	2417	153.1												
30000	4766	2326	139.3	2361	144.8	2396	150.6	2429	156.1												
30500	4846	2339	142.2	2374	147.9	2408	153.6														
31000	4925	2352	145.1	2388	151.0	2421	156.7														
31500	5004	2366	148.3	2400	154.0																
32000	5084	2379	151.4	2413	157.2																
32500	5163	2392	154.5	2427	160.6																
33000	5243	2406	157.9																		

Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Performance shown is for installation type B-Free inlet, Ducted outlet.

Wheel Diameter = 36.50 in.
Outlet Area = 7.70 sq. ft. inside
Maximum Speed = 2198 RPM
Tip Speed, fpm = 9.56 x RPM

Size

3650 SISW

Design 8812 Radial Tip Fans

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16000	2078	1351	36.9	1399	40.2																
16500	2143	1358	37.9	1407	41.5	1454	45.0														
17000	2208	1366	39.0	1414	42.6	1461	46.2														
17500	2273	1374	40.1	1422	43.8	1469	47.5	1543	51.2												
18000	2338	1382	41.2	1429	45.0	1476	48.8	1522	52.7	1564	56.4										
18500	2402	1389	42.4	1438	46.2	1484	50.1	1528	54.0	1572	58.0	1613	61.8								
19000	2467	1397	43.6	1445	47.4	1491	51.3	1537	55.4	1579	59.4	1621	63.5	1661	67.5						
19500	2532	1405	44.9	1454	48.7	1500	52.7	1543	56.7	1587	60.9	1628	65.0	1669	69.1	1708	73.3				
20000	2597	1414	46.2	1461	50.0	1507	54.0	1552	58.2	1594	62.3	1636	66.5	1676	70.8	1715	75.0	1754	79.3		
21000	2727	1430	48.9	1477	52.9	1523	56.9	1568	61.1	1610	65.4	1651	69.7	1692	74.2	1730	78.5	1769	83.1	1805	87.4
22000	2857	1446	51.7	1494	55.9	1539	60.0	1583	64.2	1626	68.6	1667	73.0	1707	77.5	1745	82.1	1784	86.7	1820	91.3
23000	2987	1464	54.7	1510	59.0	1555	63.2	1599	67.6	1642	72.0	1683	76.5	1722	81.0	1761	85.7	1798	90.4	1835	95.3
24000	3117	1482	57.5	1528	62.2	1572	66.6	1615	71.1	1658	75.6	1699	80.2	1738	84.8	1777	89.6	1814	94.3	1851	99.3
25000	3247	1500	60.4	1545	65.3	1590	70.1	1632	74.7	1674	79.4	1715	84.1	1754	88.8	1793	93.6	1830	98.5	1866	103.4
26000	3376	1519	63.4	1564	68.4	1607	73.4	1650	78.4	1691	83.2	1731	88.1	1771	93.0	1808	97.8	1847	102.9	1882	107.8
27000	3506	1539	66.5	1583	71.7	1626	76.9	1667	82.1	1708	87.2	1748	92.2	1787	97.3	1825	102.3	1862	107.4	1898	112.5
28000	3636	1559	69.8	1603	75.1	1645	80.4	1686	85.7	1726	91.2	1765	96.5	1803	101.7	1842	107.0	1878	112.1	1914	117.4
29000	3766	1578	73.2	1622	78.6	1665	84.1	1705	89.5	1744	95.1	1783	100.7	1821	106.1	1858	111.6	1895	117.0	1930	122.3
30000	3896	1598	76.7	1642	82.2	1684	87.8	1724	93.5	1763	99.2	1801	104.9	1839	110.7	1875	116.3	1912	122.0	1947	127.5
31000	4026	1619	80.5	1662	86.0	1703	91.7	1744	97.4	1783	103.3	1820	109.2	1857	115.1	1894	121.1	1929	126.8	1965	132.8
32000	4156	1639	84.4	1682	90.1	1724	95.8	1763	101.6	1802	107.6	1840	113.7	1876	119.7	1912	125.8	1948	131.9	1982	137.9
33000	4285	1660	88.6	1702	94.2	1743	100.1	1784	106.0	1822	112.0	1859	118.1	1896	124.4	1931	130.6	1966	136.9	2000	143.2
34000	4415	1681	92.9	1723	98.7	1763	104.5	1803	110.5	1842	116.7	1879	122.9	1915	129.2	1951	135.7	1985	142.0	2019	148.5
35000	4545	1703	97.4	1744	103.3	1784	109.3	1823	115.4	1861	121.5	1899	127.8	1935	134.3	1970	140.7	2005	147.4	2037	153.9
36000	4675	1725	102.2	1765	108.1	1805	114.2	1844	120.3	1882	126.7	1919	133.0	1954	139.4	1990	146.1	2023	152.7	2057	159.6
37000	4805	1748	107.2	1787	113.2	1826	119.3	1864	125.5	1902	131.9	1939	138.4	1974	144.9	2009	151.5	2044	158.4	2076	165.1
38000	4935	1771	112.4	1810	118.4	1848	124.6	1886	131.0	1923	137.4	1959	143.9	1994	150.6	2029	157.3	2063	164.1	2096	171.1
39000	5065	1795	117.8	1833	124.0	1870	130.3	1907	136.6	1943	143.1	1980	149.8	2014	156.4	2049	163.2	2083	170.2	2115	177.1
40000	5194	1820	129.3	1880	135.7	1916	142.1	1951	148.6	1987	155.3	2022	162.1	2056	168.9	2090	175.9	2123	182.9	2155	190.0
42000	5454	1870	135.4	1905	141.8	1940	148.4	1974	155.1	2009	161.8	2043	168.6	2077	175.6	2110	182.6	2143	189.7	2175	196.9
43000	5584	1895	141.7	1930	148.3	1964	155.0	1998	161.6	2031	168.5	2065	175.5	2098	182.4	2131	189.5	2164	196.7	2195	204.0
44000	5714	1922	148.4	1955	155.0	1988	161.7	2022	168.5	2055	175.5	2087	182.4	2120	189.5	2153	196.7	2184	204.0		
45000	5844	1948	155.2	1981	161.9	2013	168.8	2046	175.7	2078	182.6	2111	189.8	2142	196.9	2174	204.1				
46000	5974	1975	162.3	2007	169.2	2039	176.1	2071	183.0	2103	190.2	2134	197.3	2165	204.5	2197	211.9				
47000	6104	2002	169.7	2033	176.6	2064	183.6	2096	190.8	2127	197.9	2158	205.1	2189	212.5						
48000	6233	2029	177.3	2060	184.3	2091	191.5	2121	198.6	2152	205.9	2182	213.3								
49000	6363	2057	185.2	2087	192.4	2117	199.6	2147	206.8	2177	214.3										
50000	6493	2085	193.5	2115	200.7	2144	207.9	2173	215.4												
51000	6623	2114	202.1	2142	209.3	2171	216.7														
52000	6753	2142	210.9	2170	218.2																
53000	6883	2171	220.0																		

Volume	O.Vel	21"SP		22"SP		23"SP		24"SP		25"SP		26"SP		27"SP		28"SP		29"SP		30"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	2597	1827	87.7	1864	92.2																
21000	2727	1842	91.9	1877	96.3	1911	100.7	1946	105.3	1978	109.6										
22000	2857	1857	96.1	1891	100.5	1926	105.3	1960	109.9	1992	114.4	2025	119.2	2057	123.9						
23000	2987	1871	100.0	1906	104.9	1941	109.9	1974	114.5	2007	119.4	2040	124.3	2070	129.0	2102	133.9	2134	139.0	2161	143.5
24000	3117	1886	104.1	1922	109.3	1955	114.2	1988	119.2	2022	124.4	2053	129.2	2085	134.3	2118	139.6	2146	144.3	2176	149.3
25000	3247	1902	108.4	1937	113.6	1970	118.6	2005	124.1	2036	129.1	2068	134.3	2101	139.8	2130	144.7	2161	150.0	2192	155.5
26000	3376	1919	113.0	1952	118.0	1986	123.4	2019	128.6	2051	133.9	2084	139.6	2114	144.7	2145	150.2	2177	155.9		
27000	3506	1933	117.6	1968	122.8	2002	128.2	2034	133.5	2068	139.1	2098	144.5	2129	150.0	2161	155.9	2190	161.2		
28000	3636	1949	122.5	1984	128.0	2017	133.2	2051	138.7	2082	144.2	2114	149.7	2146	155.6	2175	161.1				
29000	3766	1966	127.8	1999	133.1	2033	138.6	2066	144.1	2098	149.6	2131	155.5	2160	161.0	2191	166.8				
30000	3896	1982	133.1	2016	138.6	2050	144.2	2082	149.7	2115	155.5	2145	161.1	2176	166.8						
31000	4026	1998	138.4	2033	144.3	2065	149.9	2099	155.8	2130	161.4	2161	167.2	2193	173.1						
32000	4156	2016	144.0	2049	149.9	2082	155.9	2114	161.7	2146	167.6	2178	173.6								
33000	4285	2033	149.4	2066	155.6	2099	161.8	2131	167.8	2163	174.1	2193	179.9								
34000	4415	2052	154.9	2084	161.4	2116	167.7	2148	174.2	2179	180.3										
35000	4545	2071	160.6	2102	167.1	2135	173.9	2165	180.3	2197	187.0										
36000	4675	2089	166.2	2122	173.2	2152	179.8	2184	186.7												
37000	4805	2109	172.2	2140	178.9	2172	186.1														
38000	4935	2128	178.0	2160	185.2	2190	192.2														
39000	5065	2148	184.3	2179	191.4																
40000	5194	2167	190.6																		
41000	5324	2187	197.3																		

Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Performance shown is for installation type B-Free inlet, Ducted outlet.

Size

4025 SISW

Design 8812 Radial Tip Fans

Wheel Diameter = 40.25 in.
Outlet Area = 9.36 sq. ft. inside
Maximum Speed = 1993 RPM
Tip Speed = 10.5 x RPM

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
19000	2029	1220	43.8																		
20000	2136	1231	45.9	1275	50.3	1318	54.5														
21000	2243	1242	48.1	1286	52.6	1329	57.2	1369	61.5												
22000	2349	1254	50.4	1298	54.9	1340	59.6	1381	64.3	1419	68.9										
23000	2456	1266	52.8	1309	57.4	1351	62.2	1392	67.1	1431	71.9	1469	76.8	1506	81.7						
24000	2563	1278	55.3	1322	60.0	1363	64.8	1403	69.8	1443	74.9	1479	79.9	1517	85.1	1552	90.1				
25000	2670	1290	58.0	1334	62.8	1375	67.7	1415	72.7	1454	77.9	1491	83.1	1527	88.3	1563	93.7	1597	98.9	1631	104.2
26000	2777	1302	60.7	1345	65.6	1387	70.7	1427	75.7	1465	80.9	1503	86.3	1539	91.7	1574	97.2	1608	102.6	1643	108.2
27000	2883	1315	63.6	1357	68.7	1399	73.8	1439	79.0	1477	84.2	1514	89.6	1551	95.2	1585	100.6	1621	106.5	1653	112.0
28000	2990	1328	66.5	1370	71.8	1411	77.0	1450	82.3	1490	87.7	1526	93.1	1562	98.7	1597	104.4	1631	110.1	1665	116.0
29000	3097	1341	69.4	1383	74.9	1424	80.4	1463	85.8	1501	91.2	1539	96.9	1574	102.4	1609	108.2	1643	114.0	1676	120.0
30000	3204	1355	72.3	1396	78.0	1436	83.8	1476	89.5	1513	95.0	1550	100.6	1587	106.4	1621	112.1	1655	118.1	1687	124.0
31000	3311	1369	75.3	1410	81.3	1449	87.1	1488	93.0	1526	98.9	1562	104.6	1598	110.4	1633	116.4	1666	122.2	1700	128.4
32000	3417	1383	78.3	1424	84.5	1463	90.7	1501	96.7	1538	102.7	1575	108.8	1610	114.7	1645	120.7	1679	126.7	1711	132.8
33000	3524	1398	81.4	1438	87.7	1476	94.1	1514	100.5	1551	106.7	1587	112.8	1623	119.1	1657	125.2	1690	131.4	1723	137.5
34000	3631	1413	84.7	1453	91.1	1491	97.6	1528	104.1	1564	110.6	1600	117.1	1635	123.4	1669	129.9	1702	136.1	1735	142.5
35000	3738	1427	88.0	1467	94.6	1505	101.2	1542	107.9	1578	114.6	1613	121.3	1648	128.0	1681	134.4	1715	141.1	1747	147.4
36000	3844	1442	91.6	1482	98.2	1520	104.9	1556	111.7	1593	118.7	1627	125.5	1661	132.3	1695	139.2	1727	145.8	1760	152.7
37000	3951	1457	95.2	1497	101.9	1535	108.8	1571	115.7	1606	122.7	1641	129.8	1675	136.8	1708	143.8	1741	150.9	1772	157.7
38000	4058	1472	99.0	1511	105.8	1549	112.7	1586	119.8	1621	127.0	1655	134.1	1689	141.4	1721	148.6	1753	155.8	1785	163.1
39000	4165	1488	103.0	1527	109.9	1564	116.9	1600	123.9	1635	131.2	1670	138.6	1703	145.9	1735	153.4	1767	160.9	1798	168.1
40000	4272	1503	107.1	1541	114.0	1579	121.1	1615	128.3	1650	135.7	1684	143.1	1717	150.7	1749	158.3	1781	165.8	1812	173.5
41000	4378	1519	111.5	1557	118.5	1594	125.6	1630	132.8	1665	140.2	1699	147.9	1732	155.4	1764	163.2	1795	171.0	1826	178.7
42000	4485	1535	115.9	1572	123.0	1609	130.2	1645	137.6	1680	145.1	1713	152.6	1746	160.4	1778	168.3	1809	176.1	1840	184.2
43000	4592	1551	120.6	1589	127.8	1625	135.0	1660	142.4	1695	150.0	1729	157.7	1761	165.5	1793	173.4	1824	181.5	1854	189.5
44000	4699	1568	125.4	1604	132.6	1640	139.9	1675	147.5	1710	155.1	1743	162.8	1776	170.8	1808	178.8	1838	186.9	1869	195.2
45000	4806	1585	130.4	1621	137.7	1656	145.2	1691	152.7	1725	160.4	1758	168.3	1791	176.2	1822	184.3	1853	192.6	1883	200.8
46000	4912	1603	135.5	1638	142.9	1672	150.4	1706	158.1	1740	166.0	1773	173.8	1805	181.8	1837	190.1	1867	198.3	1898	206.9
47000	5019	1620	140.9	1655	148.4	1689	156.0	1723	163.7	1756	171.5	1788	179.6	1821	187.7	1852	195.9	1883	204.4	1912	212.7
48000	5126	1639	146.5	1672	154.0	1705	161.7	1739	169.5	1772	177.5	1804	185.5	1835	193.7	1867	202.1	1897	210.4	1927	219.1
49000	5233	1657	152.1	1690	159.8	1723	167.6	1755	175.5	1787	183.5	1819	191.6	1851	200.0	1882	208.3	1912	216.9	1942	225.4
50000	5340	1675	158.0	1708	165.8	1740	173.7	1772	181.6	1804	189.8	1836	198.1	1866	206.3	1897	214.8	1927	223.4	1957	232.1
51000	5446	1694	164.2	1726	172.0	1758	179.9	1789	188.1	1821	196.3	1851	204.5	1882	213.0	1912	221.5	1942	230.1	1972	239.0
52000	5553	1713	170.5	1744	178.4	1776	186.5	1807	194.6	1837	202.9	1868	211.3	1898	219.8	1928	228.4	1958	237.2	1986	245.9
53000	5660	1733	177.0	1763	185.1	1794	193.2	1824	201.4	1855	209.8	1885	218.2	1914	226.8	1944	235.6	1973	244.3		
54000	5767	1752	183.8	1782	191.9	1812	200.1	1842	208.5	1872	216.9	1901	225.4	1931	234.2	1960	242.8	1989	251.8		
55000	5874	1772	190.7	1801	198.9	1831	207.3	1860	215.6	1890	224.1	1919	232.9	1948	241.5	1976	250.4				
56000	5980	1792	197.8	1821	206.2	1850	214.6	1879	223.0	1908	231.7	1936	240.4	1965	249.2						
57000	6087	1812	205.2	1841	213.6	1869	222.1	1898	230.7	1926	239.4	1954	248.2	1982	257.2						
58000	6194	1833	212.8	1861	221.3	1889	229.9	1917	238.6	1944	247.3	1972	256.4								
59000	6301	1853	220.6	1881	229.2	1908	238.0	1936	246.6	1963	255.6	1990	264.5								
Volume	**O.Vel**	**21"SP**		**22"SP**		**23"SP**		**24"SP**		**25"SP**		**26"SP**		**27"SP**		**28"SP**		**29"SP**		**30"SP**	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24000	2563	1654	105.4	1685	110.5																
25000	2670	1664	109.6	1696	114.7	1728	120.3	1758	125.3												
26000	2777	1675	113.5	1708	119.3	1738	124.6	1769	130.0	1800	135.8	1827	141.0								
27000	2883	1686	117.8	1718	123.4	1749	129.0	1781	135.0	1809	140.4	1839	146.1	1869	152.1	1895	157.5				
28000	2990	1697	121.8	1729	127.6	1761	133.8	1790	139.4	1820	145.4	1850	151.4	1878	157.0	1906	163.0	1935	169.2	1960	174.7
29000	3097	1708	125.9	1741	132.1	1771	138.0	1802	144.2	1831	150.3	1860	156.2	1889	162.5	1918	168.6	1944	174.4	1972	180.6
30000	3204	1721	130.3	1751	136.2	1783	142.6	1813	148.8	1842	155.0	1872	161.5	1900	167.6	1927	173.8	1956	180.3	1983	186.5
31000	3311	1731	134.5	1763	140.8	1794	147.1	1824	153.4	1854	160.2	1882	166.3	1910	172.8	1940	179.6	1966	185.7	1993	192.2
32000	3417	1744	139.1	1775	145.4	1805	151.7	1836	158.4	1864	164.8	1894	171.5	1922	178.2	1949	184.6	1977	191.4		
33000	3524	1755	143.8	1786	150.2	1818	156.8	1847	163.2	1877	170.0	1905	176.6	1933	183.3	1962	190.3	1988	197.0		
34000	3631	1767	148.8	1799	155.3	1829	161.7	1859	168.5	1888	175.0	1916	181.8	1946	188.9	1972	195.6				
35000	3738	1780	154.1	1810	160.4	1841	167.2	1870	173.7	1900	180.5	1929	187.4	1956	194.2	1984	201.4				
36000	3844	1791	159.2	1823	166.0	1852	172.5	1883	179.4	1911	186.2	1940	193.0	1969	200.2						
37000	3951	1804	164.7	1834	171.4	1865	178.3	1894	185.1	1923	192.0	1952	199.1	1979	206.0						
38000	4058	1816	170.0	1847	177.2	1877	184.1	1906	191.1	1935	198.2	1963	205.1	1992	212.4						
39000	4165	1829	175.6	1859	182.7	1889	190.0	1918	197.2	1947	204.3	1976	211.7								
40000	4272	1842	181.0	1872	188.6	1902	195.9	1931	203.3	1960	210.8	1987	218.0								
41000	4378	1856	186.6	1885	194.2	1915	202.0	1943	209.6	1972	217.1										
42000	4485	1869	192.0	1899	200.1	1928	207.9	1956	215.8	1985	223.7										
43000	4592	1884	197.8	1913	205.8	1942	214.0	1970	222.0												
44000	4699	1898	203.4	1927	211.8	1955	220.0	1983	228.4												
45000	4806	1913	209.4	1941	217.6	1970	226.3														
46000	4912	1927	215.2	1956	224.0	1983	232.4														
47000	5019	1942	221.5	1970	230.0																
48000	5126	1956	227.6	1985	236.5																
49000	5233	1971	234.2																		
50000	5340	1986	240.9																		

Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Performance shown is for installation type B-Free inlet, Ducted outlet.

Wheel Diameter = 44.50 in
Outlet Area = 11.45 sq. ft. inside
Maximum Speed = 1803 RPM
Tip Speed, fpm = 11.7 x RPM

Size

4450 SISW

Design 8812 Radial Tip Fans

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
23000	2009	1101	53.0																		
24000	2097	1110	55.2	1149	60.3																
25000	2184	1119	57.5	1158	62.7	1196	68.0														
26000	2272	1127	59.6	1167	65.1	1204	70.6	1241	76.1												
27000	2359	1135	61.8	1175	67.4	1213	73.2	1250	78.9	1285	84.6										
28000	2446	1144	64.3	1183	69.9	1221	75.7	1258	81.7	1293	87.6	1327	93.5	1361	99.5						
29000	2534	1153	66.7	1193	72.5	1230	78.4	1266	84.3	1302	90.5	1336	96.6	1369	102.8	1401	109.0				
30000	2621	1162	69.3	1201	75.1	1239	81.1	1275	87.3	1310	93.4	1344	99.8	1377	106.1	1409	112.5	1440	118.8		
31000	2708	1171	72.1	1210	78.0	1247	84.0	1284	90.2	1319	96.6	1352	102.9	1386	109.5	1417	115.9	1449	122.7	1479	129.0
32000	2796	1180	74.9	1219	80.9	1257	87.1	1292	93.2	1327	99.6	1362	106.3	1394	112.8	1426	119.7	1456	126.2	1488	133.2
33000	2883	1189	77.7	1228	83.9	1265	90.1	1302	96.5	1336	102.9	1370	109.5	1403	116.4	1434	123.0	1466	130.2	1495	136.8
34000	2970	1199	80.7	1237	87.1	1274	93.4	1310	99.8	1345	106.4	1379	113.0	1411	119.7	1443	126.8	1473	133.7	1504	140.9
35000	3058	1208	83.5	1246	90.1	1283	96.8	1319	103.4	1354	109.9	1387	116.6	1420	123.5	1451	130.4	1483	137.7	1512	144.7
36000	3145	1219	86.5	1256	93.3	1292	100.1	1328	106.8	1363	113.7	1396	120.4	1429	127.3	1461	134.4	1491	141.5	1521	148.9
37000	3233	1229	89.3	1266	96.5	1302	103.6	1337	110.5	1371	117.4	1405	124.4	1438	131.3	1469	138.4	1500	145.7	1529	153.0
38000	3320	1239	92.4	1276	99.6	1312	106.9	1347	114.1	1381	121.4	1414	128.3	1446	135.5	1478	142.7	1508	149.9	1539	157.4
39000	3407	1250	95.4	1286	102.9	1322	110.5	1356	117.8	1390	125.1	1423	132.5	1455	139.7	1486	147.0	1517	154.4	1547	161.8
40000	3495	1261	98.5	1297	106.1	1332	113.8	1366	121.5	1400	129.2	1432	136.5	1464	144.0	1496	151.5	1526	158.9	1556	166.6
41000	3582	1272	101.7	1308	109.5	1343	117.4	1376	125.2	1409	133.0	1442	140.8	1473	148.4	1504	156.0	1535	163.8	1564	171.3
42000	3669	1282	105.0	1318	112.8	1353	120.8	1387	128.9	1420	137.1	1451	144.9	1483	152.9	1514	160.7	1544	168.4	1574	176.4
43000	3757	1293	108.4	1329	116.4	1364	124.6	1397	132.7	1430	140.9	1462	149.2	1493	157.3	1523	165.3	1553	173.5	1582	181.3
44000	3844	1304	111.9	1340	120.0	1374	128.2	1408	136.5	1440	145.1	1472	153.4	1502	161.7	1533	170.2	1562	178.2	1592	186.7
45000	3932	1315	115.5	1351	123.7	1386	132.1	1419	140.5	1450	149.0	1482	157.7	1513	166.3	1542	174.7	1572	183.5	1601	191.6
46000	4019	1327	119.4	1362	127.6	1396	135.9	1429	144.5	1461	153.3	1492	162.0	1523	170.7	1553	179.7	1581	188.2	1611	197.0
47000	4106	1338	123.2	1373	131.5	1407	140.0	1441	148.8	1472	157.5	1503	166.3	1534	175.5	1562	184.2	1592	193.3	1620	202.0
48000	4194	1350	127.3	1385	135.7	1418	144.2	1451	152.9	1483	161.8	1514	170.9	1543	179.9	1573	189.1	1602	198.2	1630	207.3
49000	4281	1361	131.4	1395	139.9	1429	148.5	1462	157.4	1494	166.3	1524	175.4	1555	184.7	1583	193.9	1612	203.2	1640	212.6
50000	4368	1373	135.8	1407	144.3	1441	153.0	1473	161.8	1505	170.9	1536	180.2	1565	189.5	1594	198.9	1623	208.5	1650	217.8
51000	4456	1384	140.2	1418	148.8	1452	157.5	1484	166.5	1516	175.7	1546	184.9	1576	194.4	1605	204.0	1633	213.5	1661	223.4
52000	4543	1396	144.7	1430	153.4	1463	162.3	1495	171.4	1527	180.5	1557	189.9	1587	199.5	1615	209.0	1644	219.0	1671	228.6
53000	4630	1409	149.5	1442	158.3	1474	167.2	1506	176.2	1538	185.6	1568	195.0	1597	204.5	1627	214.4	1654	224.2	1682	234.2
54000	4718	1421	154.3	1454	163.1	1486	172.2	1518	181.4	1549	190.7	1579	200.2	1609	210.0	1637	219.7	1665	229.7	1692	239.8
55000	4805	1434	159.3	1466	168.3	1498	177.4	1529	186.6	1560	196.0	1590	205.7	1619	215.4	1648	225.2	1676	235.4	1703	245.4
56000	4893	1447	164.5	1478	173.5	1510	182.6	1541	192.0	1572	201.6	1601	211.2	1630	221.0	1659	231.1	1687	241.0	1714	251.5
57000	4980	1460	169.7	1491	178.8	1522	188.2	1553	197.6	1583	207.1	1612	216.9	1642	226.9	1670	236.8	1698	247.0	1725	257.3
58000	5067	1473	175.2	1504	184.5	1534	193.8	1564	203.2	1594	212.9	1624	222.8	1653	232.7	1681	242.8	1709	253.1	1735	263.4
59000	5155	1486	180.9	1517	190.1	1547	199.5	1577	209.1	1606	219.0	1635	228.7	1664	238.8	1692	249.0	1719	259.3	1747	270.0
60000	5242	1500	186.6	1530	195.9	1559	205.5	1589	215.2	1618	224.9	1647	234.9	1676	245.1	1703	255.3	1731	265.8	1757	276.2
61000	5329	1514	192.5	1543	202.0	1572	211.6	1601	221.3	1630	231.2	1659	241.4	1687	251.4	1715	261.8	1742	272.3	1768	282.9
Volume	**O.Vel**	**21"SP**		**22"SP**		**23"SP**		**24"SP**		**25"SP**		**26"SP**		**27"SP**		**28"SP**		**29"SP**		**30"SP**	
CFM	**FPM**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**
32000	2796	1516	139.7	1546	146.6																
33000	2883	1525	144.0	1554	150.8	1582	157.7														
34000	2970	1533	147.9	1562	155.1	1590	162.4	1617	169.3												
35000	3058	1542	152.1	1570	159.4	1598	166.7	1627	174.4	1652	181.3	1679	188.8								
36000	3145	1550	156.2	1578	163.7	1607	171.3	1633	178.6	1661	186.5	1687	193.8	1713	201.3						
37000	3233	1559	160.5	1587	168.0	1615	175.7	1643	183.6	1669	191.0	1695	198.9	1722	206.8	1746	214.2	1771	222.1		
38000	3320	1567	164.8	1596	172.6	1624	180.3	1650	188.0	1678	196.2	1703	203.9	1729	211.7	1755	220.1	1779	227.7		
39000	3407	1576	169.5	1604	177.1	1632	185.0	1660	193.0	1685	200.8	1712	209.1	1738	217.1	1762	225.0	1788	233.4		
40000	3495	1585	174.1	1613	182.0	1641	189.8	1667	197.8	1695	206.2	1720	214.0	1746	222.3	1771	230.9	1795	238.8		
41000	3582	1594	179.2	1622	186.9	1649	194.8	1677	202.9	1703	211.0	1729	219.5	1754	227.6	1779	236.0				
42000	3669	1602	184.1	1631	192.1	1658	200.0	1685	208.1	1712	216.5	1737	224.6	1763	233.2	1788	241.7				
43000	3757	1612	189.5	1639	197.3	1667	205.5	1694	213.6	1720	221.8	1747	230.4	1771	238.6	1796	247.3				
44000	3844	1620	194.5	1649	202.9	1675	210.9	1703	219.2	1729	227.5	1754	235.9	1781	244.7						
45000	3932	1630	200.2	1657	208.2	1685	216.8	1711	224.9	1738	233.4	1764	241.9	1788	250.4						
46000	4019	1638	205.3	1667	214.1	1693	222.3	1721	231.1	1746	239.4	1772	248.0	1798	256.8						
47000	4106	1648	210.9	1675	219.5	1703	228.4	1729	236.8	1756	245.8	1781	254.2								
48000	4194	1657	216.3	1685	225.3	1712	234.1	1738	243.2	1764	251.8	1790	260.8								
49000	4281	1667	221.8	1694	231.1	1721	240.2	1747	249.2	1774	258.4	1798	267.1								
50000	4368	1678	227.5	1704	236.7	1731	246.2	1757	255.4	1782	264.6										
51000	4456	1687	232.8	1715	242.8	1740	252.0	1766	261.8	1792	271.1										
52000	4543	1698	238.6	1724	248.3	1751	258.4	1776	267.8	1802	277.8										
53000	4630	1708	244.1	1735	254.2	1760	264.1	1786	274.3												
54000	4718	1719	249.9	1745	260.1	1771	270.3	1796	280.5												
55000	4805	1730	255.9	1755	266.0	1781	276.6														
56000	4893	1740	261.7	1767	272.3	1791	282.6														
58000	5067	1762	274.1	1788	284.7																
60000	5242	1784	287.0																		
61000	5329	1795	293.7																		

Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Performance shown is for installation type B-Free inlet, Ducted outlet.

Size

4900 SISW

Design 8812 Radial Tip Fans

Wheel Diameter = 49.00 in.
Outlet Area = 13.88 sq. ft. inside
Maximum Speed = 1637 RPM
Tip Speed, fpm = 12.8 x RPM

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
28000	2018	1001	64.5																		
29000	2090	1007	66.7	1043	72.9																
30000	2162	1013	68.9	1050	75.4	1084	81.7														
31000	2234	1020	71.0	1056	77.6	1091	84.3	1124	90.9												
32000	2306	1027	73.4	1062	80.0	1097	86.7	1130	93.7	1163	100.5										
33000	2378	1033	75.6	1069	82.4	1104	89.5	1136	96.3	1169	103.4	1200	110.5								
34000	2450	1040	78.0	1075	84.9	1109	91.9	1143	99.2	1175	106.3	1206	113.5	1236	120.8						
35000	2522	1046	80.5	1082	87.4	1116	94.7	1149	101.8	1181	109.3	1212	116.7	1242	124.1	1272	131.6				
36000	2594	1053	83.1	1088	90.1	1122	97.3	1156	104.8	1187	112.2	1218	119.8	1248	127.5	1277	135.0	1306	142.8		
37000	2666	1059	85.8	1095	92.9	1129	100.2	1162	107.6	1194	115.2	1225	123.0	1254	130.7	1284	138.7	1312	146.4	1340	154.3
38000	2738	1066	88.5	1101	95.7	1136	103.0	1169	110.6	1200	118.3	1231	126.1	1261	134.2	1289	142.0	1318	150.3	1346	158.1
39000	2810	1073	91.4	1108	98.8	1143	106.2	1175	113.7	1207	121.5	1238	129.5	1267	137.4	1297	145.8	1324	153.7	1352	162.2
40000	2882	1080	94.2	1115	101.7	1149	109.3	1182	117.0	1213	124.8	1244	132.7	1274	141.1	1302	149.1	1331	157.8	1358	165.9
41000	2954	1087	97.1	1122	104.9	1156	112.6	1188	120.3	1220	128.1	1251	136.3	1280	144.4	1309	153.0	1337	161.2	1365	170.1
42000	3026	1094	100.0	1129	107.9	1162	115.8	1195	123.8	1227	131.7	1257	139.8	1287	148.2	1315	156.5	1344	165.2	1370	173.7
43000	3098	1102	102.9	1136	111.1	1170	119.3	1202	127.2	1233	135.3	1264	143.6	1293	151.8	1322	160.4	1350	169.0	1377	177.9
44000	3171	1109	105.8	1143	114.2	1176	122.5	1208	130.8	1240	139.2	1270	147.3	1300	155.8	1328	164.3	1356	173.0	1383	181.9
45000	3243	1117	108.7	1151	117.4	1184	126.1	1215	134.5	1246	142.8	1277	151.4	1306	159.8	1335	168.4	1363	177.2	1390	186.1
46000	3315	1125	111.8	1158	120.6	1191	129.3	1222	138.1	1254	146.9	1284	155.3	1313	163.9	1342	172.7	1369	181.4	1397	190.5
47000	3387	1133	114.7	1166	123.8	1198	132.9	1230	141.9	1260	150.6	1290	159.4	1320	168.2	1348	176.9	1377	186.1	1403	194.9
48000	3459	1141	117.9	1174	127.1	1206	136.3	1237	145.4	1268	154.6	1297	163.6	1326	172.4	1355	181.6	1382	190.4	1410	199.7
49000	3531	1149	121.0	1182	130.3	1214	139.7	1245	149.3	1275	158.5	1304	167.6	1334	177.0	1361	185.9	1389	195.1	1416	204.3
50000	3603	1157	124.2	1190	133.8	1222	143.3	1252	152.8	1282	162.4	1312	172.1	1340	181.2	1368	190.6	1396	199.9	1423	209.2
51000	3675	1165	127.5	1198	137.1	1229	146.8	1260	156.6	1290	166.5	1319	176.0	1347	185.7	1375	195.2	1402	204.6	1430	214.2
52000	3747	1173	130.9	1206	140.6	1238	150.5	1268	160.4	1297	170.3	1326	180.3	1355	190.2	1382	199.8	1410	209.8	1436	219.1
53000	3819	1182	134.5	1214	144.2	1245	154.1	1276	164.2	1305	174.4	1334	184.5	1362	194.5	1390	204.8	1416	214.4	1443	224.4
54000	3891	1190	138.0	1222	147.8	1254	157.9	1284	168.2	1313	178.4	1341	188.7	1370	199.2	1397	209.2	1424	219.4	1450	229.4
55000	3963	1198	141.8	1231	151.7	1262	161.9	1292	172.1	1321	182.5	1349	193.1	1377	203.5	1404	214.0	1431	224.4	1457	234.6
56000	4035	1207	145.6	1239	155.5	1270	165.7	1300	176.1	1329	186.8	1357	197.4	1385	208.0	1412	218.9	1438	229.2	1464	240.1
57000	4107	1215	149.4	1247	159.5	1278	169.8	1308	180.4	1337	191.0	1365	201.7	1393	212.8	1419	223.4	1446	234.4	1471	245.0
58000	4179	1224	153.5	1256	163.7	1287	174.0	1316	184.5	1345	195.3	1374	206.4	1400	217.2	1427	228.3	1453	239.3	1479	250.3
60000	4323	1241	161.8	1272	172.2	1303	182.7	1333	193.4	1361	204.3	1389	215.4	1417	226.8	1443	238.0	1469	249.6	1494	260.8
62000	4468	1259	170.7	1289	181.1	1320	191.8	1349	202.7	1378	213.8	1405	225.0	1432	236.5	1459	248.2	1484	259.7	1510	271.7
64000	4612	1277	180.0	1307	190.6	1337	201.4	1366	212.4	1394	223.6	1422	235.2	1449	246.6	1475	258.5	1500	270.4	1525	282.4
66000	4756	1295	189.7	1325	200.5	1354	211.5	1383	222.7	1411	234.0	1438	245.6	1465	257.5	1491	269.3	1517	281.5	1541	293.7
68000	4900	1315	200.0	1344	210.9	1372	222.0	1400	233.4	1428	245.0	1455	256.6	1482	268.5	1508	280.7	1533	292.8	1558	305.5

Volume	O.Vel	21"SP		22"SP		23"SP		24"SP		25"SP		26"SP		27"SP		28"SP		29"SP		30"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
36000	2594	1360	157.9	1388	165.9																
37000	2666	1367	162.1	1393	169.8	1420	178.0	1443	185.5												
38000	2738	1373	166.2	1399	174.3	1424	182.1	1450	190.4	1474	198.4										
39000	2810	1379	170.3	1405	178.5	1431	187.0	1455	194.9	1480	203.3	1505	211.6								
40000	2882	1385	174.5	1411	182.8	1437	191.2	1463	200.0	1486	208.0	1510	216.5	1535	225.4	1556	233.3				
41000	2954	1391	178.4	1417	187.2	1443	195.7	1467	204.3	1493	213.4	1516	221.6	1540	230.1	1564	239.1	1586	247.5		
42000	3026	1398	182.8	1423	191.3	1449	200.3	1474	209.1	1498	217.7	1523	226.9	1546	235.5	1569	244.1	1592	253.2	1614	262.2
43000	3098	1403	186.6	1430	195.9	1455	204.6	1480	213.7	1505	222.8	1528	231.6	1552	240.9	1575	250.0	1597	258.6	1620	267.7
44000	3171	1410	190.9	1436	199.9	1462	209.5	1486	218.2	1510	227.6	1535	237.0	1557	245.9	1581	255.2	1604	264.8	1626	273.5
45000	3243	1416	195.2	1442	204.4	1467	213.6	1493	223.4	1516	232.3	1540	241.8	1565	251.6	1587	260.5	1609	270.0	1633	280.0
46000	3315	1423	199.5	1449	208.9	1474	218.3	1498	227.6	1524	237.6	1546	246.8	1570	256.4	1594	266.6	1615	275.6		
47000	3387	1430	204.3	1455	213.4	1480	223.0	1505	232.5	1529	242.1	1553	252.2	1576	261.6	1599	271.4	1622	281.6		
48000	3459	1436	208.7	1462	218.4	1486	227.6	1512	237.5	1535	247.2	1559	256.9	1583	267.2	1605	276.9	1627	286.7		
49000	3531	1443	213.7	1468	223.0	1494	232.8	1518	242.3	1542	252.3	1566	262.2	1588	272.1	1612	282.5	1634	292.6		
50000	3603	1449	218.6	1475	228.1	1500	237.7	1525	247.7	1548	257.3	1572	267.6	1595	277.7	1617	287.7				
51000	3675	1455	223.6	1481	233.3	1506	242.9	1531	252.7	1555	262.9	1578	272.7	1602	283.2	1624	293.5				
52000	3747	1463	229.1	1488	238.5	1513	248.4	1537	258.2	1561	268.2	1585	278.5	1607	288.6	1631	299.2				
53000	3819	1469	234.0	1495	244.1	1519	253.7	1544	264.0	1568	273.8	1591	284.1	1615	294.6	1637	304.8				
54000	3891	1476	239.5	1501	249.4	1526	259.5	1550	269.4	1575	279.9	1598	289.9	1621	300.3						
55000	3963	1483	245.0	1508	255.0	1533	265.2	1557	275.4	1581	285.5	1605	296.2	1627	306.3						
56000	4035	1489	250.2	1515	260.9	1539	270.9	1564	281.4	1587	291.6	1611	302.0	1634	312.8						
57000	4107	1497	255.8	1521	266.2	1547	277.0	1570	287.2	1595	298.1	1617	308.3								
58000	4179	1504	261.3	1529	272.0	1553	282.7	1577	293.5	1601	304.0	1625	315.1								
59000	4251	1511	266.6	1536	278.0	1560	288.6	1584	299.7	1608	310.5	1631	321.2								
60000	4323	1519	272.4	1543	283.4	1568	295.0	1591	305.7	1615	317.1										
61000	4395	1526	277.8	1550	289.2	1574	300.7	1598	312.2	1621	323.2										
62000	4468	1534	283.2	1558	295.2	1582	306.6	1605	318.4	1628	329.8										
63000	4540	1542	289.0	1565	300.7	1590	313.0	1612	324.4	1636	336.5										
64000	4612	1549	294.6	1573	306.6	1597	318.7	1620	330.9												
65000	4684	1557	300.2	1582	312.8	1604	324.7	1628	337.2												
66000	4756	1565	306.1	1589	318.4	1612	331.1	1635	343.3												
67000	4828	1573	312.1	1597	324.5	1620	337.2														

Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Performance shown is for installation type B-Free inlet, Ducted outlet.

Wheel Diameter = 54.25 in.
Outlet Area = 17.01 sq ft. inside
Maximum Speed = 1479 RPM
Tip Speed, fpm = 14.2 x RPM

Size

5425 SISW

Design 8812 Radial Tip Fans

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
34000	1999	902	78.4																		
35000	2057	908	80.7	940	88.1																
36000	2116	912	82.7	944	90.4																
37000	2175	917	85.0	949	92.9	980	100.7														
38000	2234	921	87.1	953	95.1	985	103.4	1015	111.4												
39000	2293	926	89.4	959	97.6	989	105.8	1020	114.1												
40000	2351	931	91.6	963	99.9	994	108.4	1025	116.9	1053	125.3										
41000	2410	936	94.0	968	102.5	999	110.9	1029	119.6	1059	128.6	1086	137.0								
42000	2469	940	96.4	972	104.8	1004	113.5	1034	122.6	1062	131.2	1091	140.3	1118	149.1						
43000	2528	945	98.9	978	107.5	1009	116.3	1038	125.1	1067	134.2	1095	143.3	1122	152.4	1149	161.6				
44000	2587	950	101.5	982	110.1	1013	118.9	1043	128.0	1072	137.2	1100	146.4	1127	155.9	1153	165.0				
45000	2645	955	104.1	987	112.8	1019	121.8	1048	130.8	1076	140.1	1105	149.8	1131	159.0	1158	168.9	1183	178.1		
46000	2704	960	107.0	992	115.7	1023	124.6	1053	133.8	1082	143.4	1109	152.7	1136	162.5	1162	172.1	1188	182.1	1213	191.5
47000	2763	965	109.7	997	118.6	1028	127.6	1058	136.9	1086	146.3	1114	156.0	1141	165.8	1167	175.6	1192	185.6	1217	195.6
48000	2822	970	112.6	1002	121.7	1033	130.7	1062	139.9	1091	149.5	1119	159.3	1145	169.1	1172	179.3	1197	189.2	1222	199.5
49000	2880	975	115.4	1007	124.6	1037	133.8	1067	143.3	1096	152.8	1123	162.6	1151	172.8	1176	182.7	1202	193.3	1226	203.2
50000	2939	980	118.3	1012	127.7	1043	137.2	1072	146.6	1100	156.2	1129	166.2	1155	176.1	1181	186.5	1206	196.7	1231	207.4
51000	2998	986	121.2	1017	130.8	1047	140.3	1077	150.0	1106	159.8	1133	169.6	1160	179.7	1186	190.1	1211	200.5	1236	211.1
52000	3057	991	124.0	1022	133.9	1053	143.7	1082	153.6	1110	163.3	1138	173.3	1165	183.5	1190	193.8	1216	204.6	1240	215.0
53000	3116	997	127.0	1028	137.2	1058	147.1	1087	157.0	1115	167.0	1143	177.1	1169	187.2	1196	197.8	1220	208.3	1246	219.4
54000	3174	1002	129.9	1033	140.2	1063	150.4	1092	160.6	1120	170.8	1147	180.8	1174	191.3	1200	201.7	1225	212.4	1250	223.2
55000	3233	1008	132.8	1038	143.4	1068	154.0	1097	164.3	1125	174.4	1153	184.9	1179	195.2	1205	205.7	1230	216.6	1254	227.4
56000	3292	1014	135.9	1044	146.7	1073	157.3	1102	167.8	1130	178.4	1158	188.9	1184	199.3	1210	210.2	1235	220.7	1260	232.0
57000	3351	1020	138.8	1050	149.7	1079	160.7	1108	171.6	1135	182.3	1162	192.8	1189	203.7	1215	214.2	1240	225.2	1264	236.1
58000	3410	1025	141.8	1055	153.0	1085	164.3	1113	175.2	1140	186.1	1168	197.1	1194	207.8	1219	218.6	1245	229.7	1269	240.7
59000	3468	1032	145.0	1061	156.3	1090	167.6	1118	178.8	1146	190.2	1173	201.1	1199	212.1	1225	223.3	1249	234.1	1274	245.6
60000	3527	1037	148.1	1067	159.5	1096	171.0	1124	182.7	1151	194.0	1178	205.2	1204	216.7	1229	227.6	1254	238.9	1279	250.1
61000	3586	1043	151.3	1073	162.9	1102	174.7	1129	186.3	1156	197.9	1183	209.6	1209	220.9	1234	232.2	1260	243.7	1283	254.9
62000	3645	1050	154.7	1079	166.3	1107	178.1	1135	190.0	1162	202.0	1188	213.7	1214	225.2	1240	237.1	1264	248.3	1289	260.1
63000	3703	1055	157.9	1085	169.7	1113	181.7	1141	193.9	1168	205.9	1194	217.8	1220	229.9	1245	241.5	1269	253.3	1293	264.9
64000	3762	1062	161.4	1091	173.3	1120	185.5	1147	197.6	1173	209.8	1199	222.2	1225	234.2	1250	246.2	1275	258.3	1298	269.9
65000	3821	1068	165.0	1097	176.9	1125	189.0	1152	201.4	1179	213.9	1205	226.3	1230	238.6	1255	251.2	1279	263.0	1304	275.3
66000	3880	1074	168.5	1103	180.5	1131	192.8	1159	205.4	1185	218.0	1210	230.5	1236	243.2	1260	255.6	1285	268.0	1309	280.3
68000	3997	1086	176.0	1115	188.2	1143	200.6	1170	213.3	1197	226.2	1222	239.3	1247	252.0	1272	265.2	1295	277.9	1319	290.7
70000	4115	1098	183.7	1127	196.1	1155	208.7	1183	221.7	1208	234.6	1234	247.9	1259	261.4	1282	274.5	1307	288.1	1329	301.0
72000	4233	1111	191.9	1140	204.4	1167	217.1	1194	230.1	1221	243.6	1246	256.9	1270	270.5	1294	284.4	1317	297.8	1341	311.9
74000	4350	1124	200.4	1152	213.1	1180	226.1	1206	239.1	1232	252.5	1258	266.3	1282	280.1	1306	294.0	1329	308.3	1352	322.0
76000	4468	1137	209.2	1165	222.0	1192	235.1	1219	248.4	1245	262.1	1269	275.8	1294	289.9	1318	304.2	1340	318.4	1364	333.1
78000	4585	1150	218.5	1178	231.5	1205	244.7	1231	258.1	1257	271.8	1282	285.9	1306	300.0	1329	314.4	1353	329.2	1375	343.7
Volume	**O.Vel**	**21"SP**		**22"SP**		**23"SP**		**24"SP**		**25"SP**		**26"SP**		**27"SP**		**28"SP**		**29"SP**		**30"SP**	
CFM	**FPM**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**
45000	2645	1233	197.1	1257	206.7	1280	216.5														
46000	2704	1238	201.7	1261	211.0	1284	220.8	1308	230.8												
47000	2763	1241	205.3	1266	215.8	1288	225.2	1311	235.2	1334	245.5										
48000	2822	1246	209.6	1270	219.6	1294	230.2	1316	239.8	1338	250.0	1360	260.6	1380	270.1						
49000	2880	1251	213.8	1274	223.9	1297	234.2	1321	245.0	1342	254.8	1364	265.2	1386	276.1	1406	285.8				
50000	2939	1255	217.6	1279	228.6	1302	238.7	1325	249.3	1348	260.2	1368	270.2	1390	280.8	1412	292.0	1431	301.8		
51000	2998	1260	221.9	1283	232.4	1307	243.7	1329	253.9	1351	264.7	1374	275.8	1394	286.0	1415	296.7	1436	308.1	1455	318.2
52000	3057	1265	226.0	1288	236.8	1311	247.6	1334	259.0	1355	269.4	1377	280.5	1399	291.8	1419	302.1	1440	313.0	1461	324.6
53000	3116	1269	229.9	1293	241.3	1315	252.1	1338	263.2	1361	274.8	1381	285.4	1403	296.6	1425	308.2	1444	318.7	1464	329.8
54000	3174	1274	234.4	1297	245.3	1321	257.1	1342	267.8	1364	279.2	1387	290.9	1407	301.7	1428	313.2	1450	325.1	1469	335.7
55000	3233	1279	238.6	1302	249.8	1325	261.1	1348	272.9	1369	283.9	1391	295.6	1412	307.4	1432	318.5	1453	330.1	1474	342.3
56000	3292	1283	242.8	1307	254.5	1329	265.7	1352	277.3	1374	289.2	1395	300.5	1416	312.4	1437	324.4	1457	335.6	1477	347.4
57000	3351	1288	247.5	1311	258.7	1335	270.7	1356	281.9	1378	293.9	1400	305.9	1420	317.4	1442	329.6	1462	341.7		
58000	3410	1293	252.1	1316	263.4	1339	275.1	1362	287.1	1383	298.6	1404	310.9	1425	322.9	1446	334.7	1466	347.1		
59000	3468	1298	256.6	1322	268.4	1343	279.8	1366	291.8	1388	303.9	1409	315.7	1430	328.3	1451	340.4	1470	352.4		
60000	3527	1303	261.6	1326	273.0	1349	285.0	1370	296.6	1393	309.0	1414	321.1	1434	333.2	1456	346.0	1475	358.2		
61000	3586	1308	266.6	1330	278.1	1353	289.9	1376	302.0	1397	313.9	1419	326.6	1439	338.7	1459	351.1				
62000	3645	1312	271.4	1336	283.5	1358	295.0	1380	307.2	1402	319.3	1423	331.6	1445	344.6	1464	356.7				
63000	3703	1317	276.7	1340	288.4	1363	300.5	1385	312.3	1407	324.9	1428	337.0	1449	349.6	1470	362.8				
64000	3762	1322	282.0	1345	293.7	1368	305.9	1390	317.9	1411	330.2	1433	343.0	1453	355.2	1474	368.1				
65000	3821	1327	287.1	1350	299.4	1372	311.2	1395	323.8	1416	335.8	1437	348.4	1459	361.3	1478	373.8				
66000	3880	1332	292.5	1355	304.7	1377	317.0	1399	329.2	1422	341.9	1442	354.1	1463	367.0						
68000	3997	1342	303.2	1365	315.9	1387	328.3	1410	341.2	1430	353.5	1452	366.4	1473	379.2						
70000	4115	1353	314.4	1375	327.1	1398	340.4	1419	352.9	1441	366.1	1461	378.8								
72000	4233	1363	325.0	1386	339.0	1407	351.9	1429	365.5	1450	378.4	1471	391.7								
74000	4350	1375	336.5	1396	350.0	1418	364.2	1439	377.6	1461	391.3										
76000	4468	1385	347.1	1408	361.9	1429	375.8	1450	390.2	1471	404.3										
78000	4585	1397	358.7	1418	373.1	1440	388.1	1461	402.6												
80000	4703	1408	369.8	1430	385.2	1451	400.1	1472	415.3												

Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Performance shown is for installation type B-Free inlet, Ducted outlet.

Size

5712 SISW

Design 8812 Radial Tip Fans

Wheel Diameter = 57.125 in.
Outlet Area = 18.86 sq. ft. inside
Maximum Speed = 1401 RPM
Tip Speed, fpm = 15.0 x RPM

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
38000	2015	858	87.6																		
39000	2068	863	89.9	894	98.1																
40000	2121	866	91.9	897	100.5																
41000	2174	871	94.2	901	102.9	931	111.5														
42000	2227	874	96.3	905	105.1	935	114.2	964	123.2												
43000	2280	878	98.5	910	107.7	939	116.7	967	125.8												
44000	2333	883	100.8	913	109.9	943	119.2	972	128.9	999	137.9										
45000	2386	886	103.0	917	112.4	947	121.9	975	131.3	1003	141.0	1030	150.5								
46000	2439	891	105.6	922	114.9	951	124.3	979	134.1	1007	143.9	1033	153.6								
47000	2492	895	107.9	925	117.3	955	127.1	983	136.9	1011	146.7	1038	157.1	1063	166.7						
48000	2545	899	110.5	930	120.1	959	129.7	987	139.6	1015	149.9	1041	159.9	1067	170.2	1092	180.2				
49000	2598	903	113.1	934	122.6	963	132.4	992	142.6	1019	152.7	1045	163.0	1071	173.5	1096	183.8	1121	194.3		
50000	2651	907	115.8	938	125.4	968	135.4	996	145.4	1023	155.7	1050	166.4	1075	176.6	1101	187.6	1124	197.8		
51000	2704	912	118.6	942	128.3	971	138.1	1000	148.3	1027	159.0	1053	169.3	1079	180.2	1104	190.8	1129	201.8	1152	212.3
52000	2757	916	121.3	946	131.1	976	141.2	1004	151.5	1031	161.8	1057	172.6	1083	183.4	1108	194.3	1132	205.4	1156	216.4
53000	2810	920	124.2	951	134.2	980	144.3	1008	154.5	1035	165.1	1062	175.9	1087	186.7	1112	198.1	1136	208.9	1160	220.4
54000	2863	925	127.0	955	137.1	984	147.3	1012	157.7	1040	168.4	1065	179.1	1091	190.4	1116	201.4	1140	212.9	1163	224.0
55000	2916	929	129.8	959	140.2	988	150.6	1017	161.1	1043	171.6	1070	182.6	1095	193.7	1120	205.0	1144	216.5	11672	28.0
56000	2969	934	132.8	964	143.5	993	153.9	1020	164.4	1048	175.2	1074	186.2	1099	197.2	1124	208.9	1148	220.2	1172	232.2
57000	3022	938	135.7	968	146.4	997	157.1	1025	167.9	1052	178.8	1078	189.6	1104	201.1	1128	212.4	1152	224.2	1175	235.8
58000	3076	943	138.5	972	149.6	1001	160.6	1029	171.4	1056	182.3	1082	193.5	1108	204.7	1132	216.2	1156	228.0	1179	239.8
59000	3129	948	141.6	977	152.9	1006	163.9	1033	174.9	1060	186.0	1086	197.2	1112	208.5	1137	220.3	1160	231.8	1184	244.2
60000	3182	953	144.4	982	155.8	1010	167.2	1038	178.6	1065	189.8	1090	201.0	1116	212.6	1140	224.1	1164	236.0	1187	248.0
61000	3235	957	147.3	986	159.1	1015	170.8	1042	182.2	1069	193.5	1095	205.0	1120	216.5	1144	228.2	1169	240.2	1192	252.2
62000	3288	963	150.4	991	162.4	1019	174.1	1046	185.7	1073	197.4	1099	209.1	1124	220.6	1149	232.6	1172	244.3	1196	256.8
63000	3341	967	153.3	996	165.4	1024	177.5	1051	189.5	1078	201.4	1103	213.0	1129	224.9	1153	236.7	1177	248.7	1200	261.0
64000	3394	972	156.3	1001	168.6	1029	181.1	1056	193.2	1082	205.1	1108	217.2	1133	229.1	1157	241.0	1181	253.4	1204	265.4
65000	3447	978	159.5	1006	172.0	1033	184.4	1060	196.7	1086	209.1	1112	221.4	1137	233.3	1161	245.7	1185	257.7	1208	270.2
66000	3500	983	162.6	1011	175.1	1038	187.8	1065	200.5	1091	213.2	1116	225.4	1141	237.8	1166	250.1	1189	262.3	1213	274.9
68000	3606	993	169.0	1021	182.0	1048	194.9	1074	207.9	1100	220.9	1126	234.1	1150	246.5	1174	259.2	1198	271.8	1221	284.5
70000	3712	1003	175.6	1031	188.7	1058	202.0	1085	215.6	1110	228.8	1134	242.1	1159	255.7	1183	268.4	1206	281.6	1229	294.4
72000	3818	1014	182.7	1042	195.9	1068	209.4	1094	223.0	1120	236.9	1144	250.7	1168	264.2	1192	278.1	1215	291.2	1238	304.8
74000	3924	1024	189.8	1052	203.2	1079	217.0	1105	231.0	1129	244.9	1154	259.1	1178	273.4	1201	287.2	1224	301.5	1246	314.9
76000	4030	1035	197.4	1062	211.0	1089	224.8	1115	238.9	1140	253.5	1164	267.8	1187	282.2	1211	297.0	1233	311.0	1256	325.7
78000	4136	1045	205.3	1073	219.0	1100	233.1	1125	247.4	1150	261.8	1174	276.6	1197	291.5	1220	306.2	1243	321.5	1264	335.7
80000	4242	1056	213.5	1083	227.3	1110	241.4	1135	255.9	1160	270.9	1184	285.6	1207	300.7	1230	316.1	1252	331.1	1274	346.7
82000	4348	1067	222.0	1094	236.0	1121	250.4	1146	264.9	1170	279.7	1194	295.0	1217	310.4	1240	325.7	1262	341.6	1284	356.8
84000	4454	1078	230.8	1105	245.0	1131	259.4	1156	274.2	1181	289.4	1204	304.5	1227	320.1	1250	336.0	1272	351.6	1294	368.0
86000	4560	1090	240.0	1116	254.4	1142	269.1	1167	283.9	1191	299.0	1215	314.5	1238	330.3	1260	346.1	1282	362.6	1303	378.4
Volume	**O.Vel**	**21"SP**		**22"SP**		**23"SP**		**24"SP**		**25"SP**		**26"SP**		**27"SP**		**28"SP**		**29"SP**		**30"SP**	
CFM	**FPM**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**
50000	2651	1171	219.1	1194	229.6	1217	240.7														
51000	2704	1176	223.6	1198	233.9	1220	244.7	1242	255.9												
52000	2757	1179	227.2	1202	238.7	1223	249.1	1245	260.3	1267	271.6										
53000	2810	1183	231.4	1205	242.6	1228	254.1	1249	264.8	1270	276.2	1291	287.6								
54000	2863	1187	235.9	1209	246.8	1231	258.4	1253	269.9	1273	280.8	1295	292.5	1315	304.1						
55000	2916	1190	239.5	1213	251.5	1235	262.6	1257	274.5	1278	286.1	1298	297.3	1319	309.2	1338	320.9				
56000	2969	1194	243.6	1217	255.5	1239	267.4	1260	278.9	1282	291.1	1302	302.7	1322	314.1	1342	326.3	1362	338.2		
57000	3023	1199	248.1	1220	259.6	1243	271.9	1264	283.8	1285	295.5	1306	308.1	1326	319.6	1345	331.4	1365	343.7	1385	355.8
58000	3076	1202	251.9	1225	264.2	1246	276.0	1268	288.7	1289	300.5	1309	312.6	1330	325.4	1349	337.0	1368	349.0	1388	361.5
59000	3129	1206	256.0	1229	268.5	1250	280.6	1271	292.9	1293	306.0	1313	317.7	1333	330.0	1354	343.1	1373	354.8	1391	366.9
60000	3182	1211	260.4	1232	272.5	1255	285.5	1275	297.6	1296	310.2	1318	323.3	1337	335.2	1357	347.9	1377	361.2	1395	373.0
61000	3235	1215	264.7	1237	277.1	1258	289.6	1280	302.7	1300	314.9	1321	327.9	1341	341.0	1360	353.2	1380	366.1	1400	379.6
62000	3288	1218	268.8	1241	281.8	1262	294.1	1283	307.1	1305	320.2	1324	332.7	1345	346.0	1365	359.1	1384	371.5		
63000	3341	1223	273.4	1245	286.0	1267	299.1	1287	311.6	1308	325.0	1329	338.0	1348	350.9	1369	364.5	1388	377.6		
64000	3394	1227	278.2	1249	290.6	1270	303.6	1292	316.7	1312	329.6	1333	343.3	1352	356.3	1372	369.4	1392	383.3		
65000	3447	1231	282.6	1253	295.6	1274	308.2	1296	321.7	1316	334.7	1336	348.0	1357	362.1	1376	374.9	1395	388.4		
66000	3500	1235	287.4	1257	300.3	1279	313.2	1299	326.3	1321	340.2	1340	353.1	1360	366.8	1381	381.0	1399	394.0		
68000	3606	1243	297.3	1265	310.2	1287	323.2	1308	336.9	1328	350.0	1349	363.8	1369	377.7	1388	391.2				
70000	3712	1252	307.6	1273	320.5	1295	334.0	1316	347.1	1337	361.0	1357	374.6	1376	388.4	1397	403.1				
72000	3818	1260	317.9	1282	331.6	1303	344.7	1325	358.6	1345	371.9	1365	385.9	1385	400.2						
74000	3924	1269	329.0	1290	342.3	1312	356.5	1332	369.7	1353	383.8	1373	397.7	1393	411.7						
76000	4030	1277	339.4	1299	354.0	1320	367.5	1341	381.9	1361	395.7	1381	409.9								
78000	4136	1287	350.9	1308	364.9	1329	379.7	1349	393.7	1370	408.2	1390	422.6								
80000	4242	1295	361.3	1317	376.8	1337	391.2	1358	406.2	1378	420.7	1398	435.4								
82000	4348	1305	372.9	1326	387.8	1347	403.6	1367	418.4	1387	433.6										
84000	4454	1314	383.4	1336	399.9	1356	415.1	1376	431.2	1396	446.4										
86000	4560	1325	395.1	1345	410.9	1366	427.7	1385	443.3												
88000	4666	1334	406.0	1355	423.1	1375	439.3	1395	456.4												
90000	4772	1345	417.9	1364	434.6	1385	452.0														

Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Performance shown is for installation type B-Free inlet, Ducted outlet.

Wheel Diameter = 60.00 in.
Outlet Area = 20.81 sq. ft. inside
Maximum Speed = 1337 RPM
Tip Speed, fpm = 15.7 x RPM

Size

6000 SISW

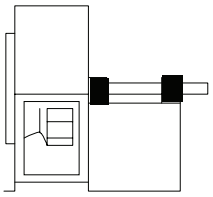
Design 8812 Radial Tip Fans

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
41000	1970	814	94.7																		
42000	2018	817	96.8																		
43000	2066	821	99.2	851	108.2																
44000	2115	824	101.1	854	110.5																
45000	2163	828	103.4	858	113.1	886	122.5														
46000	2211	831	105.5	860	115.2	889	125.1														
47000	2259	834	107.6	864	117.7	893	127.8	920	137.6												
48000	2307	839	110.1	868	120.0	896	130.1	923	140.5	950	150.7										
49000	2355	842	112.2	871	122.3	899	132.8	927	143.2	953	153.5										
50000	2403	845	114.6	875	124.9	903	135.3	930	145.8	956	156.7	981	167.1								
51000	2451	849	117.0	878	127.3	906	137.8	933	148.8	959	159.5	985	170.3	1010	181.2						
52000	2499	852	119.4	882	129.8	910	140.6	937	151.4	963	162.3	989	173.7	1013	184.4						
53000	2547	856	122.0	886	132.6	913	143.2	940	154.1	967	165.5	991	176.5	1016	187.9	1040	199.0				
54000	2595	860	124.6	889	135.1	917	145.9	944	157.2	970	168.3	995	179.7	1020	191.2	1043	202.5	1067	214.1		
55000	2643	863	127.3	892	137.9	921	148.9	947	159.9	973	171.2	999	183.1	1023	194.3	1047	206.5	1070	217.6		
56000	2691	867	130.1	896	140.8	924	151.6	951	162.8	977	174.5	1002	185.9	1026	197.8	1050	209.6	1073	221.6	1096	233.2
57000	2739	871	132.8	900	143.6	927	154.6	955	166.0	980	177.4	1005	189.1	1030	201.3	1053	213.0	1077	225.4	1099	237.2
58000	2787	874	135.6	903	146.6	931	157.8	958	169.0	984	180.5	1009	192.7	1033	204.4	1057	216.8	1080	228.8	1103	241.5
59000	2835	878	138.6	907	149.7	935	160.7	961	172.1	988	183.9	1012	195.7	1037	207.9	1060	220.2	1083	232.6	1106	245.0
60000	2883	882	141.3	910	152.6	938	163.9	965	175.5	991	187.1	1016	199.1	1041	211.6	1063	223.7	1087	236.6	1109	248.8
61000	2932	886	144.2	914	155.7	942	167.3	969	178.8	994	190.5	1020	202.7	1044	214.8	1067	227.4	1090	240.0	1113	253.0
62000	2980	890	147.2	918	158.9	946	170.4	972	182.1	998	194.1	1023	206.1	1047	218.4	107	1231.2	1093	243.7	1116	256.9
64000	3076	898	152.8	926	165.1	953	177.2	980	189.2	1005	201.1	1030	213.5	1054	225.9	1078	238.6	1101	251.6	1123	264.7
66000	3172	906	158.7	934	171.3	961	183.8	987	196.3	1013	208.7	1037	221.0	1062	233.7	1085	246.5	1108	259.6	1130	272.8
68000	3268	915	164.7	942	177.9	969	190.8	995	203.5	1020	216.2	1045	229.2	1069	241.7	1092	254.8	1115	267.8	1137	281.4
70000	3364	923	170.6	950	184.0	977	197.5	1003	211.0	1028	224.0	1052	237.0	1076	250.4	1099	263.2	1122	276.7	1144	290.1
72000	3460	932	176.9	959	190.7	985	204.4	1010	218.1	1035	231.9	1060	245.4	1083	258.6	1107	272.4	1129	285.6	1152	299.5
74000	3556	941	183.1	967	197.2	993	211.4	1019	225.7	1043	239.6	1067	253.6	1091	267.6	1114	281.1	1137	295.3	1158	308.8
76000	3652	950	189.7	976	204.0	1002	218.4	1027	233.0	1052	247.8	1075	262.0	1098	276.2	1122	290.7	1144	304.5	1166	319.0
78000	3749	958	196.4	985	210.9	1011	225.8	1036	240.7	1060	255.5	1083	270.5	1106	285.3	1129	299.7	1152	314.6	1173	328.7
80000	3845	968	203.5	994	218.1	1019	233.1	1044	248.3	1068	263.8	1091	278.8	1114	294.1	1137	309.4	1159	324.1	1181	339.4
82000	3941	976	210.8	1003	225.6	1029	240.9	1053	256.2	1077	271.7	1100	287.5	1123	303.2	1145	318.5	1167	334.4	1188	349.3
84000	4037	986	218.4	1012	233.3	1037	248.6	1062	264.2	1086	280.3	1108	296.1	1131	312.1	1153	328.3	1174	343.9	1196	360.2
86000	4133	995	226.2	1021	241.4	1046	256.9	1071	272.7	1094	288.6	1117	304.9	1140	321.4	1161	337.6	1183	354.4	1204	370.1
88000	4229	1004	234.4	1030	249.7	1055	265.2	1079	281.2	1103	297.6	1126	314.0	1148	330.5	1170	347.6	1191	363.9	1212	381.1
90000	4325	1014	242.8	1039	258.3	1064	274.1	1089	290.2	1112	306.5	1135	323.2	1157	340.3	1178	357.0	1200	374.4	1220	391.2
92000	4421	1023	251.7	1049	267.2	1073	283.1	1097	299.3	1121	315.9	1144	332.8	1165	349.7	1187	367.3	1208	384.4	1229	402.1
94000	4517	1033	260.6	1058	276.4	1083	292.5	1107	309.0	1130	325.5	1152	342.5	1175	360.0	1196	377.2	1217	395.1	1237	412.7
96000	4614	1043	270.1	1068	286.0	1092	302.2	1116	318.6	1139	335.5	1162	352.8	1183	370.0	1205	387.8	1225	405.7	1246	423.7
Volume	**O.Vel**	**21"SP**		**22"SP**		**23"SP**		**24"SP**		**25"SP**		**26"SP**		**27"SP**		**28"SP**		**29"SP**		**30"SP**	
CFM	**FPM**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**	**RPM**	**BHP**
54000	2595	1111	236.8	1134	248.8																
55000	2643	1114	241.0	1136	252.7	1157	264.7														
56000	2691	1119	245.6	1139	256.9	1160	268.9	1181	280.9												
57000	2739	1121	249.3	1143	261.5	1163	273.2	1184	285.6	1204	297.5										
58000	2787	1124	253.2	1146	265.8	1167	277.9	1187	289.9	1208	302.8	1227	314.6								
59000	2835	1128	257.6	1149	269.8	1171	282.8	1190	294.7	1210	307.1	1231	320.3	1249	332.0						
60000	2883	1131	261.8	1152	274.2	1173	286.8	1195	300.0	1214	312.0	1233	324.7	1254	338.1	1271	349.9				
61000	2932	1134	265.5	1156	279.0	1176	291.2	1197	304.2	1218	317.4	1237	329.6	1256	342.7	1276	356.1	1293	368.2		
62000	2980	1138	269.7	1159	282.7	1180	296.1	1200	308.7	1221	322.1	1240	335.1	1259	347.7	1278	361.0	1297	374.5	1314	386.8
63000	3028	1142	274.3	1162	286.9	1183	300.4	1204	313.6	1223	326.6	1244	340.4	1263	353.3	1281	366.2	1300	379.8	1319	393.4
64000	3076	1144	277.9	1166	291.5	1186	304.6	1207	318.6	1227	331.6	1246	344.9	1267	359.1	1285	371.9	1303	385.1	1322	398.9
65000	3124	1148	282.0	1169	295.8	1190	309.2	1210	322.7	1231	337.1	1250	350.0	1269	363.7	1289	378.1	1306	390.9	1324	404.3
66000	3172	1152	286.4	1172	299.8	1194	314.2	1213	327.3	1234	341.3	1253	355.5	1272	368.8	1291	382.8	1310	397.3	1328	410.3
68000	3268	1158	294.9	1180	309.1	1200	322.6	1221	337.1	1240	351.0	1259	365.0	1279	379.9	1298	393.7	1316	407.6	1335	422.3
70000	3364	1166	304.1	1186	317.7	1208	332.4	1227	346.2	1247	360.7	1267	375.7	1285	389.7	1304	404.5	1323	419.7		
72000	3460	1173	313.1	1194	327.6	1214	341.4	1235	356.2	1254	370.8	1273	385.3	1293	400.8	1311	415.3	1329	430.1		
74000	3556	1180	323.2	1201	337.0	1222	351.7	1241	366.0	1261	380.9	1281	396.2	1299	410.8	1318	426.2	1336	442.0		
76000	3652	1187	332.8	1208	347.6	1228	361.7	1249	376.6	1268	391.5	1287	406.4	1307	422.2	1325	437.3				
78000	3749	1195	343.6	1215	357.7	1236	372.7	1255	387.3	1275	402.3	1295	417.8	1313	432.8	1332	448.7				
80000	3845	1201	353.7	1223	369.0	1243	383.4	1263	398.6	1282	413.7	1301	428.9	1321	445.0						
82000	3941	1209	365.0	1230	379.6	1250	395.1	1270	410.0	1289	425.4	1309	441.1	1327	456.4						
84000	4037	1216	375.3	1238	391.4	1257	406.4	1277	422.2	1296	437.5	1316	453.1	1335	469.3						
86000	4133	1225	386.8	1245	402.2	1265	418.6	1284	434.0	1304	450.0	1323	465.9								
88000	4229	1232	397.2	1253	414.2	1272	430.0	1292	446.7	1311	462.4	1330	478.7								
90000	4325	1241	408.6	1260	425.1	1280	442.5	1299	458.6	1319	475.6										
92000	4421	1249	419.3	1269	437.0	1288	453.9	1308	471.7	1326	488.1										
94000	4517	1257	430.6	1277	448.3	1296	466.2	1315	483.5	1334	501.7										
96000	4614	1266	441.9	1285	460.0	1304	478.1	1323	496.4												
98000	4710	1274	453.2	1294	472.0	1313	490.3	1331	508.8												

Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Performance shown is for installation type B-Free inlet, Ducted outlet.

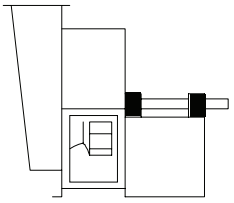
SW - Single Width
SI - Single Inlet

DW - Double Width
DI - Double Inlet



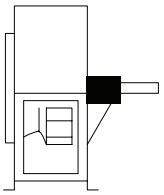
1 SWSI

For belt drive or direct connection. Impeller overhung. Two bearings on base.



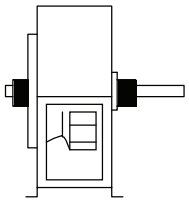
1 SWSI c/w BOX

For belt drive or direct connection. Impeller overhung. Two bearings on base. Inlet box may be self-supporting.



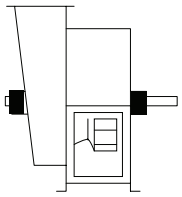
2 SWSI

For belt drive or direct connection. Impeller overhung. Bearings in bracket supported by fan housing.



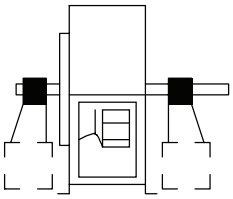
3 SWSI

For belt drive or direct connection. One bearing on each side and supported by fan housing.



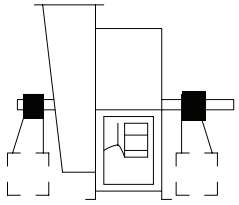
3 SWSI c/w BOX

For belt drive or direct connection. One bearing on each side and supported by fan housing and inlet box. Shaft extending through inlet box.



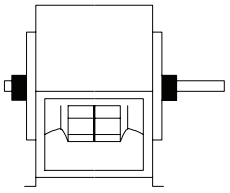
3 SWSI c/w IND. PED.

For belt drive or direct connection. Housing is self-supporting. One bearing on each side supported by independent pedestals.



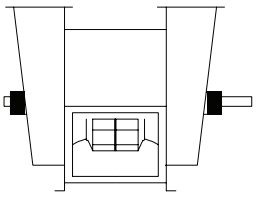
3 SWSI c/w BOX & IND. PED.

For belt drive or direct connection. Housing is self-supporting. One bearing on each side and supported by independent pedestals with shaft extending through inlet box.



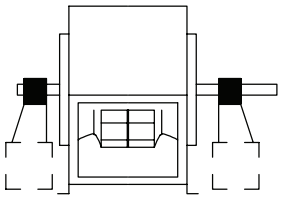
3 DWDI

For belt drive or direct connection. One bearing on each side and supported by fan housing.



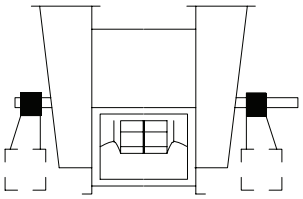
3 DWDI c/w BOXES

For belt drive or direct connection. One bearing on each side and supported by inlet boxes. Shaft extending through inlet boxes.



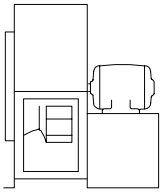
3 DWDI c/w IND. PED.

For belt drive or direct connection. Housing is self-supporting. One bearing on each side and supported by independent pedestals.



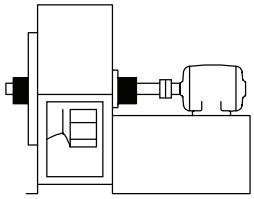
3 DWDI c/w BOXES & IND. PED

For belt drive or direct connection. Housing is self-supporting. One bearing on each side supported by independent pedestals with shaft extending through inlet box.



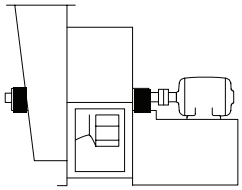
4 SWSI

For direct drive. Impeller overhung on prime mover shaft. No bearings on fan. Prime mover base mounted or integrally directly connected.



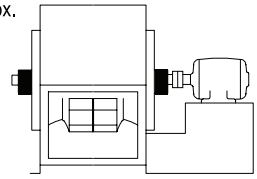
7 SWSI

For belt drive or direct connection. Arrangement 3 plus base for prime mover.



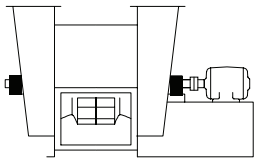
7 SWSI c/w BOX

For belt drive or direct connection. Arrangement 3 plus base for prime mover. Shaft extending through inlet box.



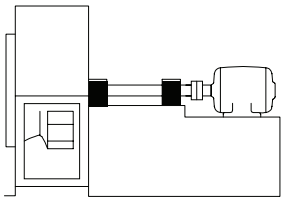
7 DWDI

For belt drive or direct connection. Arrangement 3 plus base for prime mover.



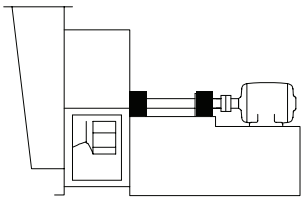
7 DWDI c/w BOXES

For belt drive or direct connection. Arrangement 3 plus base for prime mover. Shaft extending through inlet box.



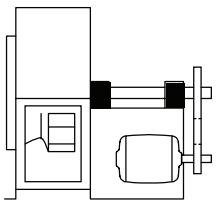
8 SWSI

For belt drive or direct connection. Arrangement 1 plus extended base for prime mover.



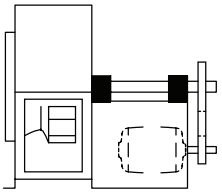
8 SWSI c/w BOX

For belt drive or direct connection. Arrangement 1 plus extended base for prime mover.



9 SWSI

For belt drive. Impeller overhung, two bearings, with prime mover outside base.



10 SWSI

For belt drive. Impeller overhung, two bearings, with prime mover inside base.

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