

Series 4000 Centrifugal BCI Fans

Industrial Duty

Design 4170 • Model 45

Design 4270 • Model 40

Design 4370 • Model 30



Series 4000 Centrifugal BCI Fans

The Series 4000 Centrifugal Backward Curved Industrial (BCI) fans are highly efficient with stable operation suited for a wide range of rigorous industrial applications. Due to the broad capabilities of the Series 4000 fan, this bulletin contains only limited performance information. Further information on extended performance and custom fans is available from your Northern Blower sales representative.

Industrial supply and exhaust:

- Thermal Oxidizers
- Baghouses
- Scrubbers
- Forced Draft
- Induced Draft
- Combustion Air Supply
- Pulp and Paper Machines
- Drying Kilns

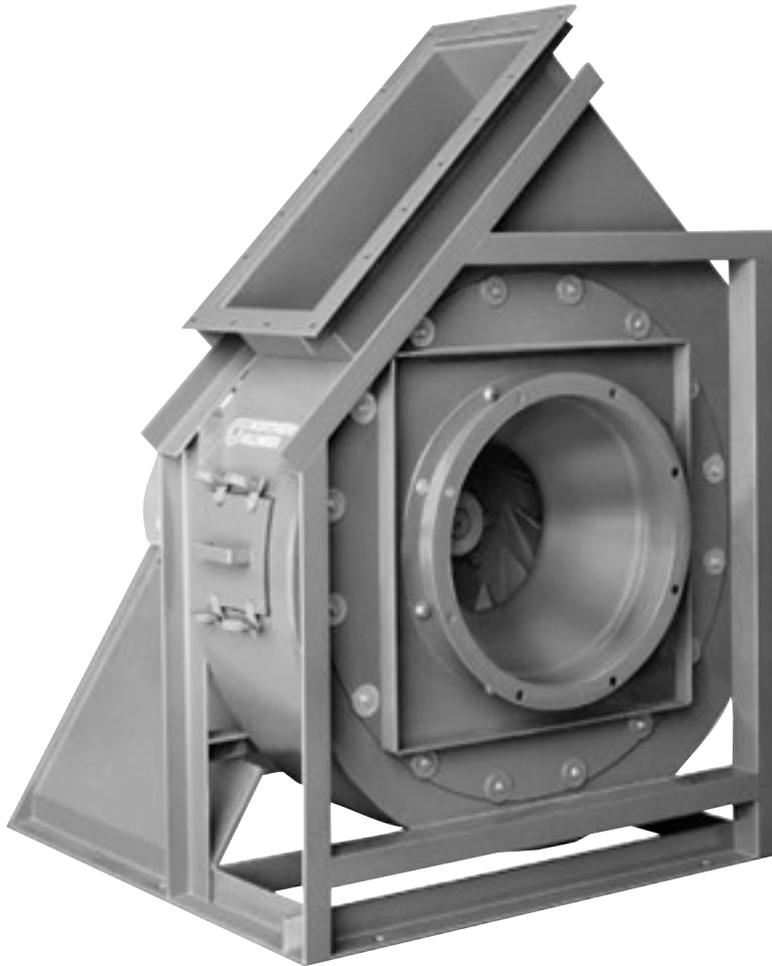
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Flanged Outlet

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

Backward Curved Wheel

Superior combination of efficient operation and rugged, dependable service.



Bearings

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

Shaft

Turned ground and polished or fully machined to close tolerance.

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, shaft seal and gasketted housing split on sizes 3650 and larger.

Balancing

Wheel and shaft assemblies are dynamically balanced to ISO 1940 specifications and are interference fit on all Models.

Shafts and Bearings

Shafts

Selected to have suitable strength and operate well below the first critical speed for each maximum class condition.

Bearings

Antifriction, grease or oil lubricated, heavy duty ball or split pillow block spherical roller, and manufactured to internationally adopted standards by companies having worldwide acceptance and support services. Bearings are selected for continuous belt driven operation with a generous bearing life at the maximum specified conditions.



Classes of Construction

Arrangement	Fan Size Range	
	Designs 4170 M45, 4270 M40, and 4370 M30	
A/1 SISW	2450 - 8075	
A/8 SISW *	2450 - 8900	
A/9F SISW	2450 - 6000	

*Refer to Bulletin 4000 for direct drive fan selection criteria.

Capacities, Pressures and Tip Speeds at 70°F				
Design Number	Nominal Specific Speed	High Strength Low Alloy Steel, SS304L & SS316L		
		Model	Maximum S.P. ("W.G.)	Volume at Maximum S.P. (CFM)
4170	15,000	45	48	70,000
4270	20,000	40	42	91,000
4370	25,000	30	33	110,000

The performance and limits of Designs 4170 Model 65, 4270 Model 55 and 4370 Model 45 fans can be determined using Northern Blower's **FanFinder™** and **FanQuote™** computer programs.

Temperatures

Operating Temperatures to 800°F. See Table 2, Page 6

Series 4000

Centrifugal BCI Wheel

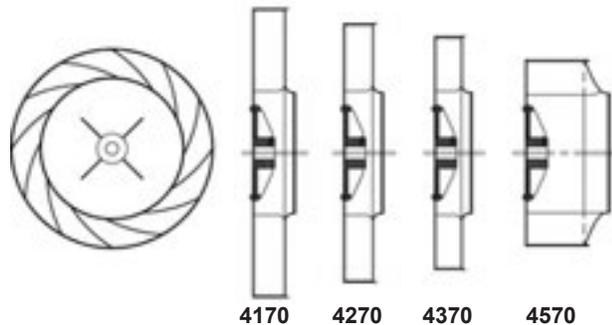
The Northern Blower Backward Curved Industrial (BCI) wheels have a single camber, backward curved design for high operating efficiency and a non-overloading horsepower characteristic. The blades are formed from heavy gauge single thickness material.

The fans are offered in a family of wheel designs with overlapping performance ranges. The backward curved wheels progress from large diameters with narrow blades to small diameters with wide blades, so that a perfectly sized fan can be supplied for the job. Performance tables are provided in this bulletin for Designs 4170, 4270 and 4370 at 110% of nominal

diameter. The performance for Design 4570 is in Bulletin 4500.

The nominal diameters available for the Models in this bulletin are 24-1/2" to 80-3/4". The impellers are available from 95 to 110% of nominal diameter in a fixed width housing.

Performance for these diameters is determined using Northern Blower's **FanFinder™** computer program.



Standard Features

- Heavy Duty Ball or Split Pillow Block Spherical Roller Bearings
- Integral Bearing Pedestal
- Punched Flanged Outlet
- Shaft Seal
- Wheel With Anti-thrust Vanes
- Horizontal Split Housing—Size 3650 and up
- Hinged Flush Mounted Access Door
- Slip Fit Inlet

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.



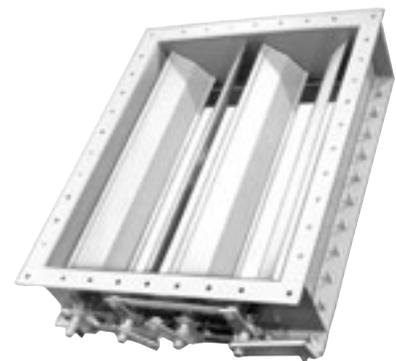
Hinged Quick Release Access Door

The hinged option adds hinges to the standard Quick Release Access Door. Both the standard and Hinged Quick Release Access Doors are mounted flush to the fan scroll and are secured with quick release handles.



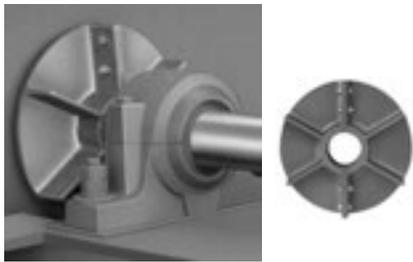
Outlet Damper

Opposed Blade Outlet Dampers are the least expensive air volume control device. Northern Blower Outlet Dampers have punched flanges on both ends to allow for convenient fan and duct connections. Outlet Dampers are available for operating temperatures to 800°F.



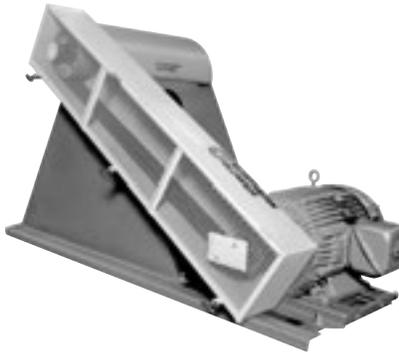
Cooling Wheel

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, with a mesh cover and quick release fasteners. Tachometer holes and safety colour coatings also available.



Variable Inlet Vanes

Variable Inlet Vanes provide accurate volume control with minimal reduction in performance efficiency. Fan performance remains stable through fully open to fully closed positions. Available for both manual and automatic operation to temperatures of 300°F. Special design available for temperatures to 650°F.



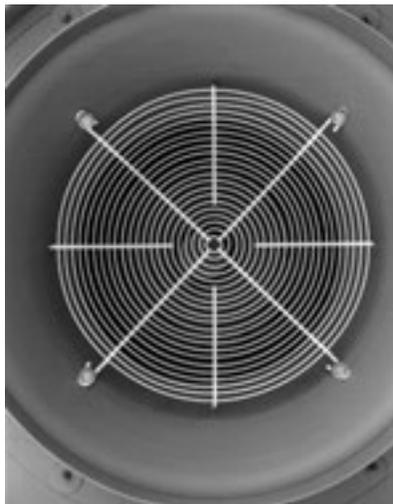
Flanged Inlet

Punched flanges to facilitate the bolting of duct connections to the fan inlet and outlet.



Inlet Screen

Steel screen mounted to the inlet cone. Screens are split where required for easy removal.



Additional Accessories

- Spark Resistant Construction
- Protective Coatings
- Split Housings
Accessory Sizes 2700-3300
Standard Sizes 3650-8075
- Special Metals
- Drain Openings
- High Temperature Construction
- Extended Grease Fittings
- Insulation Clips
- Mounted Drive Package
- Square Flanged Inlet
- Stainless Steel Construction

Due to the wide variety of 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 sales representative.

Fan Selection at Elevated Temperature and Altitude

Fan Selection Tables

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 1 is applied. Refer to the sample selection that follows.

Note that data in the selection tables does not include the effects of accessories such as inlet dampers, outlet dampers, screens, or other components in the air stream.

High Temperature

Fans selected for high temperature service must fall within the limits for a particular arrangement as shown in Table 2. For selection, both fan performance and physical operating limits must be corrected. Refer to the sample selection on the following page.

Table 1

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

Table 2

High Temperature Operating Limits		
Arrangement	Without Cooling Wheel	With Cooling Wheel
1 SW	300°F	800°F
8 SW *	300°F	800°F
9F SW	300°F	650°F

*Refer to bulletin 4000 for direct drive fan selection criteria.

Table 3

Arr. 1, 9F Wheel and Shaft Maximum Speeds at 70°F			
Size	High Strength Low Alloy Steel, SS304L and SS316L		
	Design 4170 Model 45	Design 4270 Model 40	Design 4370 Model 30
2450	3543	3402	3047
2700	3215	3087	2765
3000	2894	2778	2489
3300	2631	2525	2262
3650	2378	2283	2045
4025	2157	2071	1855
4450	1951	1873	1678
4900	1772	1701	1524
5425	1600	1536	1376
6000	1447	1389	1244
6600	1315	1263	1131
7300	1189	1142	1023
8075	1075	1032	925

Table 4

Safe Speed Deration Factors			
Temp °F	High Strength Low Alloy Steel	Stainless Steel 304L	Stainless Steel 316L
-50 to 70	1.00	1.00	1.00
100	0.99	0.99	0.98
200	0.97	0.96	0.91
300	0.96	0.92	0.87
400	0.95	0.88	0.83
500	0.94	0.84	0.80
600	0.92	0.81	0.77
700	0.87	0.78	0.74
800	0.68	0.75	0.72

Sample Selection of a Belt Drive Fan

Select a Series 4000 BCI fan for the operating conditions of 8000CFM at 30" SP, 200°F, 2000 feet elevation and high strength low alloy material.

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

$$\begin{aligned} \text{Equivalent SP} &= \text{Operating SP} \times \text{Air Density Corr. Factor} \\ &= 30" \times 1.34 = 40" \end{aligned}$$

- 2) From the Performance Tables, select the fan size. For 8000 CFM at 40" SP an efficient selection would be a Design 4170 size 3000 Model 45 fan. Interpolating from the Performance Table given on page 9, the selected fan performance is 2740 RPM and 67.1 BHP at standard temperature and pressure.

- 3) Divide the Equivalent BHP by the Air Density Correction

Factor to obtain the Operating BHP:

$$\begin{aligned} \text{Operating BHP} &= \frac{\text{Equivalent BHP}}{\text{Air Density Correction Factor}} \\ &= \frac{67.1}{1.34} = 50.0 \text{ BHP} \end{aligned}$$

- 4) Multiply the Wheel & Shaft Maximum Speed at 70°F values (Table 3) by the Safe Speed Deration Factors (Table 4). For a 4170 BCI fan, size 3000, Model 45, the maximum speed at 200°F is:

$$\text{Max Speed} = 2894 \times 0.97 = 2807 \text{ RPM}$$

Since the fan selection speed of 2740 RPM is below the maximum allowable speed, the Design 4170 Model 45 fan is a suitable selection.

Drive Configurations

Belt Drive

Design 4170, 4270 and 4370 BCI fans operate at high speeds in systems with large horsepower requirements. Motor sizes are limited to the maximum horsepower limits listed in the accompanying table.

Belt drives are carefully selected by Northern Blower to minimize shaft stress and increase bearing life.

On customer selected belt drives, consult with the motor manufacturer for the motor sheave minimum diameter and maximum width, on motors 125 HP and larger.

Direct Drive

Direct drive arrangements are suitable if the system pressure requirements are known and changes to the system are not expected. The advantage is that belt drive horsepower losses and belt maintenance are eliminated.

Refer to Bulletin 4000 for direct drive fan selection criteria.

The shafts and bearings selected by Northern Blower operate to these limits with a generous B-10 life.

Motor Horsepower Limits *	
Designs 4170, 4270 and 4370	
Size	Arrangement 1 Belt Drive
2450	75
2700	100
3000	125
3300	125
3650	150
4025	200
4450	250
4900	300
5425	350
6000	350
6600	350
7300	350
8075	350

*Refer to pages 29, 30 and 31 for maximum arrangement 9F motor frame sizes.

Wheel Diameter = 27.00 in.
 Outlet Area = 1.57 sq. ft. inside
 Maximum BHP = 1.45 x (RPM/1000)³
 Tip Speed, fpm = 7.07 x RPM

Size

2450 sisw

Model 45 Maximum RPM 3543
 Maximum Belt Drive Motor HP 75

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP		
CFM	FPM	RPM	BHP																			
4000	2543	2020	11.0	2125	12.5	2227	14.0	2326	15.5	2422	17.1	2643	21.2									
4100	2606	2038	11.3	2141	12.9	2242	14.4	2340	16.0	2434	17.6	2655	21.7									
4200	2670	2056	11.7	2158	13.3	2257	14.9	2354	16.5	2448	18.1	2667	22.3									
4400	2797	2095	12.5	2194	14.1	2290	15.8	2384	17.4	2475	19.1	2692	23.4	2892	27.8							
4600	2924	2136	13.4	2231	15.0	2324	16.7	2415	18.4	2505	20.2	2717	24.6	2915	29.1	3099	33.9					
4800	3051	2179	14.4	2270	16.0	2360	17.7	2449	19.5	2536	21.3	2744	25.8	2940	30.5	3123	35.3					
5000	3178	2223	15.4	2311	17.0	2398	18.8	2484	20.6	2569	22.4	2772	27.1	2965	31.9	3146	36.8	3314	41.9			
5200	3305	2270	16.5	2354	18.2	2438	19.9	2522	21.8	2603	23.6	2802	28.5	2991	33.4	3170	38.4	3338	43.6	3498	48.9	
5400	3432	2317	17.6	2399	19.4	2480	21.1	2560	23.0	2640	24.9	2834	29.9	3019	34.9	3195	40.1	3364	45.4	3520	50.7	
5600	3560	2366	18.9	2445	20.6	2523	22.4	2601	24.3	2678	26.2	2867	31.3	3049	36.5	3222	41.8	3387	47.1	3543	52.6	
5800	3687	2416	20.2	2492	22.0	2568	23.8	2643	25.7	2718	27.6	2901	32.8	3078	38.1	3250	43.6	3412	49.0			
6000	3814	2468	21.6	2541	23.4	2614	25.2	2687	27.2	2759	29.1	2937	34.3	3110	39.8	3278	45.4	3438	51.0			
6200	3941	2521	23.0	2591	24.9	2661	26.8	2732	28.7	2802	30.7	2975	36.0	3144	41.5	3307	47.2	3467	53.0			
6400	4068	2574	24.6	2642	26.5	2710	28.4	2778	30.4	2846	32.4	3014	37.7	3178	43.3	3339	49.2	3494	55.0			
6600	4195	2628	26.2	2694	28.1	2760	30.1	2825	32.1	2891	34.1	3054	39.5	3214	45.2	3371	51.1	3523	57.2			
6800	4322	2684	27.9	2747	29.9	2811	31.9	2875	33.9	2938	36.0	3096	41.4	3252	47.2	3405	53.2					
7000	4449	2739	29.7	2801	31.7	2862	33.7	2924	35.8	2985	37.9	3139	43.4	3291	49.2	3440	55.3					
7200	4577	2796	31.6	2856	33.6	2915	35.7	2975	37.9	3035	40.0	3184	45.5	3331	51.4	3476	57.5					
7400	4704	2853	33.6	2911	35.7	2969	37.8	3027	39.9	3084	42.1	3229	47.7	3373	53.6	3514	59.8					
7600	4831	2911	35.6	2967	37.7	3023	39.9	3079	42.1	3135	44.4	3276	50.1	3415	56.0							
8000	5085	3027	40.1	3081	42.3	3134	44.5	3187	46.8	3240	49.1	3372	55.0	3503	61.0							
8400	5339	3146	44.9	3197	47.2	3247	49.5	3297	51.9	3347	54.3	3471	60.3									
8800	5594	3266	50.2	3315	52.6	3362	55.0	3410	57.4	3457	59.9											
9200	5848	3387	55.9	3433	58.4	3479	60.9	3524	63.4													
9600	6102	3510	62.2																			

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 = 29.75 in.
 Outlet Area = 1.91 sq. ft. inside
 Maximum BHP = 2.35 x (RPM/1000)³
 Tip Speed, fpm = 7.79 x RPM

Size

2700 sisw

Model 45 Maximum RPM 3215
 Maximum Belt Drive Motor HP 100

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP		
CFM	FPM	RPM	BHP																			
4800	2512	1825	13.1	1922	14.9	2015	16.8	2106	18.6	2192	20.5	2393	25.4									
5000	2617	1852	13.8	1946	15.7	2037	17.6	2126	19.5	2211	21.5	2411	26.5									
5200	2722	1880	14.6	1971	16.5	2061	18.5	2147	20.5	2231	22.5	2430	27.6	2611	32.9							
5400	2826	1910	15.5	1998	17.4	2085	19.4	2169	21.5	2252	23.5	2449	28.8	2630	34.2							
5600	2931	1940	16.4	2026	18.3	2111	20.4	2193	22.5	2274	24.6	2467	30.0	2647	35.5	2813	41.2					
5800	3036	1972	17.3	2056	19.3	2138	21.4	2218	23.5	2298	25.7	2487	31.2	2665	36.8	2831	42.7					
6000	3140	2006	18.3	2086	20.3	2166	22.4	2245	24.6	2322	26.8	2508	32.5	2684	38.3	2848	44.2	3002	50.3			
6200	3245	2039	19.4	2118	21.4	2195	23.5	2272	25.7	2347	28.0	2530	33.8	2704	39.7	2866	45.7	3019	51.9			
6400	3350	2074	20.5	2150	22.5	2225	24.7	2300	26.9	2374	29.2	2552	35.2	2723	41.2	2886	47.4	3036	53.6	3180	60.1	
6600	3454	2110	21.7	2184	23.8	2257	25.9	2330	28.2	2401	30.5	2576	36.5	2744	42.7	2903	49.0	3055	55.4	3198	62.0	
6800	3559	2147	22.9	2218	25.0	2289	27.2	2360	29.5	2430	31.8	2601	38.0	2766	44.4	2923	50.7	3073	57.3	3215	63.9	
7000	3664	2184	24.2	2253	26.4	2323	28.6	2392	30.9	2460	33.3	2626	39.5	2788	45.9	2944	52.5	3092	59.1			
7200	3768	2223	25.6	2290	27.8	2357	30.0	2423	32.3	2490	34.7	2653	41.0	2812	47.6	2964	54.3	3113	61.1			
7400	3873	2261	27.0	2327	29.2	2392	31.5	2457	33.9	2522	36.3	2681	42.6	2836	49.3	2987	56.2	3131	63.0			
7600	3978	2301	28.5	2364	30.8	2427	33.1	2491	35.4	2554	37.9	2709	44.3	2861	51.0	3009	58.0	3152	65.1			
7800	4082	2341	30.0	2403	32.4	2464	34.7	2526	37.1	2587	39.6	2739	46.0	2888	52.9	3033	60.0	3173	67.1			
8000	4187	2382	31.7	2442	34.0	2501	36.4	2561	38.8	2621	41.3	2769	47.8	2914	54.7	3057	61.9	3195	69.3			
8400	4396	2465	35.1	2521	37.6	2578	40.0	2634	42.5	2691	45.1	2832	51.7	2971	58.7	3108	66.1					
8800	4606	2549	38.9	2603	41.4	2657	44.0	2710	46.6	2764	49.2	2898	55.9	3031	63.0	3163	70.5					
9200	4815	2635	42.9	2686	45.5	2737	48.2	2788	50.8	2839	53.5	2967	60.4	3094	67.6							
9600	5024	2722	47.3	2771	50.0	2820	52.7	2868	55.4	2917	58.2	3038	65.3	3160	72.6							
10000	5234	2810	52.0	2857	54.8	2903	57.6	2950	60.4	2997	63.3	3112	70.5									
10500	5495	2921	58.4	2966	61.3	3010	64.2	3054	67.1	3098	70.0	3207	77.5									
11000	5757	3035	65.4	3077	68.3	3119	71.3	3161	74.4	3202	77.4											
11500	6019	3148	72.9	3189	76.0																	

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 = 33.00 in.
 Outlet Area = 2.36 sq. ft. inside
 Maximum BHP = 3.98 x (RPM/1000)³
 Tip Speed, fpm = 8.64 x RPM

Model 45 Maximum RPM 2894
 Maximum Belt Drive Motor HP 125

Size

3000 SISW

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP	
CFM	FPM	RPM	BHP																		
6000	2544	1650	16.4	1736	18.7	1819	21.0	1900	23.3	1978	25.7	2159	31.8								
6200	2628	1669	17.2	1754	19.5	1835	21.9	1916	24.3	1992	26.7	2171	32.8								
6400	2713	1690	18.0	1772	20.3	1853	22.8	1931	25.2	2006	27.7	2185	34.0	2349	40.5						
6600	2798	1711	18.8	1792	21.2	1870	23.7	1947	26.2	2022	28.7	2199	35.1	2362	41.8						
6800	2883	1733	19.7	1812	22.1	1889	24.6	1964	27.2	2038	29.8	2212	36.3	2374	43.0						
7000	2968	1756	20.6	1833	23.0	1908	25.6	1982	28.2	2054	30.8	2227	37.6	2388	44.4	2536	51.5				
7200	3052	1780	21.6	1855	24.0	1928	26.6	2000	29.2	2071	31.9	2241	38.8	2401	45.8	2551	53.0				
7400	3137	1804	22.6	1876	25.0	1949	27.6	2019	30.3	2089	33.1	2257	40.1	2415	47.2	2562	54.5	2701	62.0		
7600	3222	1828	23.6	1900	26.1	1970	28.7	2039	31.4	2107	34.2	2273	41.4	2429	48.6	2576	56.1	2714	63.6		
7800	3307	1854	24.7	1923	27.2	1992	29.9	2060	32.6	2126	35.5	2289	42.7	2443	50.1	2589	57.6	2727	65.3	2857	73.3
8000	3391	1880	25.9	1947	28.4	2014	31.1	2080	33.8	2146	36.7	2306	44.1	2459	51.7	2603	59.3	2740	67.1	2868	75.1
8400	3561	1933	28.3	1997	30.9	2061	33.6	2124	36.4	2187	39.3	2342	47.0	2490	54.8	2631	62.7	2766	70.7	2894	78.9
8800	3731	1988	31.0	2049	33.6	2110	36.4	2171	39.2	2231	42.2	2380	50.0	2523	58.1	2661	66.2	2794	74.5		
9200	3900	2045	33.8	2103	36.6	2161	39.4	2219	42.3	2277	45.3	2420	53.2	2559	61.5	2693	69.9	2823	78.5		
9600	4070	2103	36.9	2158	39.7	2214	42.6	2269	45.6	2325	48.6	2462	56.5	2596	65.0	2727	73.7	2853	82.6		
10000	4239	2162	40.1	2215	43.1	2268	46.0	2321	49.1	2374	52.1	2506	60.2	2636	68.8	2763	77.8	2886	86.8		
10500	4451	2238	44.5	2288	47.6	2338	50.6	2388	53.8	2439	56.9	2564	65.1	2688	73.8	2810	83.0				
11000	4663	2315	49.3	2363	52.5	2411	55.7	2458	58.9	2506	62.1	2625	70.5	2743	79.3	2860	88.6				
11500	4875	2393	54.5	2439	57.7	2485	61.0	2530	64.4	2575	67.7	2688	76.3	2801	85.2						
12000	5087	2473	60.1	2517	63.5	2560	66.8	2603	70.2	2646	73.7	2754	82.5	2862	91.6						
12500	5299	2554	66.1	2595	69.6	2637	73.0	2679	76.6	2719	80.1	2822	89.1								
13000	5511	2635	72.6	2675	76.2	2715	79.7	2754	83.3	2794	87.0	2892	96.3								
13500	5723	2718	79.6	2756	83.2	2794	86.9	2832	90.6	2870	94.3										
14000	5935	2801	87.0	2837	90.7	2875	94.5														
14500	6147	2884	94.9																		

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 = 36.25 in.
 Outlet Area = 2.86 sq. ft. inside
 Maximum BHP = 7.29 x (RPM/1000)³
 Tip Speed, fpm = 9.49 x RPM

Model 45 Maximum RPM 2631
 Maximum Belt Drive Motor HP 125

Size

3300 SISW

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP	
CFM	FPM	RPM	BHP	RPM	BHP																
7000	2446	1457	18.5	1534	20.9	1610	23.3	1684	25.8	1756	28.4	1923	35.2								
7200	2516	1472	19.4	1547	21.7	1621	24.2	1694	26.7	1765	29.4	1932	36.3								
7400	2585	1488	20.2	1561	22.6	1633	25.1	1705	27.7	1775	30.3	1940	37.3								
7600	2655	1504	21.1	1575	23.5	1646	26.0	1716	28.6	1785	31.3	1950	38.4	2100	45.8						
7800	2725	1520	21.9	1590	24.5	1659	27.0	1728	29.6	1796	32.3	1958	39.4	2107	46.9						
8000	2795	1537	22.9	1606	25.4	1674	28.0	1740	30.7	1806	33.4	1967	40.6	2117	48.2						
8500	2970	1581	25.3	1646	28.0	1711	30.7	1774	33.4	1837	36.2	1991	43.6	2138	51.4	2275	59.4				
9000	3144	1627	28.0	1690	30.8	1751	33.6	1811	36.5	1871	39.4	2018	46.8	2161	54.8	2297	63.1	2423	71.6		
9500	3319	1675	30.9	1735	33.8	1794	36.8	1851	39.7	1908	42.7	2048	50.4	2186	58.5	2319	67.0	2444	75.7	2563	84.8
10000	3494	1724	34.0	1782	37.1	1838	40.1	1894	43.2	1948	46.3	2083	54.3	2214	62.5	2342	71.1	2466	80.1	2584	89.3
10500	3669	1775	37.4	1830	40.6	1884	43.7	1938	47.0	1991	50.2	2119	58.4	2245	66.8	2368	75.5	2489	84.7	2605	94.1
11000	3843	1828	41.1	1880	44.3	1932	47.6	1984	51.0	2035	54.3	2159	62.8	2279	71.4	2397	80.3	2514	89.6	2627	99.2
11500	4018	1882	45.1	1932	48.4	1982	51.8	2032	55.2	2081	58.7	2200	67.5	2316	76.4	2429	85.4	2541	94.8		
12000	4193	1937	49.4	1985	52.8	2033	56.3	2080	59.8	2127	63.4	2242	72.5	2354	81.6	2463	90.9	2571	100.4		
12500	4367	1993	54.1	2039	57.5	2085	61.1	2130	64.7	2176	68.3	2287	77.7	2395	87.2	2501	96.8	2604	106.4		
13000	4542	2050	59.0	2094	62.6	2138	66.2	2182	69.9	2226	73.7	2333	83.3	2437	93.0	2540	102.9				
13500	4717	2108	64.4	2151	68.0	2193	71.7	2235	75.5	2277	79.3	2380	89.2	2482	99.2	2580	109.3				
14000	4891	2167	70.0	2208	73.8	2248	77.6	2289	81.4	2329	85.3	2429	95.4	2527	105.7	2622	116.1				
14500	5066	2227	76.1	2266	79.9	2305	83.8	2344	87.7	2382	91.7	2479	102.0	2573	112.5						
15000	5241	2286	82.5	2324	86.5	2362	90.4	2400	94.5	2437	98.5	2529	108.9	2621	119.8						
15500	5415	2347	89.4	2384	93.4	2420	97.5	2456	101.6	2492	105.7	2582	116.4								
16000	5590	2409	96.7	2444	100.8	2478	104.9	2513	109.1	2548	113.4										
16500	5765	2470	104.3	2504	108.5	2538	112.8	2572	117.1	2605	121.4										
17000	5939	2532	112.4	2565	116.8	2598	121.2	2630	125.5												
17500	6114	2595	121.1	2627	125.5																

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 = 40.125 in.
 Outlet Area = 3.51 sq. ft. inside
 Maximum BHP = 12.1 x (RPM/1000)³
 Tip Speed, fpm = 10.5 x RPM

Size

3650 sisw

Model 45 Maximum RPM 2378
 Maximum Belt Drive Motor HP 150

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP	
CFM	FPM	RPM	BHP																		
8500	2428	1314	22.4	1384	25.3	1453	28.3	1520	31.3	1585	34.5	1737	42.8								
9000	2570	1342	24.5	1408	27.4	1474	30.4	1539	33.6	1603	36.8	1753	45.3								
9500	2713	1372	26.7	1435	29.7	1498	32.8	1560	36.0	1622	39.3	1769	48.0	1904	57.1						
10000	2856	1403	29.0	1465	32.2	1524	35.4	1583	38.6	1642	42.0	1785	50.9	1920	60.2	2045	70.0				
10500	2999	1436	31.5	1495	34.8	1552	38.1	1609	41.5	1666	44.9	1804	53.9	1936	63.5	2060	73.5				
11000	3141	1470	34.2	1527	37.6	1582	41.1	1637	44.5	1691	48.1	1824	57.2	1953	66.9	2076	77.1	2190	87.6		
11500	3284	1505	37.1	1560	40.6	1614	44.2	1667	47.8	1719	51.4	1846	60.7	1971	70.6	2092	81.0	2206	91.6	2314	102.7
12000	3427	1541	40.1	1594	43.8	1646	47.5	1698	51.3	1748	55.0	1870	64.5	1991	74.5	2109	85.0	2222	95.9	2330	107.2
12500	3570	1579	43.4	1630	47.2	1680	51.0	1729	54.9	1778	58.7	1897	68.5	2013	78.6	2127	89.3	2239	100.4	2345	111.9
13000	3713	1617	46.9	1666	50.8	1715	54.7	1762	58.7	1810	62.7	1925	72.7	2037	83.1	2147	93.8	2256	105.2	2360	116.7
13500	3855	1656	50.6	1703	54.6	1750	58.6	1797	62.7	1842	66.8	1954	77.3	2062	87.8	2169	98.6	2275	110.1	2377	121.8
14000	3998	1696	54.6	1742	58.7	1787	62.8	1832	67.0	1876	71.2	1984	81.9	2090	92.7	2193	103.8	2294	115.2		
14500	4141	1736	58.9	1780	63.0	1824	67.2	1868	71.4	1910	75.8	2016	86.8	2118	97.9	2218	109.2	2316	120.8		
15000	4284	1778	63.4	1820	67.6	1863	71.9	1905	76.2	1946	80.7	2049	92.0	2148	103.4	2244	114.8	2340	126.6		
15500	4427	1819	68.2	1860	72.4	1901	76.8	1942	81.2	1982	85.8	2082	97.3	2179	109.1	2272	120.8	2365	132.8		
16000	4569	1862	73.2	1902	77.6	1941	82.0	1981	86.6	2019	91.2	2116	103.0	2210	115.0	2302	127.1				
16500	4712	1905	78.6	1943	83.0	1981	87.5	2019	92.1	2057	96.8	2151	108.9	2243	121.2	2332	133.5				
17000	4855	1948	84.2	1985	88.7	2022	93.4	2059	98.1	2096	102.8	2187	115.0	2276	127.6	2363	140.3				
17500	4998	1992	90.1	2028	94.8	2064	99.5	2099	104.2	2135	109.1	2223	121.6	2310	134.4						
18000	5141	2036	96.4	2071	101.1	2106	105.9	2140	110.8	2175	115.7	2260	128.3	2345	141.4						
18500	5283	2080	102.9	2114	107.8	2148	112.7	2182	117.7	2215	122.6	2298	135.4								
19000	5426	2125	109.9	2158	114.8	2191	119.8	2224	124.8	2256	129.9	2337	142.9								
19500	5569	2171	117.1	2203	122.2	2234	127.2	2266	132.4	2298	137.6	2376	150.7								
20000	5712	2216	124.7	2247	129.8	2278	135.0	2309	140.3	2339	145.5										
21000	5997	2308	141.0	2338	146.4	2367	151.7														

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.

Wheel Diameter = 44.25 in.
 Outlet Area = 4.26 sq. ft. inside
 Maximum BHP = 19.7 x (RPM/1000)³
 Tip Speed, fpm = 11.6 x RPM

Size

4025 sisw

Model 45 Maximum RPM 2157
 Maximum Belt Drive Motor HP 200

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP	
CFM	FPM	RPM	BHP																		
10500	2466	1198	27.9	1261	31.4	1323	35.0	1384	38.9	1442	42.7	1579	52.8								
11000	2583	1219	30.0	1279	33.6	1339	37.2	1398	41.1	1455	45.1	1591	55.4								
11500	2701	1242	32.2	1299	35.9	1356	39.6	1413	43.5	1469	47.6	1603	58.1	1726	69.2						
12000	2818	1265	34.5	1321	38.3	1376	42.2	1430	46.1	1484	50.2	1615	61.0	1738	72.3	1850	83.9				
12500	2936	1289	37.0	1343	40.9	1397	44.9	1449	48.9	1501	53.0	1628	64.0	1750	75.5	1861	87.4				
13000	3053	1314	39.5	1367	43.6	1418	47.7	1469	51.8	1519	56.0	1643	67.1	1762	78.9	1874	91.0	1978	103.6		
13500	3171	1339	42.3	1391	46.5	1441	50.7	1490	54.9	1538	59.3	1658	70.5	1775	82.3	1886	94.8	1989	107.5		
14000	3288	1366	45.2	1415	49.5	1464	53.8	1512	58.2	1559	62.7	1675	74.0	1788	86.0	1898	98.6	2001	111.6	2099	125.0
14500	3405	1393	48.2	1441	52.6	1489	57.2	1535	61.7	1581	66.2	1693	77.7	1803	89.8	1910	102.6	2013	115.9	2110	129.5
15000	3523	1420	51.4	1467	56.0	1513	60.6	1559	65.2	1603	69.9	1712	81.7	1819	94.0	1923	106.8	2025	120.3	2121	134.0
15500	3640	1449	54.8	1494	59.5	1539	64.2	1583	69.0	1627	73.8	1732	85.8	1836	98.3	1938	111.3	2037	124.8	2133	138.9
16000	3758	1477	58.5	1522	63.2	1565	68.0	1608	72.9	1650	77.8	1753	90.1	1854	102.8	1953	115.9	2051	129.6	2146	143.9
16500	3875	1507	62.2	1549	67.0	1592	71.9	1634	76.9	1675	82.0	1776	94.7	1873	107.5	1970	120.8	2066	134.7		
17000	3993	1536	66.3	1578	71.1	1619	76.1	1660	81.2	1700	86.4	1798	99.4	1894	112.5	1987	125.9	2080	139.9		
17500	4110	1566	70.4	1607	75.4	1647	80.5	1686	85.7	1726	90.9	1822	104.3	1915	117.6	2006	131.3	2096	145.4		
18000	4227	1597	74.9	1636	79.9	1675	85.1	1714	90.4	1752	95.7	1846	109.3	1937	123.1	2025	136.9	2114	151.2		
18500	4345	1628	79.5	1666	84.7	1704	89.9	1741	95.2	1779	100.7	1870	114.6	1959	128.6	2046	142.8	2131	157.1		
19000	4462	1659	84.4	1696	89.6	1733	94.9	1770	100.4	1806	105.9	1895	120.1	1983	134.4	2067	148.8	2151	163.4		
20000	4697	1723	94.8	1758	100.2	1793	105.7	1827	111.3	1862	117.0	1947	131.6	2031	146.6	2112	161.5				
21000	4932	1788	106.2	1821	111.8	1854	117.5	1887	123.2	1920	129.1	2001	144.1	2081	159.6						
22000	5167	1854	118.7	1885	124.4	1916	130.3	1948	136.2	1979	142.2	2056	157.6	2132	173.5						
23000	5402	1920	132.1	1950	138.1	1980	144.2	2010	150.2	2039	156.4	2113	172.2								
24000	5636	1988	146.8	2017	152.9	2045	159.1	2073	165.5	2101	171.8										
25000	5871	2056	162.5	2084	168.9	2111	175.4	2138	181.8												
26000	6106	2125	179.5	2152	186.2																

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 = 49.00 in.
 Outlet Area = 5.20 sq. ft. inside
 Maximum BHP = 32.5 x (RPM/1000)³
 Tip Speed, fpm = 12.8 x RPM

Model 45 Maximum RPM 1951
 Maximum Belt Drive Motor HP 250

Size

4450 SISW

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP	
CFM	FPM	RPM	BHP																		
13000	2498	1089	34.8	1145	39.1	1200	43.5	1254	48.2	1308	53.0	1431	65.4								
13500	2594	1105	36.9	1159	41.3	1212	45.8	1265	50.5	1317	55.4	1440	68.0								
14000	2690	1121	39.1	1174	43.6	1225	48.2	1277	52.9	1327	57.8	1449	70.7	1560	84.2						
14500	2786	1138	41.4	1189	46.0	1240	50.7	1289	55.5	1338	60.4	1458	73.6	1569	87.4						
15000	2882	1156	43.8	1206	48.5	1254	53.3	1302	58.2	1350	63.2	1467	76.5	1577	90.4	1680	105.0				
15500	2978	1174	46.3	1222	51.2	1270	56.1	1317	61.1	1363	66.2	1477	79.5	1586	93.7	1688	108.4				
16000	3074	1193	48.9	1240	53.9	1287	59.0	1332	64.0	1377	69.2	1488	82.7	1596	97.1	1696	112.0	1791	127.5		
16500	3170	1211	51.7	1258	56.8	1303	62.0	1348	67.2	1391	72.4	1500	86.1	1605	100.6	1706	115.8	1799	131.3		
17000	3266	1231	54.6	1276	59.8	1320	65.1	1364	70.5	1407	75.8	1512	89.6	1615	104.2	1714	119.6	1808	135.5	1897	151.9
17500	3362	1251	57.5	1295	62.9	1338	68.3	1381	73.8	1422	79.3	1525	93.3	1626	108.1	1723	123.6	1817	139.7	1904	156.1
18000	3458	1271	60.7	1314	66.2	1356	71.7	1398	77.3	1439	82.9	1539	97.2	1637	112.1	1734	127.8	1825	144.0	1913	160.8
18500	3555	1292	64.0	1334	69.6	1375	75.2	1416	80.9	1456	86.7	1553	101.2	1649	116.2	1743	132.0	1835	148.6	1922	165.4
19000	3651	1313	67.4	1353	73.1	1394	78.9	1434	84.7	1473	90.6	1569	105.4	1662	120.6	1754	136.5	1844	153.1	1930	170.3
19500	3747	1334	71.0	1374	76.8	1413	82.6	1452	88.6	1491	94.6	1584	109.7	1675	125.1	1765	141.1	1854	157.9	1940	175.3
20000	3843	1355	74.8	1394	80.6	1433	86.6	1471	92.7	1509	98.8	1601	114.2	1690	129.9	1777	146.0	1864	162.9	1948	180.3
20500	3939	1377	78.7	1415	84.6	1453	90.7	1490	96.8	1527	103.1	1617	118.8	1704	134.7	1790	151.1	1875	168.0		
21000	4035	1399	82.8	1437	88.8	1474	95.0	1510	101.3	1546	107.6	1634	123.7	1720	139.8	1803	156.2	1887	173.4		
22000	4227	1445	91.5	1480	97.7	1515	104.0	1550	110.4	1585	117.0	1669	133.6	1752	150.5	1832	167.3	1912	184.8		
23000	4419	1490	100.9	1524	107.3	1558	113.7	1591	120.3	1624	127.1	1706	144.2	1786	161.7	1863	179.1	1939	196.9		
24000	4611	1537	111.1	1570	117.7	1602	124.3	1634	131.0	1665	137.9	1744	155.6	1820	173.6	1895	191.7				
25000	4803	1585	122.0	1616	128.8	1646	135.6	1677	142.5	1708	149.6	1783	167.7	1857	186.2	1929	205.0				
26000	4996	1633	133.8	1663	140.8	1692	147.7	1721	154.8	1751	162.0	1823	180.5	1894	199.5						
27000	5188	1682	146.4	1710	153.5	1739	160.7	1767	168.0	1795	175.3	1864	194.2	1933	213.7						
28000	5380	1731	159.9	1759	167.2	1786	174.6	1813	182.0	1840	189.5	1907	208.8								
29000	5572	1781	174.4	1807	181.8	1833	189.3	1859	197.0	1885	204.7	1949	224.2								

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 = 54.00 in.
 Outlet Area = 6.31 sq. ft. inside
 Maximum BHP = 52.6 x (RPM/1000)³
 Tip Speed, fpm = 14.1 x RPM

Model 45 Maximum RPM 1772
 Maximum Belt Drive Motor HP 300

Size

4900 SISW

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP	
CFM	FPM	RPM	BHP																		
15500	2456	983	41.1	1034	46.3	1085	51.7	1136	57.3	1184	63.0	1296	78.0								
16000	2535	995	43.2	1044	48.4	1094	53.9	1143	59.5	1191	65.3	1303	80.6								
16500	2615	1006	45.3	1055	50.6	1103	56.1	1151	61.8	1198	67.8	1309	83.2	1410	99.3						
17000	2694	1019	47.5	1066	52.9	1113	58.5	1160	64.3	1206	70.3	1316	85.9	1417	102.3						
17500	2773	1032	49.8	1078	55.4	1124	61.0	1169	66.8	1214	72.9	1323	88.7	1424	105.4						
18000	2852	1045	52.2	1090	57.9	1135	63.6	1179	69.5	1223	75.6	1330	91.6	1430	108.4	1523	126.0				
18500	2932	1058	54.7	1103	60.5	1147	66.4	1190	72.3	1232	78.5	1337	94.6	1437	111.7	1529	129.3				
19000	3011	1072	57.2	1116	63.2	1158	69.2	1200	75.2	1242	81.4	1345	97.7	1443	115.0	1536	133.0	1621	151.3		
19500	3090	1086	59.9	1129	65.9	1171	72.1	1212	78.3	1253	84.6	1353	101.0	1450	118.4	1542	136.5	1628	155.4		
20000	3169	1100	62.6	1142	68.9	1183	75.1	1224	81.4	1263	87.8	1362	104.4	1458	121.9	1549	140.4	1634	159.2		
20500	3249	1115	65.5	1156	71.8	1196	78.2	1236	84.7	1275	91.1	1371	107.8	1465	125.6	1555	144.1	1641	163.4	1721	183.1
21000	3328	1129	68.5	1170	74.9	1209	81.4	1248	88.0	1287	94.6	1381	111.5	1473	129.4	1562	148.1	1647	167.5	1726	187.4
22000	3486	1160	74.8	1198	81.4	1237	88.1	1274	95.0	1311	101.8	1401	119.2	1490	137.4	1577	156.4	1660	176.1	1739	196.5
23000	3645	1191	81.5	1228	88.3	1265	95.3	1301	102.4	1337	109.5	1424	127.5	1509	145.9	1592	165.2	1674	185.3	1753	206.1
24000	3803	1223	88.8	1259	95.8	1294	103.0	1329	110.3	1364	117.7	1447	136.2	1529	155.0	1610	174.6	1689	194.9	1766	216.1
25000	3962	1256	96.6	1290	103.8	1324	111.2	1358	118.7	1391	126.3	1472	145.4	1551	164.7	1629	184.7	1705	205.2		
26000	4120	1289	105.0	1322	112.3	1355	119.9	1387	127.6	1419	135.4	1498	155.1	1574	175.0	1649	195.3	1723	216.1		
27000	4279	1323	114.0	1355	121.5	1386	129.2	1418	137.1	1449	145.1	1525	165.5	1599	185.9	1671	206.6	1742	227.8		
28000	4437	1357	123.5	1388	131.2	1418	139.0	1449	147.1	1479	155.3	1552	176.2	1625	197.4	1694	218.5	1763	240.2		
29000	4596	1393	133.7	1422	141.6	1451	149.6	1480	157.8	1509	166.1	1581	187.5	1651	209.2	1719	231.2				
30000	4754	1428	144.5	1456	152.6	1485	160.7	1513	169.1	1541	177.6	1610	199.5	1678	221.7	1744	244.2				
31000	4912	1464	156.0	1492	164.3	1519	172.7	1546	181.1	1573	189.7	1640	212.0	1706	234.9	1770	257.8				
32000	5071	1501	168.2	1527	176.6	1553	185.1	1579	193.8	1606	202.7	1670	225.3	1734	248.5						
33000	5229	1537	181.0	1563	189.6	1588	198.4	1614	207.3	1639	216.2	1701	239.2	1763	263.0						
34000	5388	1574	194.6	1599	203.5	1624	212.5	1648	221.4	1672	230.5	1733	254.0								

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 = 59.75 in.
 Outlet Area = 7.71 sq. ft. inside
 Maximum BHP = 87.5 x (RPM/1000)³
 Tip Speed, fpm = 15.6 x RPM

Size

5425 sisw

Model 45 Maximum RPM 1600
 Maximum Belt Drive Motor HP 350

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP	
CFM	FPM	RPM	BHP																		
20000	2586	905	54.5	950	61.1	993	67.7	1037	74.8	1080	82.0	1180	100.7								
21000	2715	923	59.0	966	65.7	1008	72.5	1050	79.6	1091	87.0	1190	106.2	1281	126.3						
22000	2844	942	63.7	984	70.6	1024	77.6	1064	84.9	1104	92.4	1200	111.9	1291	132.5	1375	153.9				
23000	2973	962	68.6	1002	75.9	1041	83.1	1080	90.5	1118	98.1	1211	117.9	1301	139.0	1384	160.8				
24000	3103	983	74.0	1021	81.4	1059	88.9	1097	96.6	1133	104.3	1223	124.4	1311	145.8	1394	168.1	1471	191.1		
25000	3232	1004	79.5	1041	87.3	1078	95.1	1114	102.9	1149	110.8	1236	131.3	1322	153.0	1403	175.6	1481	199.3	1553	223.2
26000	3361	1026	85.5	1062	93.5	1098	101.5	1132	109.6	1167	117.7	1251	138.6	1334	160.6	1414	183.6	1490	207.6	1562	232.0
27000	3491	1048	91.8	1083	100.0	1118	108.3	1151	116.7	1185	125.1	1266	146.4	1346	168.6	1425	192.0	1500	216.2	1571	241.2
28000	3620	1071	98.5	1105	106.9	1138	115.5	1171	124.1	1204	132.8	1283	154.6	1360	177.1	1436	200.8	1510	225.3	1581	250.8
29000	3749	1095	105.7	1127	114.3	1160	123.0	1192	131.8	1223	140.8	1300	163.2	1374	186.1	1448	210.0	1521	234.9	1591	260.8
30000	3878	1118	113.3	1150	122.0	1181	130.9	1212	140.0	1243	149.1	1318	172.3	1390	195.6	1462	219.7	1533	245.0		
31000	4008	1143	121.3	1174	130.2	1204	139.3	1234	148.6	1264	158.0	1337	181.7	1407	205.6	1476	230.0	1545	255.4		
32000	4137	1167	129.8	1197	138.8	1227	148.1	1256	157.5	1285	167.1	1356	191.5	1424	215.9	1492	240.9	1558	266.4		
33000	4266	1193	138.8	1221	148.0	1250	157.4	1278	167.1	1306	176.9	1376	201.9	1442	226.9	1508	252.1	1572	278.1		
34000	4395	1218	148.2	1246	157.6	1273	167.2	1301	177.0	1328	186.9	1396	212.4	1461	238.2	1525	264.0	1587	290.3		
35000	4525	1244	158.2	1271	167.8	1298	177.5	1324	187.5	1351	197.6	1416	223.6	1480	249.8	1542	276.3				
36000	4654	1270	168.7	1296	178.4	1322	188.3	1348	198.4	1374	208.7	1437	235.1	1500	262.2	1561	289.1				
37000	4783	1296	179.6	1321	189.6	1347	199.7	1372	210.0	1397	220.5	1459	247.3	1520	274.7	1579	302.5				
38000	4913	1322	191.2	1347	201.3	1372	211.7	1396	222.1	1421	232.6	1481	259.8	1541	287.9	1598	316.1				
39000	5042	1349	203.4	1373	213.7	1397	224.1	1421	234.6	1445	245.4	1504	273.2	1561	301.5						
40000	5171	1376	216.0	1400	226.5	1423	237.1	1446	247.9	1469	258.9	1526	286.8	1583	315.7						
42000	5430	1431	243.1	1453	254.1	1475	265.1	1497	276.1	1519	287.4	1573	316.1								
44000	5688	1486	272.8	1507	284.0	1528	295.4	1549	307.0	1569	318.4										
46000	5947	1542	304.8	1562	316.6	1582	328.4														
48000	6205	1599	339.8																		

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 = 66.00 in.
 Outlet Area = 9.43 sq. ft. inside
 Maximum BHP = 145 x (RPM/1000)³
 Tip Speed, fpm = 17.3 x RPM

Size

6000 sisw

Model 45 Maximum RPM 1447
 Maximum Belt Drive Motor HP 350

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP	
CFM	FPM	RPM	BHP																		
23000	2431	800	60.7	842	68.4	884	76.5	925	84.8	965	93.4	1057	115.8								
24000	2537	812	64.8	853	72.6	894	80.8	933	89.3	972	98.0	1064	121.0								
25000	2642	825	69.1	865	77.1	904	85.4	942	94.0	981	102.9	1071	126.2	1154	150.5						
26000	2748	839	73.6	877	81.9	915	90.3	952	99.0	989	108.0	1078	131.6	1161	156.4						
27000	2854	853	78.3	891	86.9	927	95.5	963	104.3	999	113.5	1086	137.4	1168	162.6	1244	188.9				
28000	2959	868	83.3	904	92.1	940	100.9	975	110.0	1009	119.2	1094	143.4	1175	169.1	1250	195.8				
29000	3065	883	88.5	918	97.6	953	106.7	987	115.9	1020	125.3	1103	149.9	1183	176.0	1258	203.0	1328	231.1		
30000	3171	899	94.0	933	103.3	966	112.7	999	122.1	1032	131.7	1112	156.6	1190	182.9	1265	210.6	1334	238.8		
31000	3276	915	99.8	948	109.3	981	118.9	1013	128.7	1045	138.5	1122	163.6	1199	190.2	1272	218.2	1341	247.0	1407	276.9
32000	3382	931	105.8	963	115.6	995	125.5	1027	135.4	1057	145.4	1133	171.0	1207	197.9	1280	226.2	1349	255.7	1414	285.6
33000	3488	947	112.2	979	122.1	1010	132.3	1041	142.5	1071	152.8	1145	178.9	1217	206.1	1288	234.6	1356	264.2	1421	294.8
34000	3593	964	118.8	995	129.0	1026	139.5	1055	149.9	1085	160.5	1156	186.9	1227	214.4	1296	243.3	1363	273.3	1428	304.6
35000	3699	982	125.9	1011	136.2	1041	146.8	1070	157.5	1099	168.3	1169	195.5	1238	223.3	1305	252.3	1372	282.9	1435	314.0
36000	3805	999	133.2	1028	143.8	1057	154.6	1086	165.6	1114	176.6	1182	204.3	1249	232.6	1315	261.9	1379	292.4	1443	324.2
38000	4016	1035	149.1	1062	160.0	1090	171.1	1117	182.5	1144	194.0	1210	223.0	1273	252.4	1336	282.2	1397	313.3		
40000	4228	1071	166.4	1098	177.6	1124	189.1	1150	200.8	1175	212.8	1238	243.0	1300	273.6	1359	304.2	1418	335.9		
42000	4439	1109	185.3	1134	196.9	1159	208.7	1183	220.7	1208	233.0	1268	264.3	1327	296.2	1384	327.9	1440	360.4		
44000	4650	1147	206.0	1171	217.9	1195	230.0	1218	242.3	1241	254.9	1299	287.2	1356	320.2	1410	353.1				
46000	4862	1186	228.2	1209	240.5	1231	253.0	1254	265.8	1276	278.6	1331	311.7	1385	345.7	1438	380.0				
48000	5073	1226	252.5	1247	265.1	1269	277.9	1290	290.9	1312	304.1	1364	338.1	1416	372.9						
50000	5284	1266	278.3	1286	291.4	1307	304.7	1327	318.1	1348	331.5	1398	366.2								
52000	5496	1306	306.3	1326	319.9	1346	333.4	1365	347.1	1385	361.1	1433	396.3								
54000	5707	1347	336.4	1366	350.2	1385	364.2	1404	378.4	1422	392.4										
56000	5919	1389	368.4	1407	382.8	1425	397.2	1443	411.5												
58000	6130	1431	402.8																		

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 = 72.50 in.
 Outlet Area = 11.43 sq. ft. inside
 Maximum BHP = 233 x (RPM/1000)³
 Tip Speed, fpm = 19.0 x RPM

Model 45 Maximum RPM 1315
 Maximum Belt Drive Motor HP 350

Size

6600 SISW

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP	
CFM	FPM	RPM	BHP																		
28000	2446	729	74.1	767	83.5	805	93.3	842	103.4	878	113.8	962	140.9								
29000	2533	738	78.2	775	87.7	812	97.6	848	107.8	884	118.4	967	146.1								
30000	2620	748	82.5	784	92.2	820	102.1	855	112.5	890	123.3	972	151.2	1048	180.5						
31000	2708	758	86.9	793	96.8	828	106.9	862	117.5	896	128.3	978	156.7	1053	186.5						
32000	2795	769	91.6	803	101.7	837	112.0	870	122.6	903	133.5	984	162.5	1059	192.8						
33000	2882	779	96.3	813	106.8	846	117.3	878	128.0	910	139.1	989	168.2	1064	198.9	1133	231.0				
34000	2970	790	101.4	823	112.0	855	122.8	887	133.8	918	145.0	995	174.3	1069	205.4	1137	237.7				
35000	3057	802	106.6	834	117.5	865	128.6	896	139.7	927	151.0	1002	180.8	1075	212.4	1143	245.0	1207	278.9		
36000	3144	813	112.0	845	123.2	875	134.5	906	145.9	936	157.4	1009	187.3	1080	219.1	1148	252.5	1211	286.5		
38000	3319	837	123.6	867	135.3	897	147.1	926	158.9	954	170.9	1024	201.6	1093	233.9	1160	268.0	1222	303.0	1281	339.1
40000	3494	862	136.2	891	148.2	919	160.5	947	172.9	974	185.4	1041	217.0	1107	249.9	1171	284.4	1233	320.4	1292	357.3
42000	3669	888	149.8	915	162.2	942	175.0	969	187.9	995	200.9	1060	233.6	1122	267.1	1184	302.1	1245	338.8	1303	376.5
44000	3843	914	164.5	940	177.4	966	190.5	992	203.9	1017	217.4	1079	251.3	1139	285.7	1198	321.1	1257	358.4	1314	396.8
46000	4018	941	180.5	966	193.7	991	207.2	1016	221.0	1040	235.0	1100	270.1	1158	305.6	1214	341.6	1271	379.3		
48000	4193	968	197.7	992	211.2	1016	225.0	1040	239.1	1064	253.5	1121	289.8	1177	326.6	1232	363.6	1286	401.7		
50000	4367	997	216.3	1020	230.1	1042	244.2	1065	258.7	1088	273.3	1143	310.8	1198	348.7	1250	387.0	1302	425.6		
52000	4542	1025	236.1	1047	250.4	1069	264.8	1091	279.7	1113	294.6	1166	333.1	1219	372.1	1270	411.6				
54000	4717	1054	257.4	1075	272.0	1096	286.8	1117	301.8	1138	317.2	1190	356.7	1241	396.9	1290	437.3				
56000	4891	1083	280.1	1104	295.1	1124	310.3	1144	325.7	1164	341.3	1214	381.4	1263	422.9	1311	464.5				
58000	5066	1113	304.5	1133	319.7	1152	335.2	1172	350.9	1191	366.9	1239	408.0	1287	450.0						
60000	5241	1143	330.1	1162	345.8	1181	361.8	1200	378.0	1218	394.1	1265	435.8	1311	479.1						
62000	5415	1174	357.5	1192	373.7	1210	390.0	1228	406.3	1246	422.9	1291	465.5								
64000	5590	1204	386.7	1222	403.1	1239	419.7	1257	436.6	1274	453.5										
66000	5765	1235	417.3	1252	434.2	1269	451.3	1286	468.5	1302	485.6										
68000	5939	1266	449.8	1283	467.2	1299	484.7														

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.

Wheel Diameter = 80.25 in.
 Outlet Area = 13.96 sq. ft. inside
 Maximum BHP = 386 x (RPM/1000)³
 Tip Speed, fpm = 21.0 x RPM

Model 45 Maximum RPM 1189
 Maximum Belt Drive Motor HP 350

Size

7300 SISW

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP	
CFM	FPM	RPM	BHP																		
35000	2499	664	93.7	698	105.3	732	117.2	765	129.7	797	142.7	872	176.1								
36000	2570	671	97.9	704	109.6	737	121.7	770	134.4	801	147.4	876	181.3								
38000	2713	686	106.6	718	118.8	749	131.2	780	144.1	811	157.4	884	192.1	952	228.5						
40000	2856	702	116.0	732	128.7	762	141.5	792	154.6	821	168.1	893	203.6	960	240.9	1022	279.9				
42000	2999	718	126.1	748	139.3	776	152.5	805	166.0	833	179.8	902	215.8	968	254.0	1030	293.9				
44000	3141	735	136.8	763	150.5	791	164.3	819	178.2	846	192.3	912	228.9	977	267.8	1038	308.6	1095	350.2		
46000	3284	753	148.3	780	162.4	807	176.8	833	191.2	859	205.7	923	242.9	986	282.4	1046	323.9	1103	366.6	1157	410.8
48000	3427	771	160.5	797	175.1	823	190.0	849	205.0	874	220.0	935	258.0	996	297.9	1055	340.1	1111	383.7	1165	428.9
50000	3570	789	173.6	815	188.7	840	204.0	865	219.4	889	234.9	948	274.0	1006	314.5	1064	357.2	1119	401.7	1172	447.4
52000	3713	809	187.7	833	203.0	857	218.7	881	234.6	905	250.7	962	291.0	1018	332.2	1074	375.3	1128	420.6	1180	466.8
54000	3855	828	202.6	852	218.3	875	234.4	898	250.8	921	267.3	977	309.1	1031	351.1	1084	394.6	1137	440.3	1188	487.2
56000	3998	848	218.6	871	234.7	893	251.1	916	267.9	938	284.9	992	327.7	1045	370.9	1096	415.1	1147	461.0		
58000	4141	868	235.5	890	251.9	912	268.7	934	285.8	955	303.2	1008	347.3	1059	391.6	1109	436.9	1158	483.0		
60000	4284	889	253.6	910	270.4	931	287.5	952	305.0	973	322.7	1024	368.0	1074	413.5	1122	459.4	1170	506.5		
62000	4427	910	272.6	930	289.7	951	307.1	971	324.9	991	343.1	1041	389.4	1089	436.4	1136	483.2	1183	531.2		
64000	4569	931	292.9	951	310.4	971	328.2	990	346.3	1010	364.6	1058	411.9	1105	459.9	1151	508.5				
66000	4712	952	314.2	972	332.0	991	350.1	1010	368.5	1029	387.3	1075	435.6	1121	484.8	1166	534.1				
68000	4855	974	336.7	993	354.9	1011	373.4	1030	392.3	1048	411.3	1093	460.2	1138	510.5	1182	561.3				
70000	4998	996	360.6	1014	379.3	1032	398.0	1050	417.0	1067	436.3	1112	486.2	1155	537.4						
72000	5141	1018	385.6	1035	404.5	1053	423.6	1070	443.1	1088	463.0	1130	513.3	1172	565.4						
74000	5283	1040	411.8	1057	431.2	1074	450.9	1091	470.6	1108	490.5	1149	541.8								
76000	5426	1063	439.4	1079	459.4	1096	479.2	1112	499.2	1128	519.6	1168	571.7								
78000	5569	1085	468.6	1101	488.7	1117	508.9	1133	529.5	1149	550.2	1188	602.8								
80000	5712	1108	499.0	1124	519.4	1139	540.1	1155	561.1	1170	581.9										
85000	6069	1166	581.2	1180	603.1																

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 = 88.75 in.
 Outlet Area = 17.12 sq. ft. inside
 Maximum BHP = 640 x (RPM/1000)³
 Tip Speed, fpm = 23.2 x RPM

Size

8075 sisw

Model 45 Maximum RPM 1075
 Maximum Belt Drive Motor HP 350

Design 4170 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP		45"SP	
CFM	FPM	RPM	BHP																		
42000	2451	596	111.3	627	125.3	658	140.0	689	155.2	718	170.7	786	211.4								
44000	2567	606	119.5	636	133.9	666	148.7	696	164.2	724	180.1	792	221.6								
46000	2684	617	128.3	646	143.0	675	158.1	703	173.8	731	189.9	798	232.4	859	276.8						
48000	2801	629	137.6	657	152.7	684	168.2	712	184.1	739	200.4	804	243.7	865	289.1						
50000	2918	641	147.2	668	162.9	695	178.9	721	195.0	747	211.6	811	255.6	871	301.9	927	349.6				
52000	3034	653	157.5	679	173.8	705	190.2	730	206.7	756	223.6	818	268.1	877	315.0	933	364.0	985	414.2		
54000	3151	665	168.3	691	185.1	716	202.0	741	219.0	765	236.3	825	281.2	883	328.8	939	378.9	990	429.8		
56000	3268	679	179.8	703	197.0	728	214.5	752	232.1	775	249.8	833	295.2	890	343.4	945	394.0	996	446.3	1045	500.4
58000	3384	692	191.8	716	209.6	740	227.6	763	245.6	786	263.7	842	310.0	897	358.8	951	409.9	1003	463.6	1050	517.6
60000	3501	705	204.7	729	222.8	752	241.2	775	259.7	797	278.4	852	325.9	905	375.2	958	426.8	1008	480.7	1056	536.0
62000	3618	719	218.1	742	236.6	765	255.6	787	274.8	809	294.0	861	342.1	913	392.0	965	444.6	1014	498.8	1062	555.4
64000	3734	734	232.4	756	251.3	777	270.5	799	290.1	820	309.8	872	359.3	922	409.9	972	462.7	1021	518.0	1068	575.1
66000	3851	748	247.3	769	266.5	791	286.3	812	306.3	832	326.5	883	377.5	932	428.9	980	482.0	1028	537.9	1074	595.3
68000	3968	763	263.3	783	282.8	804	302.8	825	323.2	845	343.9	894	395.9	942	448.5	989	502.7	1035	558.4		
70000	4085	778	279.8	798	299.7	818	320.1	838	340.9	857	362.0	906	415.4	952	469.0	998	523.6	1043	580.3		
72000	4201	793	297.3	812	317.5	832	338.2	851	359.4	870	380.9	917	435.4	963	490.5	1007	545.9	1051	603.0		
74000	4318	808	315.7	827	336.3	846	357.4	865	378.8	884	400.6	929	456.3	974	512.4	1018	569.1	1060	626.7		
76000	4435	823	334.9	842	355.8	860	377.2	879	399.0	897	421.2	942	477.9	986	535.7	1028	593.0	1070	651.8		
78000	4551	839	355.2	857	376.5	875	398.2	893	420.4	911	442.8	954	500.5	997	559.0	1039	618.2				
80000	4668	855	376.3	872	398.0	890	419.9	907	442.3	925	465.1	967	523.7	1009	583.9	1050	643.6				
85000	4960	895	433.3	911	456.0	928	478.9	944	502.0	960	525.5	1000	586.2	1040	648.9						
90000	5252	936	496.6	951	520.1	967	544.1	982	568.3	997	592.5	1035	655.0	1072	719.8						
95000	5543	978	566.8	992	591.4	1006	616.0	1021	641.0	1035	666.5	1071	730.5								
100000	5835	1020	643.9	1033	669.5	1047	695.5	1061	721.1	1074	747.2										
105000	6127	1062	728.7																		

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.

Wheel Diameter = 27.00 in.
 Outlet Area = 1.57 sq. ft. inside
 Maximum BHP = 1.71 x (RPM/1000)³
 Tip Speed, fpm = 7.07 x RPM

Model 40 Maximum RPM 3402
 Maximum Belt Drive Motor HP 75

Size

2450 SISW

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP																		
5800	3700	2027	13.6	2129	15.4	2231	17.3	2333	19.3	2429	21.4	2521	23.4	2732	28.5	2927	33.7	3115	39.3		
6000	3827	2062	14.5	2160	16.3	2259	18.2	2357	20.2	2453	22.3	2545	24.4	2755	29.6	2948	35.0	3131	40.5		
6200	3955	2098	15.3	2192	17.2	2288	19.1	2383	21.1	2477	23.3	2569	25.4	2778	30.8	2968	36.2	3150	41.9	3323	47.8
6400	4082	2135	16.3	2226	18.1	2318	20.1	2410	22.1	2502	24.3	2592	26.5	2802	32.0	2990	37.6	3168	43.2	3339	49.2
6600	4210	2173	17.2	2261	19.1	2349	21.1	2439	23.2	2528	25.3	2616	27.5	2826	33.3	3014	39.0	3188	44.7	3356	50.7
6800	4338	2213	18.2	2297	20.2	2383	22.2	2469	24.2	2555	26.4	2642	28.7	2848	34.5	3036	40.4	3211	46.3	3374	52.3
7000	4465	2253	19.3	2334	21.3	2416	23.3	2500	25.4	2584	27.6	2668	29.8	2872	35.8	3060	41.8	3232	47.8	3395	54.0
7200	4593	2293	20.4	2372	22.4	2452	24.5	2532	26.6	2613	28.8	2695	31.1	2896	37.1	3084	43.3	3256	49.5		
7400	4720	2335	21.6	2411	23.6	2488	25.7	2566	27.8	2645	30.1	2724	32.4	2920	38.4	3106	44.8	3278	51.1		
7600	4848	2377	22.8	2451	24.9	2525	27.0	2601	29.1	2677	31.4	2753	33.7	2945	39.9	3131	46.4	3302	52.8		
7800	4975	2420	24.1	2491	26.2	2563	28.3	2636	30.5	2710	32.8	2785	35.1	2971	41.3	3153	47.9	3325	54.5		
8000	5103	2463	25.5	2533	27.6	2602	29.7	2673	32.0	2744	34.2	2816	36.6	2998	42.8	3178	49.5	3348	56.3		
8200	5231	2507	26.9	2574	29.0	2642	31.2	2711	33.5	2780	35.8	2850	38.2	3026	44.4	3202	51.1	3372	58.1		
8400	5358	2551	28.3	2617	30.5	2682	32.8	2749	35.0	2816	37.4	2884	39.7	3055	46.0	3227	52.8	3394	59.8		
8600	5486	2596	29.9	2660	32.1	2724	34.4	2788	36.7	2853	39.0	2919	41.4	3085	47.8	3253	54.5				
8800	5613	2640	31.4	2703	33.7	2765	36.0	2828	38.4	2891	40.7	2955	43.2	3117	49.6	3280	56.3				
9000	5741	2685	33.1	2746	35.4	2807	37.7	2868	40.1	2930	42.5	2992	45.0	3149	51.4	3308	58.2				
9200	5868	2731	34.8	2790	37.2	2850	39.5	2909	41.9	2969	44.4	3029	46.9	3182	53.4	3337	60.2				
9400	5996	2777	36.6	2835	39.0	2893	41.4	2951	43.8	3009	46.3	3067	48.8	3216	55.3	3367	62.2				
9600	6124	2823	38.4	2880	40.9	2936	43.3	2993	45.8	3050	48.3	3107	50.8	3251	57.4	3398	64.4				
9800	6251	2869	40.3	2925	42.8	2980	45.3	3035	47.8	3091	50.4	3146	52.9	3287	59.6						
10000	6379	2915	42.3	2970	44.8	3024	47.4	3079	49.9	3132	52.5	3186	55.1	3323	61.8						
10500	6698	3033	47.6	3085	50.2	3136	52.8	3187	55.5	3238	58.2	3289	60.9								
11000	7017	3151	53.2	3201	56.0	3250	58.8	3299	61.6	3347	64.3	3395	67.1								
11500	7336	3271	59.5	3319	62.4	3365	65.2														

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 = 29.75 in.
 Outlet Area = 1.91 sq. ft. inside
 Maximum BHP = 2.78 x (RPM/1000)³
 Tip Speed, fpm = 7.79 x RPM

Model 40 Maximum RPM 3087
 Maximum Belt Drive Motor HP 100

Size

2700 SISW

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP																		
4800	2521	1610	9.7	1722	11.4	1827	13.2	1931	15.1												
5000	2626	1628	10.2	1739	12.0	1843	13.8	1943	15.7	2040	17.7										
5200	2731	1645	10.7	1757	12.5	1860	14.4	1957	16.3	2052	18.3	2145	20.4								
5400	2836	1663	11.2	1774	13.1	1876	15.0	1972	17.0	2066	19.0	2156	21.1								
5600	2941	1681	11.8	1792	13.7	1894	15.7	1989	17.7	2081	19.8	2169	21.9								
5800	3046	1700	12.3	1810	14.4	1912	16.4	2007	18.5	2096	20.5	2182	22.6								
6000	3151	1720	12.9	1828	15.0	1930	17.1	2024	19.2	2113	21.3	2198	23.5	2403	29.2						
6200	3256	1741	13.5	1846	15.6	1947	17.8	2042	20.0	2131	22.2	2215	24.4	2415	30.1						
6400	3361	1763	14.2	1865	16.3	1965	18.5	2060	20.8	2147	23.0	2231	25.3	2429	31.1	2616	37.4				
6600	3466	1785	14.9	1885	17.0	1983	19.3	2077	21.6	2165	23.9	2249	26.2	2444	32.1	2628	38.4				
6800	3571	1809	15.6	1905	17.8	2001	20.1	2094	22.4	2184	24.8	2266	27.2	2459	33.2	2640	39.5				
7000	3677	1834	16.4	1927	18.6	2020	20.9	2113	23.3	2200	25.7	2284	28.2	2476	34.3	2654	40.7	2824	47.4		
7200	3782	1860	17.2	1950	19.4	2041	21.7	2131	24.2	2218	26.7	2302	29.2	2492	35.4	2668	41.9	2837	48.7		
7400	3887	1886	18.1	1974	20.3	2062	22.6	2150	25.1	2236	27.6	2319	30.2	2510	36.6	2683	43.1	2848	50.0		
7600	3992	1913	18.9	1998	21.2	2084	23.5	2169	26.0	2254	28.6	2337	31.2	2527	37.8	2700	44.5	2862	51.3	3020	58.6
8000	4202	1970	20.8	2049	23.1	2130	25.5	2211	28.0	2292	30.6	2372	33.4	2563	40.3	2734	47.2	2892	54.2	3044	61.5
8400	4412	2029	22.9	2104	25.2	2180	27.7	2257	30.2	2333	32.9	2410	35.6	2598	42.8	2769	50.1	2924	57.3	3073	64.7
8800	4622	2090	25.1	2160	27.5	2232	30.0	2305	32.6	2378	35.3	2451	38.1	2633	45.5	2803	53.0	2958	60.5		
9200	4832	2152	27.6	2219	30.0	2287	32.6	2356	35.2	2425	37.9	2495	40.7	2670	48.2	2838	56.0	2993	63.9		
9600	5042	2216	30.2	2280	32.7	2344	35.3	2409	38.0	2475	40.7	2542	43.6	2709	51.1	2873	59.1	3029	67.4		
10000	5252	2281	32.9	2342	35.6	2404	38.2	2465	41.0	2528	43.8	2591	46.7	2750	54.3	2909	62.4	3064	70.9		
11000	5777	2448	40.8	2503	43.6	2558	46.4	2613	49.3	2669	52.3	2724	55.3	2866	63.1	3009	71.4				
12000	6303	2620	49.9	2670	53.0	2720	56.0	2770	59.1	2820	62.2	2870	65.3	2996	73.4						
13000	6828	2796	60.5	2842	63.8	2888	67.0	2933	70.3	2979	73.6	3023	76.9								
14000	7353	2974	72.6	3017	76.2	3059	79.6														

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.



Wheel Diameter = 33.00 in.
 Outlet Area = 2.35 sq. ft. inside
 Maximum BHP = 4.70 x (RPM/1000)³
 Tip Speed, fpm = 8.64 x RPM

Size

3000 sisw

Model 40 Maximum RPM 2778
 Maximum Belt Drive Motor HP 125

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP																		
5800	2467	1441	11.6	1542	13.7	1639	15.9	1732	18.2												
6000	2553	1454	12.1	1554	14.3	1649	16.5	1740	18.8												
6200	2638	1467	12.6	1567	14.8	1660	17.1	1750	19.4	1837	21.9										
6400	2723	1479	13.1	1580	15.4	1673	17.7	1760	20.1	1846	22.5										
6600	2808	1493	13.7	1593	16.0	1684	18.3	1772	20.7	1856	23.2	1938	25.8								
6800	2893	1506	14.2	1606	16.6	1697	19.0	1783	21.4	1866	23.9	1946	26.5								
7000	2978	1519	14.7	1618	17.2	1710	19.7	1795	22.2	1877	24.7	1957	27.3								
7200	3063	1533	15.3	1632	17.8	1723	20.4	1809	22.9	1889	25.5	1966	28.1	2154	35.2						
7400	3148	1547	15.9	1644	18.5	1737	21.1	1821	23.7	1901	26.3	1978	29.0	2162	36.1						
7600	3233	1562	16.5	1658	19.1	1749	21.8	1834	24.5	1914	27.2	1990	29.9	2171	36.9						
7800	3318	1578	17.2	1671	19.8	1762	22.5	1847	25.3	1926	28.0	2002	30.8	2181	37.9						
8000	3403	1594	17.9	1685	20.5	1775	23.3	1860	26.1	1940	28.9	2015	31.7	2191	38.9	2358	46.6				
8200	3488	1611	18.6	1700	21.2	1788	24.0	1872	26.9	1952	29.8	2027	32.6	2203	40.0	2368	47.7				
8400	3574	1629	19.3	1715	22.0	1802	24.8	1885	27.7	1966	30.7	2040	33.6	2213	41.0	2376	48.8				
8800	3744	1665	20.9	1747	23.6	1830	26.4	1912	29.4	1991	32.5	2066	35.6	2237	43.2	2396	51.1	2549	59.6		
9200	3914	1704	22.6	1782	25.3	1861	28.2	1939	31.2	2017	34.4	2091	37.6	2262	45.6	2418	53.7	2567	62.1	2710	71.0
9600	4084	1744	24.4	1818	27.2	1893	30.1	1969	33.2	2044	36.4	2117	39.7	2288	48.0	2442	56.3	2587	64.9	2727	73.8
10000	4254	1786	26.3	1857	29.2	1928	32.2	2000	35.3	2072	38.5	2143	41.9	2314	50.5	2468	59.1	2609	67.8	2746	76.9
11000	4680	1896	31.9	1959	34.8	2022	37.9	2087	41.1	2152	44.5	2217	47.9	2378	57.0	2531	66.5	2671	75.8		
12000	5105	2012	38.2	2069	41.4	2126	44.6	2183	48.0	2242	51.4	2300	54.9	2449	64.2	2595	74.2	2734	84.4		
13000	5531	2132	45.6	2185	49.0	2236	52.4	2288	55.9	2341	59.4	2394	63.0	2529	72.6	2665	82.7				
14000	5956	2256	54.0	2304	57.6	2352	61.2	2399	64.8	2447	68.5	2495	72.3	2618	82.0	2742	92.3				
15000	6381	2382	63.4	2426	67.3	2471	71.1	2515	75.0	2559	78.8	2603	82.7	2714	92.7						
16000	6807	2510	74.1	2551	78.2	2593	82.2	2634	86.2	2675	90.3	2715	94.4								
17000	7232	2640	86.0	2679	90.3	2718	94.6	2756	98.8												

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 = 36.25 in.
 Outlet Area = 2.86 sq. ft. inside
 Maximum BHP = 8.07 x (RPM/1000)³
 Tip Speed, fpm = 9.49 x RPM

Size

3300 sisw

Model 40 Maximum RPM 2525
 Maximum Belt Drive Motor HP 125

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP																		
7000	2450	1296	14.0	1391	16.6	1480	19.4	1565	22.2												
7200	2520	1305	14.4	1398	17.1	1487	19.9	1571	22.8												
7400	2590	1314	14.9	1407	17.6	1494	20.5	1579	23.4	1657	26.3										
7600	2660	1324	15.4	1415	18.2	1502	21.1	1585	24.0	1664	27.0										
7800	2730	1335	15.9	1424	18.7	1510	21.6	1593	24.6	1671	27.7	1745	30.8								
8000	2800	1345	16.5	1433	19.3	1518	22.2	1599	25.3	1677	28.4	1752	31.5								
8500	2975	1374	17.9	1458	20.8	1540	23.8	1619	26.9	1695	30.1	1769	33.4								
9000	3150	1404	19.5	1485	22.4	1564	25.5	1640	28.7	1715	32.0	1787	35.4	1956	44.1						
9500	3325	1435	21.3	1514	24.2	1590	27.3	1664	30.6	1736	34.0	1806	37.5	1973	46.5						
10000	3500	1468	23.2	1544	26.2	1618	29.4	1690	32.6	1760	36.1	1828	39.7	1990	49.0	2142	58.6				
10500	3675	1503	25.3	1576	28.3	1648	31.6	1717	34.9	1785	38.4	1851	42.0	2009	51.5	2159	61.4	2300	71.7		
11000	3850	1539	27.5	1609	30.6	1679	33.9	1746	37.3	1812	40.8	1876	44.5	2030	54.2	2177	64.4	2316	74.9		
11500	4025	1577	29.8	1644	33.1	1711	36.5	1776	39.9	1840	43.5	1903	47.2	2052	57.0	2196	67.4	2333	78.2	2461	89.2
12000	4200	1616	32.3	1680	35.8	1744	39.2	1808	42.7	1870	46.4	1931	50.1	2076	60.0	2216	70.6	2351	81.6	2478	93.0
12500	4375	1657	35.0	1718	38.6	1779	42.1	1841	45.7	1901	49.4	1960	53.2	2102	63.2	2238	73.9	2369	85.2	2496	96.8
13000	4550	1699	37.8	1757	41.5	1816	45.2	1875	48.9	1933	52.7	1990	56.5	2129	66.7	2262	77.5	2390	88.8	2514	100.8
13500	4725	1742	40.8	1797	44.6	1853	48.5	1910	52.3	1966	56.1	2022	60.1	2158	70.3	2287	81.3	2412	92.7		
14000	4900	1786	44.0	1839	47.9	1892	51.9	1946	55.8	2001	59.8	2055	63.8	2187	74.2	2313	85.2	2435	96.9		
14500	5075	1830	47.4	1881	51.4	1932	55.5	1984	59.6	2036	63.7	2089	67.8	2217	78.3	2340	89.4	2460	101.2		
15000	5250	1875	51.0	1924	55.1	1973	59.3	2023	63.5	2073	67.7	2123	71.9	2248	82.7	2369	93.9	2485	105.7		
16000	5600	1967	58.9	2013	63.2	2058	67.5	2104	72.0	2150	76.4	2197	80.9	2314	92.1	2429	103.6				
17000	5950	2062	67.7	2104	72.2	2146	76.7	2189	81.3	2232	86.0	2275	90.7	2384	102.5	2493	114.4				
18000	6300	2157	77.6	2197	82.1	2237	86.8	2277	91.6	2316	96.5	2356	101.4	2457	113.8						
19000	6650	2254	88.5	2292	93.1	2329	98.0	2366	102.9	2404	108.0	2441	113.1								
20000	7000	2352	100.4	2388	105.3	2423	110.3	2458	115.3	2493	120.5										

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 = 40.125 in.
 Outlet Area = 3.49 sq. ft. inside
 Maximum BHP = 13.4 x (RPM/1000)³
 Tip Speed, fpm = 10.5 x RPM

Model 40 Maximum RPM 2283
 Maximum Belt Drive Motor HP 150

Size

3650 SISW

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP																		
8500	2432	1169	17.0	1255	20.2	1337	23.6	1413	26.9												
9000	2575	1187	18.1	1270	21.5	1350	24.9	1426	28.4	1497	32.0										
9500	2718	1205	19.4	1286	22.8	1364	26.3	1439	30.0	1509	33.7	1577	37.5								
10000	2861	1225	20.8	1303	24.2	1379	27.8	1452	31.6	1522	35.5	1589	39.4								
10500	3004	1246	22.3	1322	25.7	1395	29.4	1467	33.3	1536	37.2	1602	41.3								
11000	3147	1268	23.9	1342	27.4	1413	31.1	1483	35.0	1550	39.1	1615	43.3	1768	54.0						
11500	3290	1292	25.6	1364	29.2	1433	33.0	1500	36.9	1566	41.1	1629	45.3	1781	56.4						
12000	3433	1316	27.5	1386	31.1	1453	34.9	1519	39.0	1582	43.1	1645	47.5	1794	58.8	1932	70.4				
12500	3576	1341	29.5	1409	33.2	1474	37.1	1539	41.1	1600	45.3	1661	49.7	1808	61.3	1945	73.3				
13000	3719	1367	31.6	1433	35.4	1497	39.3	1559	43.4	1619	47.7	1679	52.1	1822	63.8	1957	76.1	2083	88.6		
13500	3862	1394	33.8	1457	37.7	1520	41.7	1580	45.9	1640	50.2	1698	54.7	1837	66.5	1969	79.0	2095	92.0	2212	104.9
14000	4005	1422	36.2	1483	40.2	1544	44.3	1603	48.5	1661	52.9	1717	57.4	1853	69.3	1983	82.0	2107	95.2	2224	108.6
14500	4148	1451	38.6	1509	42.8	1568	46.9	1626	51.3	1683	55.7	1738	60.2	1871	72.3	1999	85.2	2120	98.6	2237	112.5
15000	4291	1481	41.2	1537	45.5	1594	49.8	1650	54.2	1705	58.6	1759	63.3	1890	75.5	2015	88.5	2134	102.1	2248	116.1
15500	4434	1511	43.9	1565	48.4	1620	52.8	1674	57.2	1728	61.8	1781	66.5	1909	78.8	2031	91.9	2149	105.8	2261	120.0
16000	4577	1542	46.9	1594	51.4	1647	55.9	1700	60.5	1752	65.1	1804	69.8	1929	82.2	2048	95.5	2164	109.4	2275	124.0
16500	4720	1574	49.8	1624	54.5	1675	59.2	1726	63.8	1777	68.6	1827	73.4	1950	86.0	2067	99.3	2180	113.3		
17000	4864	1606	53.0	1654	57.8	1703	62.6	1753	67.4	1802	72.2	1852	77.1	1971	89.7	2086	103.2	2197	117.5		
18000	5150	1672	59.9	1717	64.8	1763	69.9	1809	74.9	1855	80.0	1902	85.1	2017	98.1	2127	111.7	2234	126.1		
19000	5436	1740	67.4	1782	72.6	1825	77.8	1868	83.1	1911	88.4	1955	93.7	2064	107.2	2171	121.1	2273	135.6		
20000	5722	1808	75.7	1848	81.0	1889	86.4	1929	91.9	1969	97.5	2010	103.1	2114	117.0	2216	131.2				
21000	6008	1878	84.8	1916	90.2	1954	95.8	1992	101.5	2030	107.3	2069	113.1	2166	127.6	2264	142.2				
22000	6294	1949	94.7	1985	100.3	2021	106.0	2057	111.9	2093	117.8	2129	123.8	2221	138.9						
23000	6580	2021	105.5	2055	111.2	2089	117.0	2123	123.0	2157	129.2	2191	135.4	2278	151.0						
24000	6866	2093	117.1	2126	123.0	2158	129.0	2191	135.2	2223	141.4	2255	147.8								

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 = 44.25 in.
 Outlet Area = 4.22 sq. ft. inside
 Maximum BHP = 21.8 x (RPM/1000)³
 Tip Speed, fpm = 11.6 x RPM

Model 40 Maximum RPM 2071
 Maximum Belt Drive Motor HP 200

Size

4025 SISW

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP																		
10500	2470	1065	21.0	1142	25.0	1215	29.1	1285	33.3												
11000	2588	1077	22.2	1153	26.2	1225	30.4	1294	34.8	1359	39.1										
11500	2706	1091	23.5	1165	27.6	1235	31.8	1303	36.3	1368	40.8										
12000	2823	1106	24.8	1178	29.0	1247	33.3	1313	37.9	1377	42.5	1438	47.3								
12500	2941	1122	26.3	1191	30.5	1259	34.9	1324	39.5	1387	44.3	1447	49.2								
13000	3058	1138	27.8	1206	32.1	1272	36.6	1335	41.2	1397	46.1	1458	51.2	1597	63.8						
13500	3176	1154	29.4	1221	33.7	1285	38.3	1348	43.1	1409	48.1	1467	53.1	1606	66.2						
14000	3294	1172	31.2	1237	35.6	1300	40.1	1361	45.0	1420	50.0	1478	55.2	1615	68.6						
14500	3411	1190	33.1	1254	37.5	1315	42.1	1375	47.0	1432	52.0	1489	57.3	1625	71.1	1751	85.2				
15000	3529	1208	35.0	1270	39.5	1331	44.2	1389	49.1	1446	54.2	1501	59.6	1635	73.5	1759	87.9				
15500	3647	1227	37.1	1288	41.6	1347	46.4	1404	51.3	1460	56.5	1514	61.9	1645	76.0	1768	90.7	1883	105.8		
16000	3764	1247	39.2	1306	43.9	1364	48.7	1420	53.7	1474	58.9	1528	64.3	1656	78.7	1778	93.7	1892	109.0		
16500	3882	1267	41.5	1325	46.2	1381	51.2	1436	56.2	1489	61.5	1542	66.9	1668	81.3	1788	96.6	1902	112.4	2007	128.2
17000	3999	1288	43.8	1344	48.7	1399	53.7	1453	58.8	1506	64.2	1557	69.7	1680	84.1	1798	99.6	1910	115.6	2016	131.9
17500	4117	1310	46.3	1363	51.3	1417	56.4	1470	61.6	1521	66.9	1572	72.5	1693	87.2	1810	102.8	1920	119.0	2026	135.7
18000	4235	1332	48.9	1384	54.0	1436	59.2	1487	64.4	1538	69.8	1588	75.5	1707	90.2	1821	105.9	1931	122.5	2034	139.4
19000	4470	1377	54.3	1426	59.7	1475	65.1	1524	70.6	1573	76.1	1620	81.8	1736	96.8	1846	112.8	1952	129.7	2054	147.1
20000	4705	1424	60.2	1470	65.9	1516	71.5	1562	77.2	1609	82.9	1655	88.8	1766	104.0	1873	120.3	1975	137.3		
21000	4941	1473	66.7	1515	72.5	1559	78.4	1603	84.3	1647	90.3	1691	96.3	1799	111.8	1902	128.3	2001	145.5		
22000	5176	1522	73.6	1563	79.6	1604	85.8	1645	92.0	1687	98.2	1729	104.4	1833	120.2	1933	136.9	2029	154.4		
23000	5411	1572	81.2	1611	87.4	1650	93.8	1689	100.2	1729	106.6	1768	113.1	1868	129.3	1965	146.2	2058	163.9		
24000	5646	1623	89.3	1660	95.7	1697	102.2	1734	108.9	1772	115.5	1809	122.2	1905	139.0	1998	156.2				
26000	6117	1727	107.5	1761	114.2	1795	121.1	1829	128.1	1863	135.3	1897	142.4	1983	160.3	2069	178.3				
28000	6587	1834	128.6	1865	135.5	1896	142.7	1927	150.0	1958	157.5	1989	165.0	2067	184.1						
30000	7058	1942	152.6	1971	159.8	2000	167.2	2028	174.8	2057	182.6										

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.



Wheel Diameter = 49.00 in.
 Outlet Area = 5.16 sq. ft. inside
 Maximum BHP = 36.0 x (RPM/1000)³
 Tip Speed, fpm = 12.8 x RPM

Size

4450 sisw

Model 40 Maximum RPM 1873
 Maximum Belt Drive Motor HP 250

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP																		
13000	2502	966	26.0	1035	30.9	1101	36.0	1164	41.1												
13500	2598	976	27.2	1044	32.2	1109	37.3	1171	42.7	1230	48.0										
14000	2695	986	28.5	1053	33.5	1117	38.8	1178	44.2	1236	49.7										
14500	2791	997	29.8	1062	34.9	1125	40.3	1185	45.8	1243	51.4	1299	57.2								
15000	2887	1008	31.3	1072	36.4	1133	41.8	1193	47.4	1251	53.2	1306	59.1								
15500	2983	1020	32.8	1082	37.9	1143	43.4	1202	49.1	1258	55.0	1312	61.0								
16000	3080	1032	34.3	1093	39.6	1152	45.1	1210	50.8	1266	56.8	1320	62.9	1446	78.6						
16500	3176	1044	36.0	1104	41.2	1163	46.8	1219	52.6	1274	58.7	1327	64.9	1452	80.9						
17000	3272	1057	37.7	1116	43.1	1173	48.6	1229	54.6	1282	60.6	1335	67.0	1460	83.4						
18000	3464	1084	41.5	1141	46.9	1196	52.6	1249	58.6	1301	64.8	1352	71.3	1473	88.1	1586	105.5				
19000	3657	1112	45.5	1166	51.1	1220	57.0	1271	63.0	1322	69.4	1371	75.9	1489	93.1	1600	111.2	1704	129.6		
20000	3849	1141	49.9	1193	55.7	1245	61.7	1295	67.8	1343	74.3	1391	81.0	1505	98.5	1614	117.0	1718	136.2		
21000	4042	1172	54.7	1222	60.7	1271	66.8	1319	73.1	1367	79.6	1413	86.4	1524	104.1	1630	123.1	1732	142.9	1826	162.8
22000	4234	1205	59.7	1251	66.0	1299	72.3	1345	78.7	1391	85.4	1436	92.2	1543	110.2	1647	129.5	1746	149.8	1840	170.3
23000	4427	1238	65.1	1283	71.7	1327	78.2	1372	84.8	1417	91.6	1460	98.6	1565	116.8	1665	136.3	1762	156.9	1854	178.0
24000	4619	1273	70.9	1315	77.7	1357	84.5	1400	91.3	1443	98.3	1485	105.3	1587	123.8	1684	143.5	1779	164.4	1869	186.0
25000	4812	1308	77.1	1348	84.1	1389	91.2	1430	98.3	1471	105.4	1511	112.6	1610	131.3	1705	151.2	1797	172.3		
26000	5004	1344	83.7	1382	91.0	1421	98.2	1460	105.6	1499	112.9	1538	120.3	1635	139.3	1727	159.5	1816	180.7		
27000	5197	1381	90.8	1417	98.2	1454	105.7	1491	113.3	1529	120.9	1567	128.5	1661	147.9	1751	168.3	1837	189.7		
28000	5389	1418	98.3	1453	105.9	1488	113.7	1524	121.5	1560	129.3	1596	137.2	1686	157.0	1774	177.6	1859	199.2		
29000	5582	1455	106.3	1489	114.1	1523	122.0	1557	130.1	1592	138.1	1626	146.2	1713	166.5	1799	187.4				
30000	5774	1494	114.9	1526	122.8	1559	130.9	1592	139.2	1624	147.6	1658	155.8	1741	176.7	1825	197.9				
32000	6159	1571	133.6	1601	141.8	1632	150.2	1662	158.9	1692	167.7	1723	176.4	1800	198.4						
34000	6544	1650	154.7	1678	163.1	1706	171.8	1734	180.7	1763	189.8	1791	199.1	1862	222.2						
36000	6929	1730	178.1	1756	186.8	1783	195.9	1809	205.0	1835	214.4	1862	224.0								

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 = 54.00 in.
 Outlet Area = 6.27 sq. ft. inside
 Maximum BHP = 58.2 x (RPM/1000)³
 Tip Speed, fpm = 14.1 x RPM

Size

4900 sisw

Model 40 Maximum RPM 1701
 Maximum Belt Drive Motor HP 300

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP																		
15500	2461	874	31.0	937	36.9	998	42.9	1055	49.1												
16000	2540	880	32.1	943	38.1	1003	44.3	1059	50.6												
16500	2619	888	33.4	949	39.4	1008	45.6	1065	52.1	1118	58.7										
17000	2699	896	34.7	956	40.7	1014	47.1	1070	53.7	1123	60.3										
17500	2778	904	36.0	963	42.1	1021	48.6	1075	55.2	1128	62.1	1179	69.1								
18000	2857	912	37.4	971	43.5	1027	50.1	1082	56.9	1134	63.8	1183	70.9								
19000	3016	930	40.4	986	46.6	1041	53.3	1094	60.2	1145	67.4	1194	74.7								
20000	3175	948	43.6	1003	50.0	1056	56.7	1107	63.8	1157	71.2	1205	78.7	1319	98.1						
21000	3334	967	47.1	1021	53.6	1072	60.5	1121	67.6	1170	75.1	1217	82.9	1329	102.8	1432	123.3				
22000	3492	988	51.0	1039	57.6	1089	64.5	1137	71.8	1184	79.4	1230	87.2	1340	107.7	1442	128.9				
23000	3651	1009	55.1	1059	61.8	1107	68.9	1154	76.2	1200	83.9	1244	91.9	1352	112.7	1453	134.6	1547	156.9		
24000	3810	1031	59.4	1079	66.4	1126	73.5	1171	81.0	1216	88.8	1259	96.8	1364	118.0	1463	140.4	1557	163.4		
25000	3969	1054	64.0	1100	71.3	1145	78.5	1190	86.1	1233	94.0	1275	102.1	1377	123.6	1475	146.5	1567	170.0	1655	194.2
26000	4127	1077	68.9	1121	76.4	1165	83.9	1209	91.6	1251	99.5	1292	107.8	1392	129.5	1487	152.8	1578	176.8	1665	201.6
27000	4286	1102	74.1	1144	81.8	1186	89.6	1228	97.4	1269	105.5	1310	113.8	1407	135.8	1500	159.3	1589	183.8	1674	209.1
28000	4445	1127	79.6	1167	87.6	1208	95.5	1249	103.6	1289	111.8	1328	120.2	1423	142.4	1514	166.0	1602	191.1	1685	216.7
29000	4604	1153	85.4	1191	93.6	1230	101.8	1270	110.1	1309	118.5	1347	127.0	1440	149.4	1528	173.2	1614	198.5	1697	224.7
30000	4762	1179	91.5	1216	99.9	1254	108.5	1291	116.9	1329	125.5	1366	134.1	1457	156.8	1544	180.9	1627	206.3		
32000	5080	1233	104.8	1268	113.6	1302	122.7	1337	131.7	1372	140.7	1407	149.7	1494	172.9	1577	197.4	1657	223.4		
34000	5397	1289	119.6	1321	128.9	1353	138.3	1385	147.8	1418	157.3	1451	166.8	1533	190.8	1612	215.8	1689	242.0		
36000	5715	1346	136.0	1376	145.6	1406	155.3	1436	165.3	1466	175.3	1497	185.4	1574	210.4	1650	236.0				
38000	6032	1403	154.2	1432	164.0	1460	174.1	1488	184.4	1516	194.9	1545	205.4	1617	231.7	1689	258.1				
40000	6350	1462	174.3	1489	184.4	1515	194.8	1542	205.4	1568	216.2	1595	227.1	1662	254.6						
42000	6667	1521	196.3	1547	206.6	1572	217.3	1597	228.3	1622	239.4	1647	250.6								
44000	6985	1581	220.3	1605	231.0	1629	241.9	1653	253.1	1676	264.5	1700	276.3								

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.



Wheel Diameter = 59.75 in.
 Outlet Area = 7.71 sq. ft. inside
 Maximum BHP = 96.9 x (RPM/1000)³
 Tip Speed, fpm = 15.6 x RPM

Model 40 Maximum RPM 1536
 Maximum Belt Drive Motor HP 350

Size

5425 SISW

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BH																
20000	2590	800	40.3	856	47.7	909	55.3	960	63.2	1008	71.1										
21000	2720	811	42.9	865	50.3	918	58.2	968	66.3	1016	74.5	1061	82.8								
22000	2849	823	45.6	876	53.2	927	61.2	976	69.5	1023	78.0	1068	86.6								
23000	2979	836	48.6	887	56.3	937	64.3	985	72.9	1031	81.5	1076	90.4								
24000	3108	849	51.8	900	59.5	948	67.7	995	76.3	1040	85.2	1084	94.4	1188	117.9						
25000	3238	863	55.1	912	63.0	959	71.3	1005	80.0	1049	89.1	1093	98.4	1195	122.6						
26000	3367	878	58.8	925	66.7	971	75.2	1016	83.9	1059	93.1	1102	102.7	1203	127.3	1296	152.6				
27000	3497	893	62.6	939	70.7	984	79.3	1027	88.1	1070	97.4	1112	107.1	1211	132.2	1303	158.2				
28000	3626	908	66.7	953	74.9	997	83.6	1040	92.6	1081	102.0	1122	111.7	1219	137.2	1311	163.9	1396	191.0		
29000	3756	924	71.0	968	79.5	1011	88.1	1053	97.3	1093	106.7	1133	116.5	1228	142.6	1319	169.9	1403	197.5		
30000	3885	941	75.5	983	84.1	1025	93.0	1066	102.2	1105	111.8	1144	121.7	1238	147.9	1327	175.6	1411	204.3	1490	233.0
31000	4015	958	80.2	999	89.1	1040	98.2	1079	107.5	1118	117.2	1157	127.2	1248	153.5	1335	181.6	1418	210.9	1497	240.4
32000	4144	975	85.1	1015	94.3	1055	103.5	1094	113.1	1132	122.8	1169	132.9	1258	159.6	1344	188.0	1426	217.6	1505	248.3
33000	4274	994	90.4	1032	99.7	1070	109.3	1108	118.8	1145	128.7	1182	138.9	1270	165.8	1354	194.5	1435	224.7	1512	255.5
34000	4403	1012	95.7	1049	105.5	1086	115.1	1123	124.9	1160	135.0	1195	145.3	1281	172.3	1364	201.2	1443	231.8	1520	263.2
36000	4662	1050	107.4	1084	117.6	1119	127.7	1154	138.0	1189	148.3	1223	158.9	1306	186.4	1385	215.8	1463	247.0		
38000	4921	1090	120.1	1122	130.7	1154	141.4	1187	152.1	1220	162.9	1252	173.8	1333	201.9	1409	231.7	1483	263.1		
40000	5180	1130	134.0	1160	144.9	1190	156.1	1221	167.4	1252	178.6	1283	189.9	1360	218.7	1434	249.0	1505	280.7		
42000	5439	1171	149.1	1200	160.5	1228	172.1	1257	183.9	1286	195.6	1316	207.3	1389	237.0	1461	267.7	1530	299.8		
44000	5698	1213	165.6	1240	177.3	1267	189.3	1294	201.4	1322	213.7	1349	226.0	1419	256.6	1489	288.0				
46000	5957	1255	183.6	1281	195.6	1307	207.8	1333	220.3	1358	233.0	1385	245.7	1451	277.5	1517	309.8				
48000	6216	1298	203.0	1323	215.2	1347	227.8	1372	240.8	1397	253.8	1421	266.9	1484	299.9						
50000	6475	1342	224.0	1365	236.5	1389	249.4	1412	262.5	1435	275.9	1459	289.7	1518	323.7						
52000	6734	1386	246.6	1408	259.3	1430	272.5	1453	286.1	1475	299.7	1497	313.6								
54000	6993	1430	270.8	1451	283.9	1473	297.4	1494	311.0	1516	325.1										

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 = 66.00 in.
 Outlet Area = 9.43 sq. ft. inside
 Maximum BHP = 160 x (RPM/1000)³
 Tip Speed, fpm = 17.3 x RPM

Model 40 Maximum RPM 1389
 Maximum Belt Drive Motor HP 350

Size

6000 SISW

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP																		
23000	2435	712	45.9	764	54.6	814	63.7	860	72.8												
24000	2541	719	48.2	770	57.1	819	66.5	865	75.8												
25000	2647	727	50.7	777	59.7	825	69.2	871	78.9	915	88.9										
26000	2753	736	53.3	785	62.4	832	72.1	877	82.1	920	92.3	961	102.6								
27000	2859	745	56.1	793	65.3	839	75.1	883	85.4	926	95.7	967	106.3								
28000	2964	755	59.0	801	68.4	846	78.3	890	88.6	932	99.3	972	110.1								
29000	3070	764	62.1	810	71.6	854	81.6	897	92.1	938	102.9	978	114.1	1072	142.4						
30000	3176	774	65.4	819	75.0	862	85.1	904	95.7	945	106.8	984	118.1	1077	147.1						
31000	3282	785	68.9	829	78.6	871	88.8	912	99.5	952	110.6	991	122.1	1083	151.9						
32000	3388	796	72.6	839	82.4	880	92.7	920	103.5	959	114.7	998	126.4	1089	156.7	1173	187.9				
33000	3494	807	76.5	849	86.4	890	96.8	929	107.7	967	119.1	1005	130.9	1094	161.5	1178	193.4				
34000	3600	818	80.6	859	90.6	899	101.1	938	112.1	976	123.5	1012	135.4	1101	166.7	1184	199.2				
35000	3706	830	84.7	870	95.0	909	105.6	947	116.7	984	128.2	1020	140.2	1107	171.8	1189	204.9	1267	238.8		
36000	3811	842	89.2	881	99.6	919	110.4	957	121.5	993	133.3	1029	145.3	1114	177.1	1195	210.7	1272	245.1		
38000	4023	867	98.5	904	109.4	941	120.5	977	131.9	1012	143.7	1046	156.1	1129	188.3	1208	222.7	1283	258.5	1354	294.7
40000	4235	893	108.6	928	120.0	963	131.5	998	143.2	1032	155.2	1065	167.7	1145	200.5	1221	235.4	1295	272.3	1365	309.7
42000	4447	921	119.4	954	131.4	987	143.3	1020	155.4	1053	167.7	1085	180.4	1162	213.6	1236	249.1	1308	286.7	1376	325.1
44000	4658	949	131.1	980	143.6	1011	156.0	1043	168.5	1074	181.2	1106	194.1	1181	227.8	1252	263.7	1322	301.8	1389	341.1
46000	4870	978	143.7	1007	156.5	1037	169.5	1067	182.6	1097	195.7	1127	208.9	1200	243.0	1270	279.4	1337	318.0		
48000	5082	1008	157.2	1036	170.5	1064	184.1	1092	197.6	1121	211.1	1150	224.6	1220	259.4	1288	296.2	1353	335.1		
52000	5505	1068	187.4	1094	201.4	1119	215.7	1145	230.2	1171	244.7	1197	259.2	1263	295.8	1327	333.5	1389	373.0		
56000	5929	1131	222.1	1154	236.7	1178	251.7	1201	266.9	1225	282.3	1248	297.8	1309	336.6	1369	375.8				
60000	6352	1194	261.6	1216	276.8	1238	292.4	1259	308.3	1281	324.4	1303	340.8	1358	382.1						
64000	6776	1259	306.2	1279	321.9	1300	338.1	1320	354.7	1340	371.4	1360	388.5								
68000	7199	1325	356.5	1344	372.8	1363	389.3	1381	406.4												

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 = 72.50 in.
 Outlet Area = 11.40 sq. ft. inside
 Maximum BHP = 258 x (RPM/1000)³
 Tip Speed, fpm = 19.0 x RPM

Size

6600 sisw

Model 40 Maximum RPM 1263
 Maximum Belt Drive Motor HP 350

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP																		
28000	2450	648	55.9	695	66.6	740	77.5	782	88.6												
29000	2537	653	58.2	700	69.0	745	80.3	786	91.6												
30000	2625	660	60.7	705	71.6	749	83.0	791	94.8	831	106.7										
31000	2712	666	63.3	711	74.3	754	85.9	795	97.9	834	110.0	872	122.3								
32000	2800	673	65.9	717	77.1	759	88.9	800	101.0	839	113.5	876	126.1								
33000	2887	680	68.8	723	80.0	764	91.9	804	104.3	843	117.1	880	130.0								
34000	2975	687	71.8	729	83.1	770	95.1	810	107.7	848	120.5	884	133.7								
36000	3150	702	78.2	743	89.7	782	101.9	820	114.7	857	128.0	893	141.6	978	176.6						
38000	3325	717	85.2	757	96.9	795	109.4	832	122.3	868	135.9	903	149.9	986	186.1						
40000	3500	734	92.8	772	104.8	809	117.5	845	130.6	880	144.4	914	158.7	995	195.8	1071	234.4				
42000	3675	751	101.0	788	113.4	824	126.2	859	139.6	892	153.5	926	168.0	1005	206.0	1080	245.8	1150	286.7		
44000	3850	770	109.9	805	122.6	839	135.7	873	149.2	906	163.4	938	178.1	1015	216.6	1088	257.5	1158	299.7		
46000	4025	789	119.3	822	132.5	855	145.9	888	159.7	920	174.0	951	188.9	1026	227.9	1098	269.6	1166	313.0	1231	356.7
48000	4200	808	129.3	840	143.0	872	156.8	904	170.9	935	185.5	965	200.5	1038	240.0	1108	282.2	1175	326.5	1239	371.8
50000	4375	829	139.9	859	154.2	890	168.4	920	182.9	951	197.7	980	212.9	1051	252.9	1119	295.6	1185	340.6	1248	387.3
52000	4550	850	151.3	878	166.0	908	180.8	937	195.7	966	210.7	995	226.1	1065	266.7	1131	309.9	1195	355.4	1257	403.2
54000	4725	871	163.3	899	178.6	927	193.8	955	209.1	983	224.5	1011	240.2	1079	281.4	1144	325.1	1206	370.9		
56000	4900	893	176.2	919	191.7	946	207.5	973	223.4	1000	239.3	1027	255.3	1093	296.8	1157	340.9	1218	387.5		
58000	5075	915	189.7	941	205.8	966	222.2	992	238.4	1018	254.7	1044	271.1	1108	313.2	1170	357.7	1230	404.8		
60000	5250	938	204.1	962	220.5	987	237.2	1011	254.1	1037	270.9	1062	287.7	1124	330.7	1185	375.6	1243	422.9		
66000	5775	1007	252.8	1029	270.2	1051	288.1	1073	306.3	1095	324.6	1118	342.9	1174	388.8	1230	435.3				
70000	6125	1055	290.0	1075	308.0	1096	326.5	1116	345.4	1137	364.7	1158	383.9	1210	432.0	1263	480.4				
74000	6475	1103	331.5	1122	350.1	1141	369.0	1161	388.5	1180	408.4	1199	428.7	1248	479.1						
78000	6825	1152	377.2	1170	396.3	1188	415.9	1206	436.1	1224	456.4	1242	477.2								
82000	7175	1201	427.6	1218	447.4	1235	467.3	1252	487.9												

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 = 80.25 in.
 Outlet Area = 13.97 sq. ft. inside
 Maximum BHP = 427 x (RPM/1000)³
 Tip Speed, fpm = 21.0 x RPM

Size

7300 sisw

Model 40 Maximum RPM 1142
 Maximum Belt Drive Motor HP 350

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP																		
34000	2432	585	67.8	628	80.8	669	94.2	707	107.6												
36000	2575	593	72.5	635	85.8	675	99.6	713	113.8	749	128.0										
38000	2718	603	77.6	643	91.1	682	105.3	719	120.0	755	134.9	788	149.9								
40000	2861	613	83.1	652	96.8	689	111.2	726	126.4	761	141.8	795	157.5								
42000	3004	623	89.0	661	103.0	698	117.6	733	133.1	768	149.0	801	165.2								
44000	3147	634	95.5	671	109.6	707	124.5	741	140.2	775	156.4	808	173.1	884	215.9						
46000	3290	646	102.5	682	116.8	716	131.9	750	147.8	783	164.2	815	181.2	890	225.4						
48000	3433	658	109.9	693	124.5	727	139.8	759	155.9	791	172.5	822	189.8	897	235.2	966	281.7				
50000	3576	670	117.9	704	132.8	737	148.2	769	164.5	800	181.3	831	198.9	904	245.2	972	293.2				
52000	3719	683	126.3	716	141.5	748	157.3	780	173.7	810	190.7	839	208.5	911	255.3	978	304.4	1041	354.6		
54000	3862	697	135.2	729	150.8	760	166.9	790	183.4	820	200.8	849	218.7	918	266.0	985	316.0	1048	367.9	1106	419.5
56000	4005	711	144.6	741	160.7	772	177.0	801	193.9	831	211.5	859	229.6	927	277.3	992	328.1	1054	380.9	1112	434.4
58000	4148	725	154.4	755	171.1	784	187.8	813	205.0	841	222.7	869	240.9	935	289.2	999	340.8	1060	394.4	1118	450.0
60000	4291	740	165.0	768	182.0	797	199.3	825	216.6	853	234.5	880	253.0	945	302.0	1007	354.0	1067	408.5	1124	464.6
62000	4434	755	175.8	783	193.5	810	211.1	837	228.9	864	247.1	891	265.9	954	315.0	1015	367.5	1074	423.1	1131	479.9
64000	4577	771	187.4	797	205.4	823	223.6	850	242.0	876	260.4	902	279.3	964	328.9	1024	381.8	1082	437.7	1138	496.1
66000	4720	787	199.4	812	218.1	837	236.7	863	255.4	888	274.3	914	293.5	975	343.8	1034	397.2	1090	453.3		
68000	4864	803	212.1	827	231.1	852	250.3	876	269.6	901	289.0	926	308.5	986	359.0	1043	412.8	1099	469.9		
72000	5150	836	239.5	859	259.3	881	279.5	904	299.8	928	320.0	951	340.4	1008	392.2	1064	447.0	1117	504.5		
76000	5436	870	269.7	891	290.3	912	311.3	934	332.5	956	353.8	977	374.9	1032	428.6	1085	484.3	1136	542.4		
80000	5722	904	302.8	924	323.9	944	345.7	964	367.7	985	390.1	1005	412.4	1057	468.0	1108	524.8				
84000	6008	939	339.1	958	360.8	977	383.1	996	405.9	1015	429.0	1034	452.3	1083	510.4	1132	568.9				
88000	6294	974	378.6	993	401.0	1011	424.1	1028	447.5	1046	471.2	1064	495.2	1110	555.7						
92000	6580	1010	421.8	1027	444.6	1044	468.1	1062	492.2	1079	516.9	1096	541.6	1139	604.2						
96000	6866	1046	468.4	1063	491.8	1079	516.0	1095	540.6	1111	565.6	1128	591.2								

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 = 88.75 in.
 Outlet Area = 17.07 sq. ft. inside
 Maximum BHP = 708 x (RPM/1000)³
 Tip Speed, fpm = 23.2 x RPM

Model 40 Maximum RPM 1032
 Maximum Belt Drive Motor HP 350

Size

8075 SISW

Design 4270 Centrifugal BCI Fans

Volume O.Vel		10"SP		12"SP		14"SP		16"SP		18"SP		20"SP		25"SP		30"SP		35"SP		40"SP	
CFM	FPM	RPM	BHP																		
42000	2455	530	83.9	569	99.9	605	116.3	640	133.0												
44000	2572	536	88.6	574	104.9	610	121.7	644	139.1	677	156.5										
46000	2689	543	93.6	580	110.1	615	127.4	649	145.2	681	163.3										
48000	2806	550	99.0	586	115.7	621	133.3	654	151.5	686	170.2	716	189.2								
50000	2923	558	104.7	593	121.6	627	139.6	659	158.1	691	177.3	721	196.9								
52000	3040	566	110.8	600	127.9	633	146.0	665	164.9	696	184.6	726	204.7	795	255.4						
54000	3156	574	117.4	607	134.7	639	152.9	671	172.1	701	192.1	730	212.4	800	264.8						
56000	3273	583	124.4	615	141.9	647	160.3	677	179.8	707	199.8	736	220.6	804	274.6						
58000	3390	591	131.7	623	149.4	654	168.1	684	187.6	713	207.9	741	229.1	809	284.1	872	340.6				
60000	3507	601	139.4	632	157.4	662	176.4	691	196.0	719	216.6	747	238.1	814	293.7	876	351.5				
62000	3624	610	147.6	640	165.9	670	185.0	698	204.9	726	225.8	753	247.2	819	303.9	880	363.0	938	423.0		
64000	3741	620	156.1	649	174.9	678	194.1	706	214.3	733	235.2	760	256.9	825	314.5	885	374.9	942	436.1		
66000	3858	630	165.1	658	184.2	687	203.8	714	224.1	741	245.3	767	267.3	830	325.0	890	386.2	947	449.7		
68000	3975	640	174.4	668	194.0	695	213.9	722	234.5	749	255.9	774	277.9	836	336.3	895	398.4	951	462.4	1004	528.0
70000	4092	651	184.2	677	204.2	704	224.6	731	245.3	757	266.8	782	289.1	843	348.2	901	410.9	956	476.2	1008	542.6
72000	4209	661	194.3	687	214.9	714	235.6	739	256.7	765	278.5	790	301.1	849	360.2	906	423.5	961	489.9	1013	557.6
76000	4442	684	215.9	708	237.6	733	259.2	757	281.0	782	303.3	806	326.2	863	386.4	918	450.6	972	518.7	1022	588.3
80000	4676	707	239.3	730	262.0	753	284.6	776	307.3	800	330.3	823	353.7	878	414.9	932	480.0	983	548.9		
84000	4910	731	264.9	752	288.2	774	311.9	796	335.6	818	359.4	841	383.5	894	445.7	946	511.8	996	581.4		
88000	5144	755	292.3	776	316.5	796	341.2	817	366.0	838	390.8	859	415.7	911	479.0	961	546.0	1009	616.4		
92000	5378	780	322.3	800	347.3	819	372.7	839	398.4	859	424.2	879	450.0	928	514.9	977	582.8	1024	654.2		
96000	5611	805	354.4	824	380.0	842	406.2	861	432.8	880	459.5	899	486.3	947	553.4	994	622.3				
100000	5845	831	389.3	849	415.5	866	442.5	884	469.8	902	497.4	920	525.0	965	594.3	1011	664.7				
110000	6430	896	487.9	912	515.6	928	543.9	944	572.9	960	602.4	976	632.6	1016	708.0						
120000	7014	963	604.6	978	633.7	992	663.5	1006	693.8	1020	725.0										

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 = 27.00 in.
 Outlet Area = 2.06 sq. ft. inside
 Maximum BHP = 2.21 x (RPM/1000)³
 Tip Speed, fpm = 7.07 x RPM

Size

2450 sisw

Model 30 Maximum RPM 3047
 Maximum Belt Drive Motor HP 75

Design 4370 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP	
CFM	FPM	RPM	BHP																		
5000	2454	1884	12.0																		
5200	2552	1900	12.5	2017	14.5																
5400	2650	1915	13.0	2033	15.1																
5600	2748	1930	13.6	2049	15.7	2158	17.8														
5800	2847	1946	14.1	2064	16.3	2173	18.5														
6000	2945	1963	14.7	2079	16.9	2189	19.2	2292	21.5												
6200	3043	1983	15.3	2094	17.6	2205	19.9	2307	22.2	2402	24.6										
6400	3141	2003	15.9	2112	18.2	2219	20.6	2322	23.0	2419	25.4										
6800	3337	2047	17.3	2149	19.6	2252	22.1	2352	24.6	2449	27.1	2541	29.6	2627	32.2						
7200	3534	2092	18.7	2192	21.1	2288	23.7	2385	26.2	2479	28.9	2571	31.5	2659	34.2	2743	37.0				
7600	3730	2136	20.1	2237	22.7	2330	25.3	2421	28.0	2512	30.7	2602	33.5	2690	36.3	2774	39.1	2853	41.9	2928	44.8
8000	3926	2177	21.6	2282	24.4	2374	27.1	2462	29.9	2548	32.7	2635	35.6	2720	38.5	2804	41.4	2884	44.3	2960	47.3
8400	4123	2214	23.1	2325	26.1	2420	29.0	2507	31.9	2589	34.8	2671	37.7	2753	40.7	2834	43.7	2913	46.7	2991	49.8
8800	4319	2251	24.6	2364	27.8	2464	30.9	2552	34.0	2633	37.0	2712	40.0	2789	43.1	2867	46.1	2944	49.3	3020	52.4
9200	4515	2290	26.3	2401	29.6	2505	32.9	2596	36.1	2678	39.2	2755	42.4	2830	45.5	2904	48.7	2978	51.9		
9600	4712	2335	28.1	2437	31.4	2543	34.9	2638	38.3	2722	41.6	2799	44.9	2873	48.1	2945	51.4	3015	54.7		
10000	4908	2385	30.1	2478	33.3	2579	36.9	2677	40.5	2765	44.0	2844	47.4	2918	50.8	2988	54.2				
10500	5153	2454	32.8	2535	36.0	2626	39.6	2722	43.3	2814	47.1	2898	50.8	2973	54.3	3044	57.9				
11000	5399	2528	35.8	2600	39.0	2680	42.5	2769	46.3	2860	50.2	2947	54.1	3027	58.0						
11500	5644	2605	39.1	2671	42.3	2741	45.7	2820	49.5	2906	53.4	2993	57.5								
12000	5890	2685	42.7	2745	45.9	2809	49.3	2879	53.0	2956	56.9	3038	61.1								
12500	6135	2767	46.5	2823	49.8	2882	53.2	2944	56.8	3013	60.7										
13000	6380	2850	50.6	2903	54.0	2957	57.5	3014	61.1												
13500	6626	2934	54.9	2984	58.4	3035	62.0														
14000	6871	3019	59.6																		

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.

Wheel Diameter = 29.75 in.
 Outlet Area = 2.49 sq. ft. inside
 Maximum BHP = 3.60 x (RPM/1000)³
 Tip Speed, fpm = 7.79 x RPM

Size

2700 sisw

Model 30 Maximum RPM 2765
 Maximum Belt Drive Motor HP 100

Design 4370 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP		
CFM	FPM	RPM	BHP																			
6000	2425	1705	14.4																			
6400	2586	1728	15.4	1836	17.9																	
6800	2748	1752	16.5	1859	19.0	1958	21.6															
7200	2910	1776	17.6	1881	20.3	1982	23.0	2074	25.7													
7600	3071	1804	18.8	1905	21.6	2004	24.4	2098	27.3	2185	30.1											
8000	3233	1836	20.1	1931	22.9	2027	25.8	2121	28.8	2208	31.8	2291	34.8									
8400	3395	1869	21.4	1961	24.4	2052	27.3	2143	30.4	2231	33.5	2314	36.7	2394	39.9							
8800	3556	1903	22.8	1993	25.9	2080	29.0	2168	32.1	2253	35.3	2337	38.6	2417	41.9	2492	45.2					
9200	3718	1936	24.3	2027	27.5	2112	30.6	2195	33.9	2277	37.2	2359	40.5	2439	43.9	2516	47.4	2587	50.8			
9600	3880	1968	25.8	2061	29.1	2145	32.4	2225	35.7	2304	39.1	2383	42.5	2461	46.0	2538	49.6	2611	53.2	2680	56.7	
10000	4041	1996	27.3	2094	30.8	2179	34.3	2257	37.7	2333	41.1	2409	44.7	2484	48.2	2559	51.9	2633	55.6	2703	59.2	
10500	4243	2030	29.2	2132	33.0	2220	36.7	2299	40.2	2373	43.8	2445	47.4	2517	51.1	2589	54.9	2661	58.7	2731	62.5	
11000	4445	2065	31.2	2167	35.1	2260	39.1	2341	42.9	2415	46.6	2485	50.4	2554	54.2	2622	58.0	2691	61.9	2759	65.8	
11500	4647	2105	33.3	2201	37.4	2296	41.6	2381	45.6	2457	49.6	2527	53.5	2594	57.4	2659	61.3	2725	65.3			
12000	4849	2150	35.8	2237	39.8	2330	44.1	2418	48.4	2498	52.6	2569	56.7	2635	60.7	2699	64.8	2762	68.9			
12500	5051	2201	38.4	2278	42.4	2364	46.7	2453	51.2	2536	55.7	2610	60.0	2677	64.2	2741	68.4					
13000	5254	2254	41.3	2323	45.2	2402	49.5	2487	54.0	2572	58.8	2650	63.4	2720	67.9							
13500	5456	2310	44.4	2374	48.3	2444	52.5	2523	57.1	2605	61.9	2685	66.7	2758	71.5							
14000	5658	2368	47.7	2427	51.6	2491	55.8	2562	60.3	2639	65.1	2718	70.1									
14500	5860	2428	51.3	2483	55.2	2541	59.4	2605	63.8	2677	68.6	2752	73.6									
15000	6062	2488	55.0	2540	59.0	2595	63.2	2653	67.6	2718	72.3											
15500	6264	2550	59.0	2599	63.1	2651	67.3	2704	71.7	2763	76.3											
16000	6466	2612	63.3	2659	67.4	2708	71.6	2758	76.0													
16500	6668	2675	67.7	2720	71.9																	
17000	6870	2739	72.3																			

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.



Wheel Diameter = 33.00 in.
 Outlet Area = 3.08 sq. ft. inside
 Maximum BHP = 6.09 x (RPM/1000)³
 Tip Speed, fpm = 8.64 x RPM

Model 30 Maximum RPM 2489
 Maximum Belt Drive Motor HP 125

Size

3000 SISW

Design 4370 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP	
CFM	FPM	RPM	BHP																		
7600	2488	1543	18.2																		
8000	2619	1560	19.3	1656	22.3																
8400	2750	1577	20.4	1673	23.5	1762	26.7														
8800	2881	1594	21.5	1690	24.8	1780	28.1	1862	31.4												
9200	3011	1614	22.7	1707	26.0	1796	29.5	1880	32.9												
9600	3142	1636	23.9	1725	27.4	1812	30.9	1896	34.5	1975	38.1										
10000	3273	1659	25.2	1745	28.7	1829	32.3	1913	36.1	1993	39.8	2067	43.6								
10500	3437	1690	26.9	1773	30.6	1853	34.3	1934	38.1	2013	42.0	2089	45.9	2159	49.8						
1100036011721	28.7	1803	32.5	1880	36.3	1957	40.2	2034	44.2	2109	48.3	2181	52.4	2248	56.5	2312	60.6	2397	67.8		
1150037641750	30.5	1833	34.5	1909	38.4	1983	42.5	2056	46.6	2130	50.8	2201	55.0	2269	59.2	2334	63.5	2397			
12000	3928	1778	32.4	1864	36.6	1939	40.7	2011	44.9	2081	49.1	2152	53.3	2222	57.7	2290	62.1	2355	66.5	2418	70.9
12500	4092	1804	34.2	1893	38.7	1971	43.0	2041	47.3	2109	51.6	2176	56.0	2243	60.5	2311	65.0	2376	69.5	2438	74.1
13000	4255	1829	36.1	1920	40.9	2001	45.4	2071	49.9	2138	54.3	2203	58.8	2267	63.3	2332	68.0	2397	72.7	2459	77.4
13500	4419	1854	38.1	1946	43.0	2029	47.9	2102	52.5	2168	57.1	2232	61.7	2294	66.4	2356	71.1	2418	75.9	2480	80.8
14000	4583	1883	40.3	1971	45.3	2056	50.3	2132	55.3	2200	60.1	2262	64.8	2323	69.6	2382	74.3	2442	79.2		
14500	4746	1914	42.6	1996	47.6	2081	52.8	2161	58.0	2230	63.0	2293	68.0	2353	72.9	2411	77.8	2468	82.7		
15000	4910	1949	45.1	2024	50.0	2106	55.4	2186	60.8	2258	66.0	2323	71.2	2383	76.2	2441	81.3				
15500	5074	1986	47.8	2054	52.7	2132	58.0	2211	63.6	2286	69.1	2353	74.5	2414	79.8	2471	85.0				
16000	5237	2025	50.7	2088	55.5	2159	60.8	2236	66.4	2312	72.3	2382	77.9	2444	83.4						
16500	5401	2065	53.8	2124	58.6	2189	63.8	2262	69.4	2336	75.3	2407	81.2	2472	87.0						
17000	5565	2107	57.0	2162	61.8	2222	67.0	2289	72.6	2361	78.5	2433	84.6								
18000	5892	2194	64.0	2243	68.9	2295	74.0	2351	79.5	2415	85.4	2482	91.6								
19000	6219	2283	71.7	2328	76.8	2374	81.9	2424	87.4	2477	93.1										
20000	6547	2374	80.2	2415	85.4	2458	90.7														
21000	6874	2466	89.4																		

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 = 36.25 in.
 Outlet Area = 3.72 sq. ft. inside
 Maximum BHP = 10.71 x (RPM/1000)³
 Tip Speed, fpm = 9.49 x RPM

Model 30 Maximum RPM 2262
 Maximum Belt Drive Motor HP 125

Size

3300 SISW

Design 4370 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP	
CFM	FPM	RPM	BHP																		
9500	2556	1397	23.0	1485	26.6																
10000	2691	1411	24.3	1499	28.1																
10500	2825	1426	25.7	1514	29.6	1597	33.6														
11000	2960	1442	27.1	1528	31.2	1611	35.4	1688	39.6												
11500	3094	1460	28.7	1543	32.8	1625	37.2	1702	41.5	1774	45.8										
12000	3229	1479	30.2	1560	34.5	1640	39.0	1716	43.4	1788	47.9	1858	52.5								
12500	3364	1499	31.9	1578	36.3	1655	40.9	1730	45.4	1802	50.1	1871	54.8	1937	59.5						
13000	3498	1520	33.6	1597	38.2	1672	42.8	1745	47.5	1817	52.3	1886	57.2	1951	62.1	2014	67.0				
13500	3633	1542	35.4	1617	40.1	1690	44.9	1762	49.7	1832	54.7	1901	59.7	1966	64.7	2029	69.7	2089	74.8		
14000	3767	1564	37.2	1638	42.1	1709	47.0	1779	52.0	1848	57.0	1915	62.1	1980	67.3	2043	72.5	2103	77.7	2161	83.0
14500	3902	1587	39.2	1660	44.2	1730	49.2	1797	54.3	1864	59.5	1930	64.7	1994	70.0	2056	75.3	2117	80.7	2175	86.1
15000	4036	1610	41.2	1682	46.3	1751	51.5	1817	56.7	1882	62.0	1946	67.3	2009	72.8	2071	78.2	2130	83.7	2189	89.3
15500	4171	1632	43.2	1705	48.5	1772	53.8	1838	59.2	1901	64.7	1964	70.1	2026	75.7	2086	81.3	2145	86.9	2202	92.5
16000	4305	1656	45.3	1727	50.8	1795	56.3	1859	61.8	1921	67.3	1982	72.9	2042	78.6	2102	84.3	2160	90.1	2217	95.9
16500	4440	1679	47.5	1751	53.2	1817	58.8	1880	64.4	1941	70.1	2001	75.8	2060	81.6	2118	87.4	2175	93.3	2232	99.4
17000	4574	1703	49.8	1773	55.6	1840	61.4	1903	67.2	1963	73.1	2022	78.9	2079	84.8	2136	90.7	2192	96.7	2247	102.8
18000	4843	1752	54.7	1820	60.7	1885	66.8	1948	72.9	2007	79.1	2064	85.2	2119	91.3	2173	97.5	2227	103.7		
19000	5113	1805	60.2	1868	66.2	1931	72.5	1993	79.0	2052	85.4	2108	91.8	2162	98.2	2214	104.7				
20000	5382	1861	66.3	1919	72.3	1979	78.7	2039	85.4	2097	92.1	2153	98.9	2206	105.6	2257	112.3				
21000	5651	1920	72.9	1974	79.0	2029	85.4	2086	92.2	2143	99.2	2198	106.2	2251	113.3						
22000	5920	1981	80.1	2031	86.3	2083	92.7	2136	99.6	2190	106.7	2244	114.0								
23000	6189	2044	88.0	2091	94.2	2139	100.7	2188	107.6	2239	114.8										
24000	6458	2109	96.5	2152	102.8	2197	109.4	2243	116.3												
25000	6727	2175	105.6	2215	112.1	2257	118.8														
26000	6996	2242	115.4																		

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 = 40.125 in.
 Outlet Area = 4.57 sq. ft. inside
 Maximum BHP = 17.7 x (RPM/1000)³
 Tip Speed, fpm = 10.5 x RPM

Size

3650 sisw

Model 30 Maximum RPM 2045
 Maximum Belt Drive Motor HP 150

Design 4370 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP	
CFM	FPM	RPM	BHP																		
11500	2529	1260	27.8																		
12000	2639	1271	29.1	1351	33.7																
12500	2749	1281	30.5			1436	40.0														
13000	2859	1293	31.9	1372	36.7	1446	41.7														
13500	2969	1305	33.3	1383	38.3	1457	43.4	1527	48.6												
14000	3079	1318	34.9	1394	40.0	1468	45.2	1537	50.4	1603	55.8										
14500	3189	1332	36.4	1406	41.7	1478	47.0	1547	52.4	1613	57.9	1676	63.4								
15000	3299	1346	38.0	1419	43.4	1489	48.9	1558	54.4	1624	60.1	1687	65.8								
15500	3409	1361	39.7	1432	45.2	1502	50.8	1569	56.5	1634	62.2	1696	68.0	1756	73.9						
16000	3519	1377	41.5	1446	47.1	1514	52.8	1580	58.6	1645	64.5	1707	70.4	1766	76.4	1823	82.5				
16500	3629	1393	43.2	1462	49.0	1527	54.8	1592	60.8	1656	66.8	1718	72.9	1777	79.1	1834	85.2	1888	91.4		
17000	3739	1410	45.1	1477	51.0	1542	57.0	1605	63.0	1667	69.1	1728	75.3	1787	81.6	1844	88.0	1899	94.4	1951	100.7
18000	3959	1443	48.9	1509	55.1	1572	61.4	1633	67.7	1693	74.1	1751	80.6	1809	87.1	1865	93.7	1919	100.3	1971	107.0
19000	4179	1477	53.0	1543	59.5	1604	66.0	1662	72.6	1720	79.3	1777	86.0	1832	92.8	1887	99.6	1940	106.5	1992	113.4
20000	4399	1511	57.3	1576	64.2	1636	71.0	1694	77.8	1750	84.7	1804	91.7	1857	98.7	1910	105.8	1962	112.9	2014	120.2
21000	4619	1547	61.9	1610	69.0	1670	76.2	1727	83.3	1781	90.5	1834	97.7	1885	105.0	1936	112.3	1986	119.7	2036	127.2
22000	4839	1583	66.9	1644	74.2	1704	81.6	1760	89.1	1814	96.6	1865	104.1	1915	111.6	1964	119.1	2013	126.8		
23000	5059	1622	72.3	1680	79.6	1738	87.3	1794	95.1	1847	103.0	1898	110.8	1947	118.5	1994	126.3	2041	134.2		
24000	5279	1663	78.2	1717	85.5	1773	93.3	1828	101.5	1881	109.6	1931	117.7	1980	125.8	2026	133.8				
25000	5499	1706	84.5	1756	91.9	1809	99.8	1862	108.0	1914	116.4	1964	124.8	2012	133.3						
26000	5719	1750	91.3	1797	98.8	1847	106.7	1897	115.0	1948	123.6	1998	132.3								
27000	5939	1795	98.7	1840	106.2	1886	114.1	1934	122.5	1983	131.2	2032	140.1								
28000	6159	1842	106.5	1884	114.2	1928	122.1	1973	130.5	2020	139.3										
30000	6599	1938	123.8	1976	131.7	2015	139.8														
32000	7038	2036	143.2																		

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 = 44.25 in.
 Outlet Area = 5.53 sq. ft. inside
 Maximum BHP = 28.9 x (RPM/1000)³
 Tip Speed, fpm = 11.6 x RPM

Size

4025 sisw

Model 30 Maximum RPM 1855
 Maximum Belt Drive Motor HP 200

Design 4370 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP	
CFM	FPM	RPM	BHP																		
14000	2532	1143	33.8																		
14500	2623	1151	35.1	1224	40.7																
15000	2713	1159	36.5	1231	42.2	1299	47.9														
15500	2804	1167	37.9	1239	43.7	1307	49.7														
16000	2894	1176	39.3	1247	45.3	1314	51.3	1378	57.4												
16500	2984	1185	40.8	1255	46.9	1322	53.1	1386	59.4												
17000	3075	1195	42.3	1264	48.5	1330	54.9	1393	61.2	1453	67.7										
18000	3256	1215	45.5	1282	51.9	1347	58.5	1409	65.2	1469	72.0	1525	78.8								
19000	3437	1238	48.8	1302	55.5	1364	62.4	1426	69.4	1484	76.4	1541	83.5	1595	90.7						
20000	3617	1262	52.3	1324	59.3	1384	66.4	1443	73.6	1501	81.0	1557	88.3	1611	95.8	1662	103.3	1711	110.8		
21000	3798	1287	56.1	1347	63.3	1405	70.6	1462	78.1	1518	85.7	1573	93.4	1626	101.1	1677	108.8	1727	116.6	1774	124.5
22000	3979	1312	59.9	1371	67.5	1428	75.1	1483	82.8	1537	90.7	1590	98.6	1643	106.6	1693	114.6	1742	122.6	1789	130.8
23000	4160	1337	64.0	1396	71.9	1452	79.8	1505	87.8	1558	95.9	1609	104.0	1660	112.3	1709	120.5	1758	128.9	1805	137.2
24000	4341	1362	68.3	1421	76.5	1476	84.7	1529	93.0	1579	101.3	1629	109.7	1678	118.1	1727	126.7	1774	135.3	1821	143.9
25000	4522	1388	72.8	1446	81.3	1501	89.9	1553	98.4	1602	106.9	1651	115.5	1698	124.3	1745	133.1	1792	142.0	1837	150.9
26000	4703	1415	77.5	1472	86.3	1526	95.2	1577	104.0	1626	112.8	1673	121.7	1720	130.6	1765	139.7	1811	148.9	1855	158.0
27000	4884	1443	82.6	1498	91.5	1551	100.6	1602	109.8	1651	119.0	1697	128.1	1742	137.3	1787	146.6	1830	156.0		
28000	5064	1472	88.1	1524	97.0	1577	106.3	1628	115.9	1676	125.4	1722	134.9	1766	144.3	1809	153.8	1852	163.4		
29000	5245	1503	93.9	1552	102.9	1603	112.4	1653	122.2	1701	132.0	1746	141.7	1790	151.6	1833	161.4				
30000	5426	1534	100.1	1581	109.2	1629	118.7	1678	128.6	1726	138.7	1771	148.8	1815	158.9						
31000	5607	1567	106.8	1611	115.8	1657	125.4	1704	135.5	1751	145.8	1796	156.3	1840	166.7						
32000	5788	1600	113.8	1642	122.9	1686	132.5	1731	142.7	1777	153.2	1821	163.9								
34000	6150	1669	129.2	1707	138.4	1747	148.1	1788	158.3	1830	169.0										
36000	6511	1740	146.2	1775	155.7	1811	165.5	1848	175.7												
38000	6873	1813	164.9	1845	174.7																

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.



Wheel Diameter = 49.00 in.
 Outlet Area = 6.76 sq. ft. inside
 Maximum BHP = 47.8 x (RPM/1000)³
 Tip Speed, fpm = 12.8 x RPM

Size

4450 SISW

Model 30 Maximum RPM 1678
 Maximum Belt Drive Motor HP 250

Design 4370 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP	
CFM	FPM	RPM	BHP																		
17000	2516	1032	41.0																		
18000	2664	1044	43.7	1110	50.5																
19000	2812	1056	46.5	1121	53.6	1183	60.9														
20000	2960	1069	49.4	1133	56.7	1194	64.3	1252	71.9												
21000	3107	1084	52.4	1146	60.0	1206	67.9	1263	75.7	1317	83.7										
22000	3255	1099	55.6	1159	63.5	1218	71.5	1275	79.7	1328	87.9	1380	96.3								
23000	3403	1116	58.9	1174	67.0	1231	75.4	1287	83.8	1340	92.3	1391	100.9	1440	109.7						
24000	3551	1134	62.4	1190	70.8	1245	79.4	1299	88.0	1352	96.8	1402	105.7	1451	114.7	1498	123.8				
25000	3699	1152	66.0	1207	74.7	1260	83.5	1313	92.4	1364	101.5	1414	110.6	1463	119.9	1509	129.2	1554	138.7		
26000	3847	1170	69.8	1224	78.8	1276	87.8	1327	97.0	1377	106.3	1427	115.7	1474	125.3	1521	134.8	1565	144.5	1609	154.4
27000	3995	1188	73.7	1243	83.0	1293	92.3	1343	101.8	1392	111.4	1440	121.1	1487	130.8	1532	140.7	1577	150.5	1620	160.6
28000	4143	1207	77.8	1261	87.4	1311	97.0	1360	106.8	1407	116.6	1454	126.5	1500	136.5	1545	146.7	1589	156.8	1631	167.0
29000	4291	1226	82.1	1279	91.9	1329	102.0	1377	111.9	1423	121.9	1468	132.0	1513	142.3	1557	152.7	1601	163.3	1643	173.7
30000	4439	1245	86.4	1298	96.7	1347	106.9	1394	117.1	1440	127.5	1484	137.9	1527	148.4	1570	159.0	1613	169.7	1655	180.6
31000	4587	1264	91.0	1317	101.5	1366	112.1	1413	122.7	1457	133.3	1501	144.0	1543	154.7	1585	165.5	1626	176.4	1667	187.5
32000	4735	1284	95.9	1335	106.5	1385	117.6	1431	128.4	1475	139.2	1518	150.1	1559	161.2	1600	172.3	1641	183.5		
33000	4883	1305	101.0	1355	111.9	1403	123.0	1449	134.2	1493	145.4	1535	156.6	1576	167.8	1616	179.2	1656	190.6		
34000	5031	1327	106.4	1374	117.3	1422	128.7	1468	140.3	1512	151.8	1553	163.3	1594	174.9	1633	186.4	1671	198.0		
35000	5179	1349	112.1	1395	123.1	1441	134.6	1486	146.4	1530	158.3	1571	170.1	1611	181.9	1650	193.8				
36000	5327	1372	118.2	1415	129.1	1460	140.8	1505	152.9	1549	165.1	1590	177.2	1629	189.3	1667	201.4				
38000	5623	1420	131.3	1459	142.3	1501	154.0	1544	166.3	1586	179.0	1627	191.8	1666	204.5						
40000	5919	1469	145.6	1506	156.8	1544	168.6	1584	181.0	1624	194.0	1664	207.2								
42000	6215	1521	161.4	1555	172.8	1590	184.7	1627	197.1	1664	210.2										
44000	6511	1573	178.6	1605	190.2	1638	202.3	1672	214.8												
46000	6807	1627	197.2	1657	209.1																

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 = 54.00 in.
 Outlet Area = 8.17 sq. ft. inside
 Maximum BHP = 77.3 x (RPM/1000)³
 Tip Speed, fpm = 14.1 x RPM

Size

4900 SISW

Model 30 Maximum RPM 1524
 Maximum Belt Drive Motor HP 300

Design 4370 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP	
CFM	FPM	RPM	BHP																		
20000	2441	933	48.2																		
21000	2563	941	50.8	1001	58.8																
22000	2685	950	53.5	1009	61.8																
23000	2807	959	56.3	1018	64.8	1074	73.7														
24000	2929	969	59.2	1027	68.0	1082	77.1	1134	86.2												
25000	3051	979	62.1	1036	71.3	1091	80.6	1143	90.0	1192	99.6										
26000	3173	990	65.2	1046	74.7	1100	84.2	1151	93.9	1201	103.8										
27000	3295	1002	68.4	1057	78.1	1109	87.9	1161	98.0	1210	108.1	1256	118.4								
28000	3417	1015	71.8	1068	81.7	1119	91.8	1170	102.1	1218	112.4	1264	122.9	1309	133.6						
29000	3539	1028	75.3	1079	85.4	1130	95.8	1179	106.3	1227	116.9	1273	127.7	1317	138.5	1360	149.5				
30000	3661	1042	78.9	1092	89.4	1141	99.9	1189	110.7	1236	121.6	1282	132.6	1326	143.8	1368	154.9	1409	166.3		
32000	3905	1069	86.5	1118	97.5	1165	108.7	1211	119.9	1256	131.2	1300	142.8	1343	154.4	1385	166.2	1426	178.2	1465	190.1
34000	4150	1097	94.5	1146	106.2	1191	117.9	1235	129.7	1278	141.6	1321	153.6	1362	165.8	1403	178.2	1443	190.4	1482	202.8
36000	4394	1125	103.1	1174	115.5	1218	127.7	1261	140.0	1303	152.5	1343	165.0	1383	177.7	1423	190.4	1461	203.3	1499	216.3
38000	4638	1154	112.3	1202	125.2	1246	138.1	1288	151.0	1329	164.0	1368	177.0	1406	190.2	1444	203.4	1481	216.8	1519	230.4
40000	4882	1185	122.3	1230	135.6	1274	149.0	1316	162.6	1356	176.2	1394	189.8	1431	203.4	1467	217.1	1503	231.1		
42000	5126	1218	133.4	1260	146.7	1302	160.6	1344	174.8	1383	189.0	1421	203.2	1457	217.4	1493	231.6				
44000	5370	1252	145.5	1291	158.8	1331	172.9	1372	187.6	1411	202.5	1449	217.3	1484	232.1	1519	246.9				
46000	5614	1288	158.6	1324	172.0	1362	186.2	1401	201.2	1439	216.5	1476	232.0	1512	247.4						
48000	5858	1325	172.9	1359	186.4	1394	200.7	1431	215.7	1468	231.4	1504	247.4								
50000	6102	1363	188.3	1395	202.0	1428	216.3	1462	231.4	1497	247.2										
52000	6346	1402	204.7	1432	218.6	1463	233.1	1495	248.2												
54000	6590	1442	222.5	1470	236.7	1499	251.3														
56000	6834	1482	241.3	1509	255.7																
58000	7079	1524	261.5																		

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 = 59.75 in.
 Outlet Area = 10.03 sq. ft. inside
 Maximum BHP = 128.6 x (RPM/1000)³
 Tip Speed, fpm = 15.6 x RPM

Size

5425 sisw

Model 30 Maximum RPM 1376
 Maximum Belt Drive Motor HP 350

Design 4370 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP	
CFM	FPM	RPM	BHP																		
25000	2489	845	60.3																		
26000	2589	852	62.9	906	72.9																
27000	2688	858	65.6	912	75.8																
28000	2788	865	68.4	918	78.9	969	89.6														
29000	2887	872	71.2	925	82.1	975	93.0	1022	104.1												
30000	2987	879	74.2	931	85.2	981	96.5	1029	108.0												
31000	3087	887	77.2	938	88.5	988	100.1	1035	111.7	1079	123.5										
32000	3186	896	80.3	946	91.9	994	103.7	1041	115.6	1085	127.7										
33000	3286	904	83.5	953	95.4	1001	107.4	1048	119.7	1092	132.1	1134	144.6								
34000	3385	914	86.9	962	98.9	1009	111.4	1054	123.7	1098	136.4	1140	149.1	1180	162.0						
35000	3485	923	90.3	970	102.7	1016	115.2	1061	127.9	1104	140.9	1146	154.0	1186	167.1	1224	180.3				
36000	3584	933	93.9	979	106.5	1024	119.3	1068	132.3	1111	145.4	1153	158.7	1193	172.2	1231	185.9				
37000	3684	943	97.6	988	110.4	1032	123.4	1075	136.6	1118	150.1	1159	163.7	1199	177.4	1237	191.2	1274	205.2		
38000	3784	953	101.3	998	114.4	1041	127.7	1084	141.3	1125	155.0	1166	168.8	1206	182.8	1244	196.9	1280	211.0	1315	225.2
39000	3883	964	105.2	1008	118.5	1051	132.2	1092	145.8	1132	159.7	1173	173.8	1212	188.1	1250	202.4	1287	217.0	1322	231.7
40000	3983	974	109.0	1018	122.8	1060	136.6	1100	150.6	1141	164.9	1180	179.3	1219	193.8	1256	208.3	1293	223.0	1328	237.8
42000	4182	994	117.2	1038	131.7	1079	146.0	1119	160.6	1157	175.3	1195	190.1	1233	205.1	1270	220.2	1305	235.4	1340	250.8
44000	4381	1015	125.8	1059	140.9	1099	155.9	1138	171.0	1176	186.2	1212	201.6	1248	217.0	1284	232.6	1319	248.3	1353	264.2
46000	4580	1036	134.9	1079	150.5	1120	166.2	1158	182.0	1195	197.8	1230	213.6	1265	229.5	1300	245.6	1334	261.7	1367	278.1
48000	4779	1059	144.7	1100	160.6	1140	177.0	1178	193.4	1214	209.7	1249	226.1	1283	242.6	1316	259.1	1349	275.8		
52000	5177	1106	166.5	1144	182.8	1182	200.0	1219	217.5	1255	235.1	1289	252.6	1321	270.2	1353	287.9				
56000	5576	1158	191.8	1191	208.2	1226	225.6	1261	243.9	1296	262.8	1330	281.7	1362	300.4						
60000	5974	1213	220.7	1243	237.3	1274	254.8	1306	273.3	1338	292.6	1371	312.4								
64000	6372	1270	253.2	1297	270.3	1325	288.0	1354	306.5												
68000	6770	1329	289.6	1354	307.2																

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 = 66.00 in.
 Outlet Area = 12.29 sq. ft. inside
 Maximum BHP = 213 x (RPM/1000)³
 Tip Speed, fpm = 17.3 x RPM

Size

6000 sisw

Model 30 Maximum RPM 1244
 Maximum Belt Drive Motor HP 350

Design 4370 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP	
CFM	FPM	RPM	BHP																		
31000	2523	766	74.9																		
32000	2605	771	77.5	820	89.8																
33000	2686	776	80.2	824	92.7																
34000	2767	781	83.0	829	95.8	875	108.7														
35000	2849	786	85.8	834	98.8	879	112.1														
36000	2930	791	88.7	839	102.0	884	115.6	926	129.3												
38000	3093	803	94.7	849	108.5	894	122.8	936	137.0	976	151.4										
40000	3256	815	101.0	860	115.4	903	130.1	945	144.9	985	159.9	1023	175.1								
42000	3419	829	107.7	872	122.5	914	137.7	955	153.2	995	168.7	1033	184.4	1069	200.3						
44000	3581	843	114.7	885	130.1	926	145.8	966	161.7	1004	177.7	1042	194.0	1078	210.5	1113	227.2				
46000	3744	858	122.1	899	138.0	938	154.2	977	170.6	1015	187.1	1052	203.9	1087	220.9	1122	238.1	1156	255.5	1187	272.6
48000	3907	873	129.8	913	146.2	952	163.0	989	179.8	1026	196.9	1062	214.2	1097	231.7	1131	249.4	1165	267.4	1197	285.1
50000	4070	889	137.8	928	154.9	966	172.2	1002	189.5	1038	207.0	1073	224.8	1107	242.8	1141	261.0	1174	279.5	1206	298.1
52000	4233	904	146.0	943	163.9	980	181.7	1016	199.5	1050	217.6	1084	235.9	1118	254.4	1151	273.1	1183	292.0	1215	311.1
54000	4395	919	154.6	959	173.2	995	191.6	1030	210.1	1064	228.8	1097	247.6	1130	266.5	1162	285.6	1193	304.9	1225	324.5
56000	4558	935	163.8	974	182.8	1010	201.9	1045	221.2	1078	240.3	1111	259.6	1142	279.1	1174	298.7	1204	318.4	1235	338.3
58000	4721	951	173.4	989	192.8	1026	212.7	1060	232.3	1093	252.0	1124	271.8	1155	291.8	1186	312.0	1216	332.5		
60000	4884	968	183.6	1005	203.4	1041	223.6	1075	244.0	1107	264.4	1139	284.7	1169	305.2	1199	325.8	1228	346.6		
62000	5047	986	194.5	1021	214.3	1056	235.0	1090	256.2	1123	277.3	1154	298.3	1183	319.2	1212	340.2	1241	361.4		
64000	5209	1004	206.0	1037	225.9	1072	247.1	1105	268.6	1137	290.2	1168	311.8	1198	333.4	1226	355.2				
68000	5535	1042	231.3	1073	251.3	1104	272.6	1136	295.0	1168	317.8	1198	340.7	1228	363.7						
72000	5861	1082	259.4	1110	279.7	1139	301.1	1169	323.7	1199	347.2	1229	371.2								
76000	6186	1124	290.6	1150	311.3	1176	332.8	1203	355.4	1231	379.2										
80000	6512	1167	324.8	1191	345.9	1215	367.8	1240	390.5												
84000	6837	1211	362.2	1233	383.8																

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 = 72.50 in.
 Outlet Area = 14.87 sq. ft. inside
 Maximum BHP = 343 x (RPM/1000)³
 Tip Speed, fpm = 19.0 x RPM

Model 30 Maximum RPM 1131
 Maximum Belt Drive Motor HP 350

Size

6600 SISW

Design 4370 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP	
CFM	FPM	RPM	BHP																		
36000	2422	691	86.8																		
38000	2556	698	91.9	743	106.4																
40000	2691	706	97.3																		
42000	2825	713	102.8	757	118.5	798	134.6														
44000	2960	721	108.6	764	124.8	805	141.5	844	158.2												
46000	3094	730	114.6	772	131.4	813	148.6	851	165.8	887	183.3										
48000	3229	739	121.0	780	138.2	820	156.0	858	173.7	894	191.7	929	210.0								
50000	3364	750	127.6	789	145.3	828	163.5	865	181.8	901	200.4	936	219.2	969	238.2						
52000	3498	760	134.4	798	152.7	836	171.3	873	190.2	908	209.4	943	228.8	976	248.3	1007	267.9				
54000	3633	771	141.5	809	160.5	845	179.4	881	198.9	916	218.7	950	238.7	983	258.8	1014	278.9	1044	299.2		
56000	3767	782	149.0	819	168.3	855	188.0	890	208.0	924	228.1	957	248.5	990	269.2	1022	290.2	1052	311.0	1080	331.9
58000	3902	794	156.8	830	176.6	865	196.9	899	217.2	932	237.8	965	258.7	997	279.9	1028	301.3	1059	323.0	1088	344.5
60000	4036	805	164.6	841	185.3	875	205.9	908	226.8	941	247.9	973	269.4	1005	291.0	1035	312.9	1065	334.9	1095	357.4
62000	4171	816	172.8	852	194.1	886	215.3	919	236.8	951	258.6	982	280.6	1013	302.7	1043	325.0	1072	347.4	1101	370.1
64000	4305	828	181.4	864	203.2	897	225.3	929	247.2	960	269.3	991	291.6	1021	314.3	1051	337.3	1080	360.6	1108	383.5
68000	4574	851	199.3	887	222.3	920	245.6	951	268.9	982	292.2	1011	315.6	1040	339.2	1068	362.9	1096	386.8	1123	411.1
72000	4843	876	219.0	910	242.8	943	267.2	974	291.7	1003	316.2	1032	340.7	1060	365.3	1087	390.0	1113	414.9		
76000	5113	903	240.8	934	265.0	966	290.1	997	315.9	1026	341.7	1054	367.3	1081	393.0	1107	418.8				
80000	5382	931	265.0	960	289.2	990	314.8	1020	341.4	1049	368.5	1076	395.4	1103	422.3	1129	449.2				
84000	5651	960	291.6	987	315.9	1015	341.6	1043	368.7	1072	396.7	1099	425.0	1125	453.1						
88000	5920	991	320.5	1016	345.0	1041	370.9	1068	398.3	1095	426.8	1122	456.0								
92000	6189	1022	352.0	1045	376.9	1069	403.0	1094	430.4	1120	459.1										
96000	6458	1054	385.9	1076	411.3	1098	437.7	1122	465.2												
100000	6727	1087	422.6	1108	448.4	1129	475.1														
105000	7063	1129	472.0																		

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 = 80.25 in.
 Outlet Area = 18.18 sq. ft. inside
 Maximum BHP = 567 x (RPM/1000)³
 Tip Speed, fpm = 21.0 x RPM

Model 30 Maximum RPM 1023
 Maximum Belt Drive Motor HP 350

Size

7300 SISW

Design 4370 Centrifugal BCI Fans

Volume O.Vel		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP	
CFM	FPM	RPM	BHP																		
44000	2419	625	106.0																		
46000	2529	630	111.1																		
48000	2639	635	116.4	676	134.8																
50000	2749	641	121.9	681	140.8	718	159.8														
52000	2859	646	127.5	686	146.9	723	166.6														
54000	2969	652	133.3	691	153.3	728	173.6	764	194.3												
56000	3079	659	139.5	697	159.8	734	180.8	768	201.7	801	223.1										
58000	3189	666	145.7	703	166.7	739	187.9	774	209.6	807	231.5	838	253.7								
60000	3299	673	152.1	709	173.7	745	195.4	779	217.7	812	240.4	844	263.1								
62000	3409	681	158.8	716	180.8	751	203.2	785	226.0	817	248.9	848	272.1	878	295.6						
64000	3519	689	165.9	723	188.2	757	211.2	790	234.3	822	257.9	853	281.6	883	305.6	912	329.8				
68000	3739	705	180.4	738	203.9	771	227.8	803	252.1	834	276.5	864	301.4	893	326.5	922	351.9	950	377.7	976	403.0
72000	3959	722	195.8	755	220.5	786	245.4	816	270.8	846	296.4	876	322.2	905	348.5	933	374.9	960	401.2	986	427.8
76000	4179	739	212.0	771	238.2	802	264.1	831	290.5	860	317.1	888	344.0	916	371.2	943	398.5	970	425.9	996	453.8
80000	4399	756	229.2	788	256.7	818	283.9	847	311.3	875	339.0	902	366.8	929	394.9	955	423.2	981	451.8	1007	480.8
84000	4619	773	247.6	805	276.1	835	304.7	863	333.3	891	362.1	917	390.9	943	419.9	968	449.2	993	478.8	1018	508.8
88000	4839	792	267.5	822	296.6	852	326.4	880	356.4	907	386.4	933	416.3	958	446.3	982	476.5	1006	507.0		
92000	5059	811	289.1	840	318.5	869	349.2	897	380.6	924	411.9	949	443.0	973	474.1	997	505.2	1021	536.6		
96000	5279	832	312.6	859	342.1	886	373.4	914	405.8	940	438.3	966	470.7	990	503.2	1013	535.3				
100000	5499	853	337.9	878	367.6	905	399.2	931	432.1	957	465.6	982	499.4	1006	533.1						
105000	5774	881	372.5	904	402.4	928	434.1	953	467.3	978	501.8	1003	537.0								
110000	6049	909	410.2	931	440.4	953	472.1	977	505.6	1001	540.6										
115000	6324	939	450.9	959	481.7	980	513.7	1001	547.3												
120000	6599	969	495.2	988	526.7	1007	559.1														
125000	6873	999	542.6	1017	574.6																

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.



Wheel Diameter = 88.75 in.
 Outlet Area = 22.25 sq. ft. inside
 Maximum BHP = 939 x (RPM/1000)³
 Tip Speed, fpm = 23.2 x RPM

Size

8075 sisw

Model 30 Maximum RPM 925
 Maximum Belt Drive Motor HP 350

Design 4370 Centrifugal BCI Fans

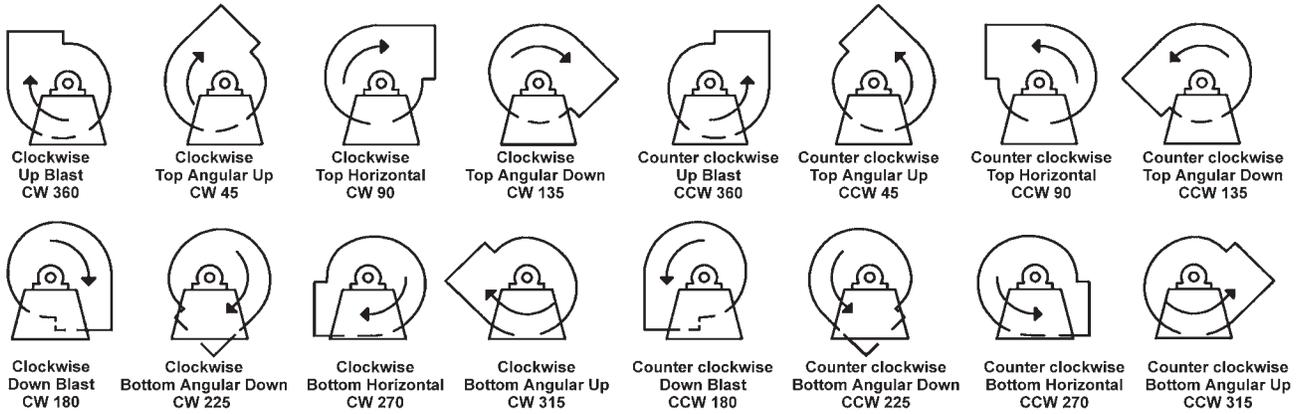
Volume		12"SP		14"SP		16"SP		18"SP		20"SP		22"SP		24"SP		26"SP		28"SP		30"SP	
CFM	FPM	RPM	BHP																		
56000	2517	569	135.2																		
58000	2606	573	140.4	609	162.7																
60000	2696	577	145.9	613	168.6																
62000	2786	581	151.5	617	174.7	651	198.5														
64000	2876	585	157.1	621	181.1	654	205.1														
68000	3056	594	169.0	629	193.9	662	219.2	694	244.8	723	270.8										
72000	3236	605	181.6	638	207.4	671	234.0	701	260.6	731	287.6	759	315.0								
76000	3415	616	194.8	648	221.7	679	249.2	710	277.1	739	305.2	767	333.6	794	362.5						
80000	3595	628	208.8	658	236.8	689	265.2	718	294.3	747	323.4	775	352.9	802	382.9	828	413.3				
84000	3775	640	223.6	670	252.7	699	282.1	728	312.1	756	342.4	783	373.0	809	404.0	835	435.4	860	466.4	883	497.9
88000	3955	652	239.1	682	269.4	710	299.9	738	330.9	765	362.1	791	393.7	817	425.8	843	458.3	867	490.4	891	522.9
92000	4134	665	255.4	694	286.9	722	318.5	749	350.6	775	382.7	801	415.3	826	448.3	851	481.9	875	515.2	898	548.7
96000	4314	677	272.3	706	305.1	734	338.1	760	371.1	786	404.2	810	437.7	835	471.7	859	506.2	883	540.9	906	575.4
100000	4494	690	290.1	719	324.1	746	358.5	772	392.4	797	426.6	821	461.2	845	496.1	868	531.5	892	567.4	915	603.0
105000	4719	707	313.8	735	348.9	762	385.0	787	420.5	812	456.2	835	492.0	858	528.2	881	564.8	903	601.9		
110000	4943	724	339.6	751	375.4	778	412.7	803	449.9	827	487.1	850	524.4	872	561.9	894	599.7	916	638.0		
115000	5168	742	367.7	768	403.8	793	441.8	818	480.5	842	519.5	865	558.3	887	597.1	908	636.2				
120000	5393	762	398.3	785	434.5	810	472.8	834	512.7	858	553.2	881	593.7	902	634.0	923	674.4				
125000	5617	782	431.4	804	467.6	827	506.2	850	546.8	874	588.6	896	630.7	918	672.5						
130000	5842	802	466.8	823	503.5	845	542.3	867	583.3	890	625.9	912	669.3								
135000	6067	824	505.1	843	542.1	863	581.0	884	621.9	906	664.7										
140000	6291	845	545.7	864	583.3	883	622.5	903	663.5	923	706.5										
145000	6516	868	589.2	885	627.4	903	667.1	922	708.3												
150000	6741	890	635.5	907	674.2	924	714.2														
155000	6966	913	684.3																		

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.

Designations for Rotation and Discharge of Centrifugal Fans



Notes:

- Direction of rotation is determined from the drive side of the fan.
- Direction of discharge is determined in accordance with the diagrams. Angle of discharge is referred to the vertical axis of the fan and designated in degrees from such standard reference axis. Angle of discharge may be any intermediate angle as required.
- For a fan inverted for ceiling suspension, or side wall mounting, the direction of rotation and discharge is determined when the fan is resting on the floor.

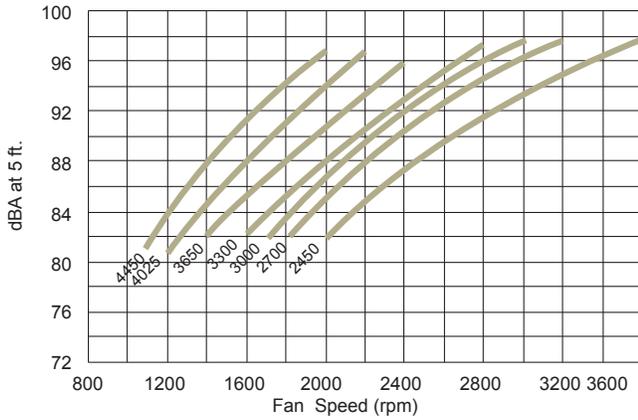
Sound Pressure Levels

- The sound pressure level ratings shown are decibels referred to 10^{-12} watt. The ratings were obtained from tests performed in accordance with AMCA Standard 300.
- Sound pressure levels are calculated per AMCA standards 301 and 303, Installation Type B (free inlet, ducted outlet) and Type D (ducted inlet, ducted outlet).
- Sound pressure levels apply to the normal range of selection for high efficiency, as shown in the capacity tables, and are at 5 ft. from the acoustic center of the fan.
- The sound pressure levels shown are for fans with 110% of nominal diameter wheels. For fans with wheels between 95 and 110% of nominal diameter, use Northern Blower's **Fan-Finder™** computer program to determine the sound levels and performance.
- The sound pressure levels are based on standard construction and operating conditions. All data assumes the ducted outlet and/or ducted inlet and are of the same material and thickness as the fan casing and that any expansion joints are acoustically treated.
- Ratings do not include the effect of fan appurtenances, such as dampers and belt guards, or of air density. The motor and any other auxiliary equipment sound are not included.

Design 4170, Model 45

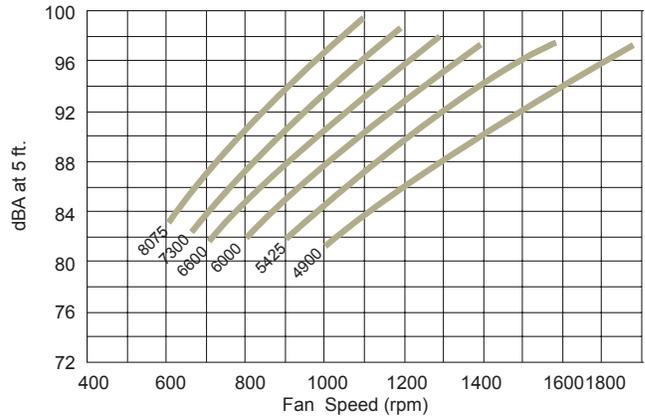
Sizes 2450 to 4450

Free Inlet, Ducted Outlet Sound Pressure Levels



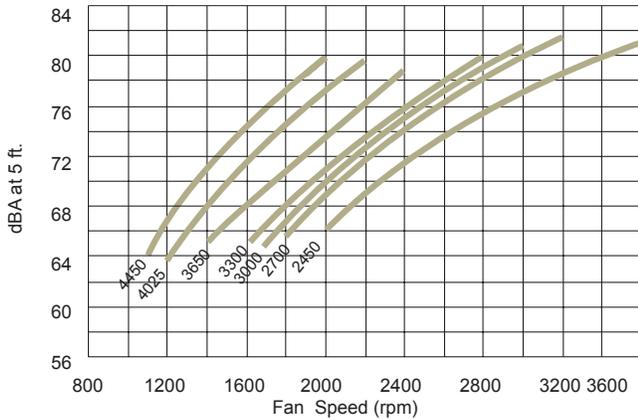
Sizes 4900 to 8075

Free Inlet, Ducted Outlet Sound Pressure Levels



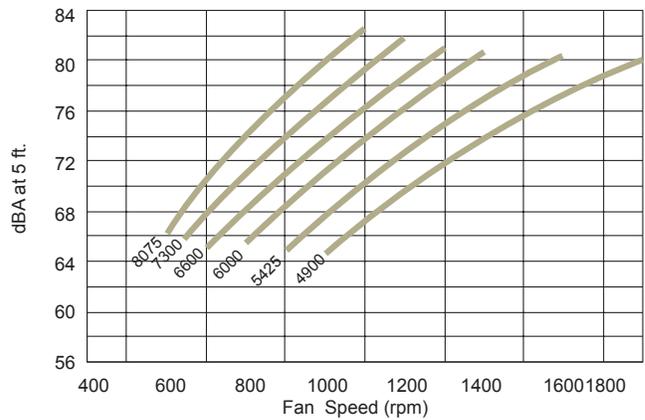
Sizes 2450 to 4450

Ducted Inlet, Ducted Outlet Sound Pressure Levels



Sizes 4900 to 8075

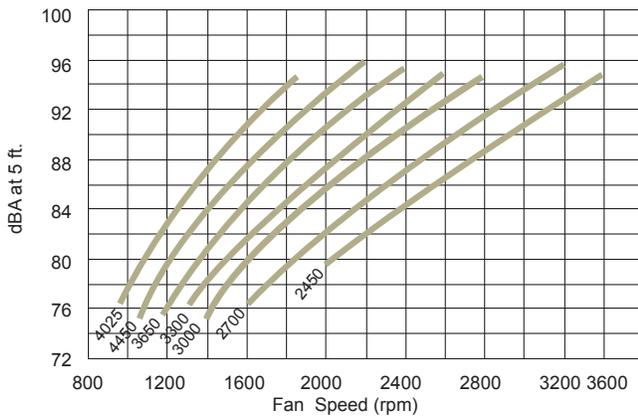
Ducted Inlet, Ducted Outlet Sound Pressure Levels



Design 4270, Model 40

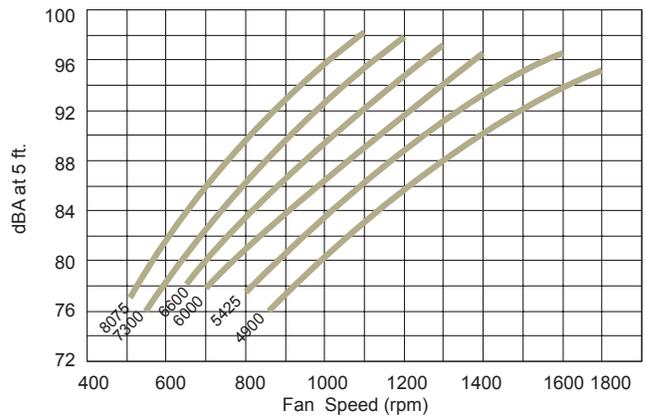
Sizes 2450 to 4450

Free Inlet, Ducted Outlet Sound Pressure Levels



Sizes 4900 to 8075

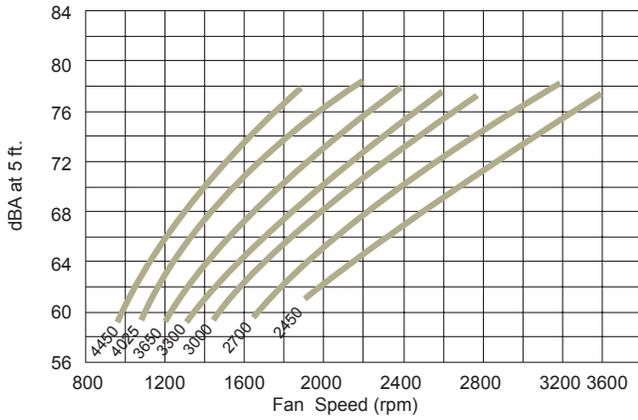
Free Inlet, Ducted Outlet Sound Pressure Levels



Design 4270, Model 40

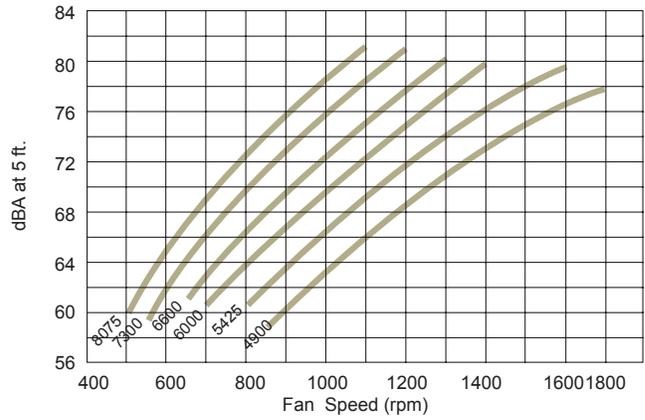
Sizes 2450 to 4450

Ducted Inlet, Ducted Outlet Sound Pressure Levels



Sizes 4900 to 8075

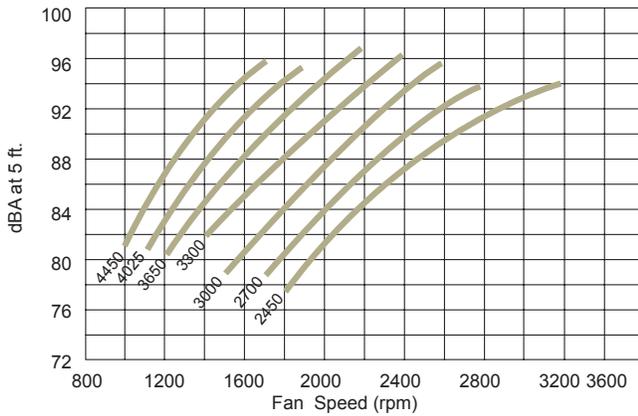
Ducted Inlet, Ducted Outlet Sound Pressure Levels



Design 4370, Model 30

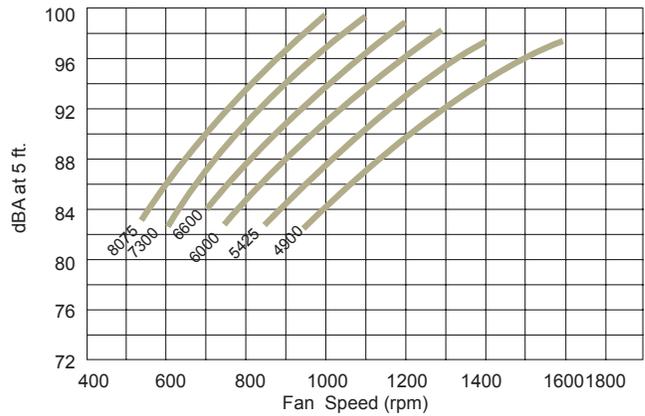
Sizes 2450 to 4450

Free Inlet, Ducted Outlet Sound Pressure Levels



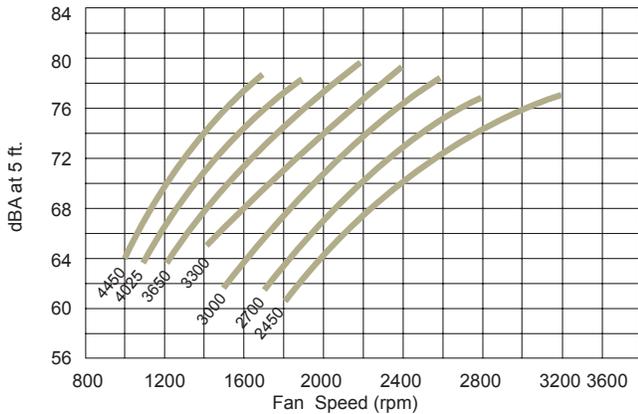
Sizes 4900 to 8075

Free Inlet, Ducted Outlet Sound Pressure Levels



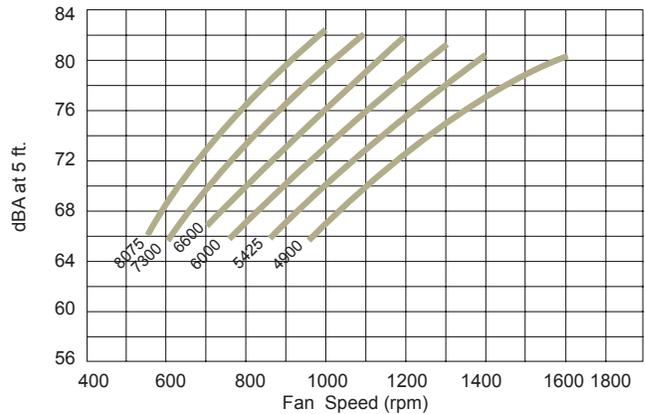
Sizes 2450 to 4450

Ducted Inlet, Ducted Outlet Sound Pressure Levels



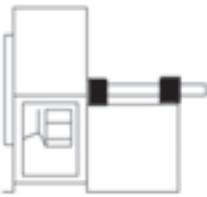
Sizes 4900 to 8075

Ducted Inlet, Ducted Outlet Sound Pressure Levels



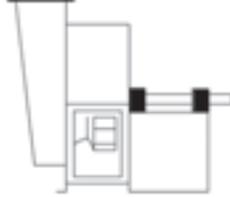
SI - Single Inlet
SW - Single Width

DI - Double Inlet
DW - Double Width



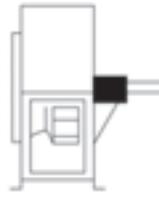
1 SWSI

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



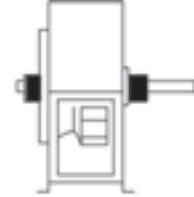
1 SWSI c/w BOX

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



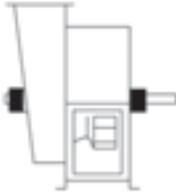
2 SWSI

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



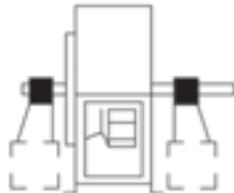
3 SWSI

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



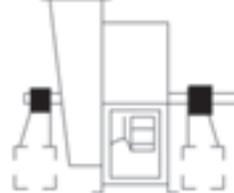
3 SWSI c/w BOX

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



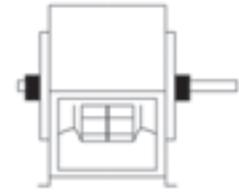
3 SWSI c/w IND. PED.

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



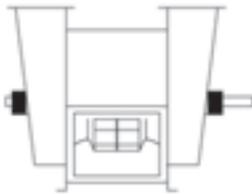
3 SWSI c/w BOX & IND. PED.

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.



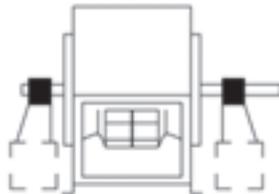
3 DWDI

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



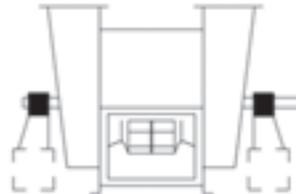
3 DWDI c/w BOXES

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



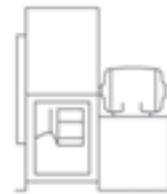
3 DWDI c/w IND. PED.

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



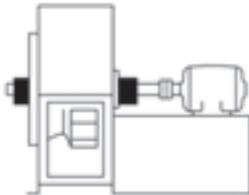
3 DWDI c/w BOXES & IND. PED.

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.



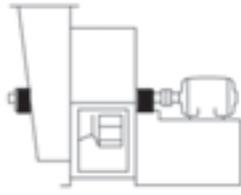
4 SWSI

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



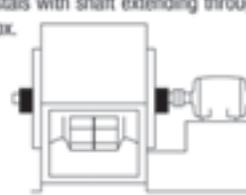
7 SWSI

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



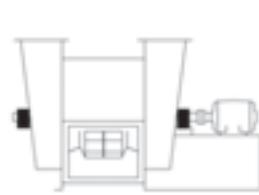
7 SWSI c/w BOX

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



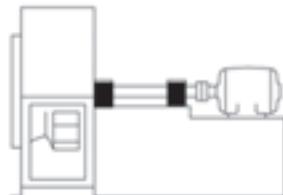
7 DWDI

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



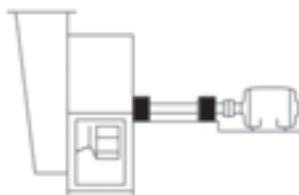
7 DWDI c/w BOXES

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



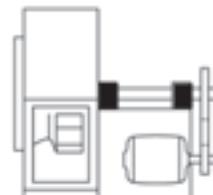
8 SWSI

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



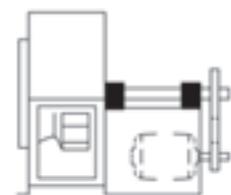
8 SWSI c/w BOX

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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