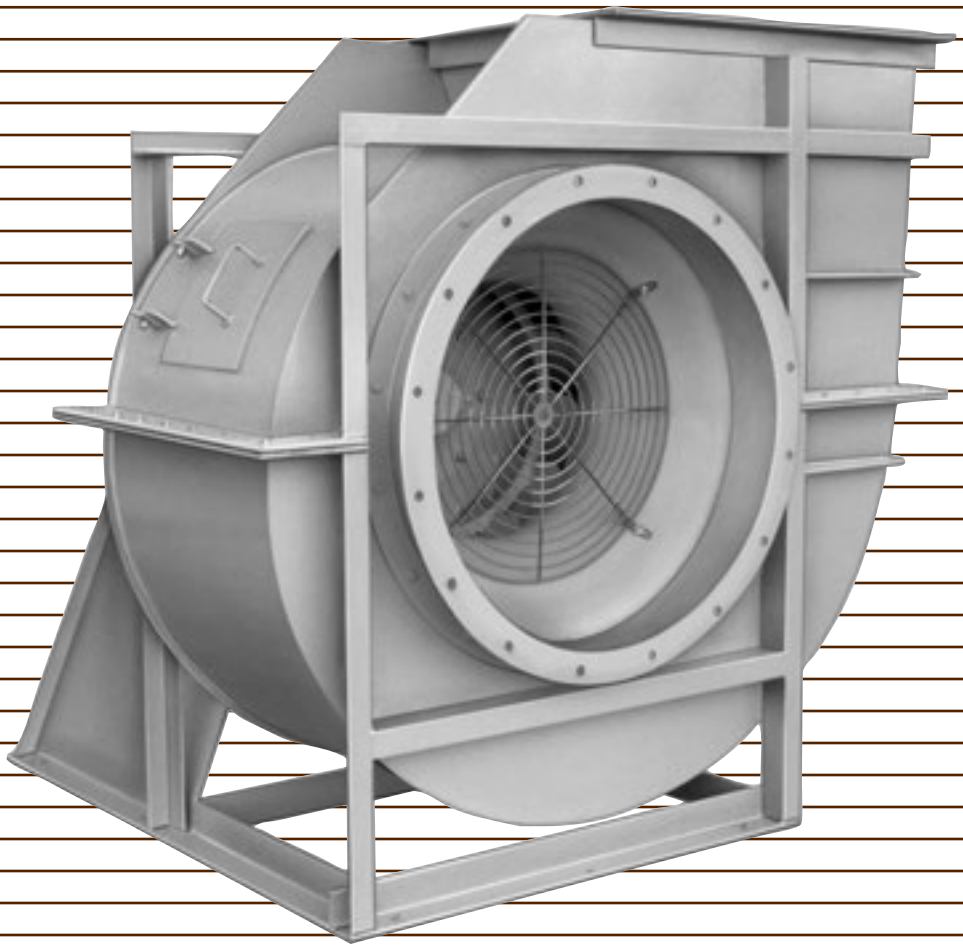
Bulletin 4500-1
December 1996

Series 4500
Centrifugal BCI Fans

Design 4570 • Model 18, 30, & 40



NORTHERN BLOWER®

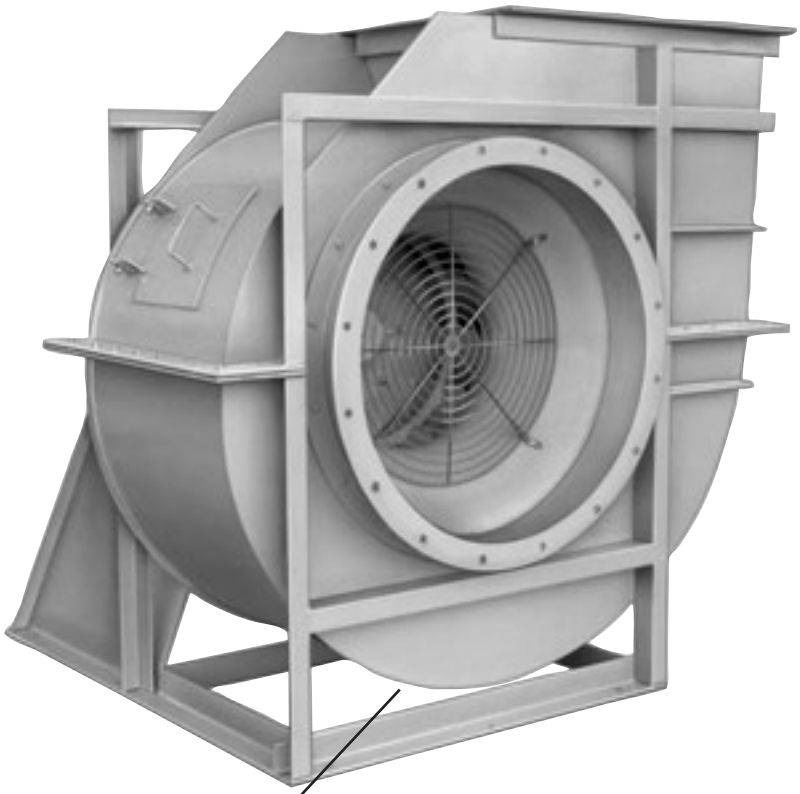
Series 4500
Centrifugal BCI Fans

The Design 4570 Centrifugal Backward Curved Industrial fans are highly efficient and stable operating fans suited for a wide range of rigorous industrial applications. Due to the broad capabilities of the Design 4570 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

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 split pillow-block ball or 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 4900 and larger.

Balancing
Wheel and shaft assemblies are dynamically balanced to ISO 1940 specifications and are interference fit on Models 30 and 40.

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, ball or roller types, split housing, 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
	Models 18, 30, & 40
A/1 - SISW	2700 - 8900
A/8 - SISW	2700 - 8900
A/9 - SISW	2700 - 6000

*Models 18, and 30 only. Refer to pages 21 and 22 for maximum arrangement 9 motor frame sizes.

Capacities

5000 CFM to 250,000 CFM

Pressures and Tip Speeds

Model 18 to 22" S.P. and 17,000 FPM (Size 2700- 8900)
Model 30 to 30" S.P. and 22,000 FPM (Size 2700- 8900)
Model 40 to 40" S.P. and 26,000 FPM (Size 2700- 8900)

Temperatures

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

Design 4570
Centrifugal BCI Wheel

The Northern Blower Backward Curved Industrial (BCI) wheel has 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. Continuously welded steel construction is standard. Available from 27" to 89" diameters.

Standard Features

- Split Pillow Block Ball or Roller Bearings
- Integral Bearing Pedestal
- Punched Flanged Outlet
- Shaft Seal
- Wheel With Anti-thrust Vanes
- Horizontal Split Housing—Size 4900 and up
- Quick Release 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

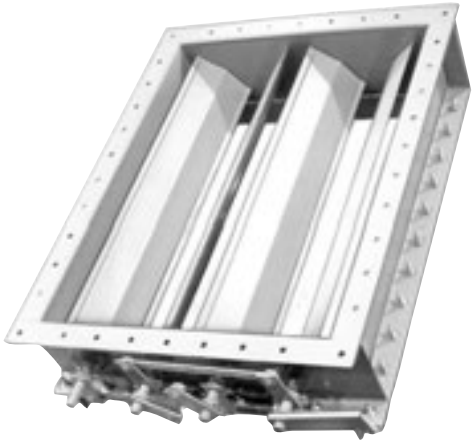
Access door raised 6" beyond scroll surface to provide room for insulation on exterior of fan housing. Insulated door plug surface is flush with inside of housing scroll.

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 7.

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 femperatures 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 2700-4450
  Standard Sizes 4900-8900
- 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 ºF	Elevation (Feet) above Sea Level						
	0	500	1000	2000	3000	4000	5000
-40º	.79	.81	.82	.85	.88	.92	.95
0º	.87	.88	.90	.93	.97	1.00	1.04
40º	.94	.96	.98	1.01	1.05	1.09	1.13
70º	1.00	1.02	1.04	1.08	1.12	1.16	1.20
100º	1.06	1.08	1.10	1.14	1.18	1.22	1.27
140º	1.13	1.15	1.17	1.22	1.26	1.31	1.36
180º	1.21	1.23	1.25	1.30	1.35	1.40	1.45
200º	1.25	1.27	1.29	1.34	1.39	1.44	1.50
250º	1.34	1.36	1.39	1.44	1.49	1.55	1.61
300º	1.43	1.46	1.49	1.54	1.60	1.66	1.72
350º	1.53	1.56	1.58	1.64	1.71	1.77	1.84
400º	1.62	1.65	1.68	1.75	1.81	1.88	1.95
450º	1.72	1.75	1.78	1.85	1.92	1.99	2.06
500º	1.81	1.84	1.88	1.95	2.02	2.10	2.18
600º	2.00	2.04	2.07	2.15	2.23	2.32	2.40
700º	2.19	2.23	2.27	2.35	2.44	2.53	2.63
800º	2.38	2.42	2.46	2.56	2.65	2.75	2.86

Table 2

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

Table 3

Wheel & Shaft Maximum Speeds at 70 ºF			
Size	Design 4570		
	Model 18	Model 30	Model 40
2700	2405	3112	3600
3000	2165	2800	3310
3300	1968	2546	3000
3650	1779	2302	2721
4025	1613	2088	2467
4450	1459	1888	2232
4900	1325	1715	2027
5425	1197	1549	1831
6000	1082	1401	1655
6600	984	1273	1505
7300	890	1151	1360
8075	804	1041	1230
8900	730	944	1116

Table 4

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

Sample Selection of a Belt Drive Fan
Select a 4570 BCI fan for the operating conditions of 36000 CFM at 12" SP, 200°F and 2000 feet elevation.

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

   Equivalent SP = Operating SP x Air Density Corr. Factor
   = 12" x 1.34 = 16"

2) From the Performance Tables, select the fan size. For 36000 CFM at 16" SP an efficient selection would be a size 4025 fan. Interpolating from the Performance Table given on page 12, the selected fan performance is 1638 RPM and 111.3 BHP at standard temperature and pressure.

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

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

$$= \frac{111.3}{1.34} = 83.1 \text{ BHP}$$

4) Multiply the Wheel & Shaft Maximum Speed at 70°F values (Table 3) by the Safe Speed Deration Factors (Table 4). For a 4570 BCI fan, size 4025, Model 30, the maximum speed at 200°F is:

   Max Speed = 2088 x 0.97 = 2025 RPM

   Since the fan selection speed of 1638 RPM is below the maximum allowable speeds, the Model 30 fan is a suitable selection.

Belt Drive

Design 4570 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.

Motor sizes are limited to the maximum horsepower limits listed in the accompanying table.

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

Motor Horsepower Limits *

Size	Design 4570	
	Arrangement 1 Belt Drive	Arrangement 8 Direct Drive
2700	100	50
3000	150	50
3300	150	125
3650	200	125
4025	250	250
4450	300	250
4900	350	350
5425	350	350
6000	350	350
6600	350	500
7300	350	500
8075	350	500
8900	350	500

*Refer to pages 21, and 22 for maximum arrangement 9 motor frame sizes.

Size

2700 SISW

Design 4570 Centrifugal BCI Fans

Wheel Diameter = 27 in.
Outlet Area = 4.19 sq. ft. inside
Maximum BHP = 3.54 x (RPM/1000)^3
Tip Speed, fpm = 7.07 x RPM

Model 18	2405
Model 30	3112
Model 40	3600

Volume	O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	1193	672	1.1	833	2.0	993	3.1														
5500	1313	705	1.2	854	2.1	1003	3.3														
6000	1432	738	1.4	882	2.4	1015	3.5	1150	4.9												
6500	1551	774	1.6	914	2.6	1034	3.8	1160	5.2	1281	6.6										
7000	1671	811	1.9	945	2.9	1059	4.1	1174	5.5	1291	7.0	1400	8.6								
7500	1790	850	2.1	978	3.3	1089	4.5	1193	5.8	1302	7.4	1410	9.1	1510	10.8						
8000	1909	890	2.4	1010	3.6	1121	4.9	1218	6.2	1318	7.8	1421	9.5	1521	11.3	1613	13.1				
8500	2029	931	2.7	1044	4.0	1153	5.3	1247	6.7	1338	8.2	1434	10.0	1531	11.8	1624	13.7	1711	15.7		
9000	2148	972	3.0	1079	4.4	1185	5.8	1278	7.2	1364	8.8	1451	10.5	1543	12.3	1634	14.3	1721	16.4	1803	18.4
9500	2267	1015	3.3	1116	4.9	1217	6.3	1310	7.8	1393	9.4	1474	11.0	1559	12.9	1645	14.9	1732	17.0	1814	19.2
10000	2387	1058	3.7	1154	5.3	1250	6.9	1342	8.4	1424	10.0	1501	11.7	1579	13.6	1660	15.5	1742	17.7	1824	19.9
10500	2506	1101	4.2	1192	5.8	1284	7.5	1374	9.1	1455	10.7	1530	12.4	1604	14.3	1679	16.3	1756	18.4	1835	20.6
11000	2625	1145	4.6	1232	6.3	1319	8.1	1406	9.8	1488	11.5	1561	13.2	1632	15.1	1702	17.0	1774	19.1	1848	21.4
11500	2745	1189	5.1	1272	6.9	1356	8.8	1440	10.5	1520	12.3	1593	14.0	1662	15.9	1728	17.9	1796	20.0	1865	22.2
12000	2864	1233	5.7	1313	7.5	1393	9.4	1473	11.3	1552	13.1	1626	15.0	1693	16.8	1757	18.8	1821	20.9	1886	23.2
12500	2983	1278	6.3	1355	8.1	1431	10.1	1508	12.1	1584	14.0	1658	15.9	1725	17.8	1788	19.9	1850	22.0	1911	24.2
13000	3103	1323	6.9	1397	8.8	1470	10.9	1544	13.0	1618	15.0	1689	16.9	1757	18.9	1820	21.0	1880	23.1	1938	25.3
13500	3222	1368	7.6	1439	9.5	1510	11.7	1581	13.9	1652	16.0	1722	18.0	1789	20.0	1851	22.1	1910	24.2	1967	26.5
14000	3341	1413	8.3	1482	10.3	1550	12.5	1618	14.8	1686	17.0	1755	19.1	1821	21.2	1883	23.3	1942	25.5	1998	27.8
14500	3461	1458	9.1	1525	11.2	1591	13.4	1657	15.7	1722	18.0	1788	20.3	1853	22.5	1916	24.6	1974	26.8	2030	29.1
15000	3580	1504	9.9	1569	12.0	1632	14.3	1696	16.7	1759	19.1	1823	21.5	1886	23.8	1947	26.0	2006	28.2	2061	30.5
15500	3699	1550	10.8	1613	13.0	1674	15.3	1735	17.8	1796	20.3	1858	22.7	1919	25.1	1980	27.4	2038	29.7	2094	32.1
16000	3819	1596	11.7	1657	14.0	1716	16.3	1775	18.9	1834	21.4	1894	24.0	1954	26.5	2013	28.9	2070	31.3	2125	33.6
16500	3938	1641	12.7	1701	15.0	1759	17.4	1816	20.0	1873	22.7	1930	25.3	1988	27.9	2046	30.4	2103	32.9	2157	35.3
17000	4057	1687	13.7	1745	16.1	1802	18.6	1857	21.2	1912	23.9	1968	26.7	2024	29.4	2080	32.0	2135	34.5	2190	37.0

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	2387	1902	22.2	1977	24.4	2049	26.7														
10500	2506	1913	23.0	1987	25.3	2059	27.7	2127	30.1												
11000	2625	1923	23.8	1997	26.2	2069	28.7	2137	31.1	2203	33.6										
11500	2745	1937	24.6	2008	27.1	2079	29.6	2147	32.2	2213	34.7	2278	37.4	2340	40.0						
12000	2864	1953	25.5	2021	28.0	2090	30.6	2157	33.2	2223	35.8	2287	38.6	2350	41.3	2409	44.0				
12500	2983	1973	26.5	2038	29.0	2103	31.6	2169	34.2	2234	36.9	2297	39.7	2360	42.6	2419	45.3	2478	48.2	2535	51.0
13000	3103	1997	27.6	2058	30.1	2120	32.7	2182	35.3	2245	38.1	2308	40.9	2370	43.8	2430	46.7	2488	49.6	2546	52.5
13500	3222	2024	28.8	2081	31.2	2139	33.8	2199	36.5	2259	39.2	2319	42.1	2380	45.0	2440	48.0	2497	50.9	2555	54.0
14000	3341	2053	30.1	2107	32.5	2162	35.1	2218	37.7	2276	40.5	2334	43.3	2392	46.3	2451	49.3	2508	52.3	2564	55.4
14500	3461	2084	31.5	2136	33.9	2188	36.4	2241	39.1	2295	41.8	2351	44.7	2406	47.6	2463	50.6	2519	53.8	2575	56.9
15000	3580	2114	32.9	2166	35.4	2217	37.9	2267	40.5	2318	43.3	2370	46.1	2423	49.0	2477	52.1	2532	55.2	2586	58.4
15500	3699	2146	34.5	2196	36.9	2246	39.5	2295	42.1	2344	44.8	2393	47.6	2444	50.6	2495	53.6	2547	56.7	2600	59.9
16000	3819	2178	36.1	2228	38.6	2276	41.1	2324	43.8	2371	46.5	2419	49.3	2466	52.2	2515	55.2	2565	58.3	2615	61.5
16500	3938	2210	37.8	2259	40.3	2308	42.9	2355	45.6	2400	48.3	2446	51.1	2492	54.0	2538	57.0	2586	60.1	2633	63.2
17000	4057	2242	39.6	2292	42.1	2339	44.7	2385	47.4	2431	50.2	2475	53.0	2520	55.9	2564	58.8	2609	61.9	2654	65.1
17500	4177	2273	41.4	2323	44.0	2372	46.7	2417	49.4	2462	52.1	2506	55.0	2548	57.9	2592	60.9	2634	63.9	2678	67.0
18000	4296	2306	43.4	2356	46.0	2403	48.7	2449	51.4	2494	54.2	2536	57.0	2579	60.0	2620	62.9	2662	66.0	2704	69.1
18500	4415	2338	45.3	2387	48.1	2435	50.8	2481	53.6	2525	56.4	2568	59.3	2609	62.2	2651	65.2	2691	68.2	2732	71.4
19000	4535	2371	47.4	2420	50.2	2467	53.0	2513	55.8	2557	58.7	2599	61.5	2641	64.5	2681	67.5	2721	70.6	2760	73.7
19500	4654	2404	49.5	2452	52.4	2499	55.3	2545	58.1	2588	61.0	2632	64.0	2672	66.9	2713	70.0	2751	73.0	2791	76.2
20000	4773	2438	51.7	2485	54.6	2531	57.6	2576	60.5	2621	63.5	2663	66.4	2704	69.4	2744	72.5	2783	75.6	2821	78.7
21000	5012	2508	56.1	2553	59.3	2597	62.4	2641	65.5	2685	68.6	2726	71.7	2768	74.8	2807	77.9	2846	81.0	2883	84.2
22000	5251	2580	60.7	2622	64.2	2665	67.6	2707	70.8	2749	74.1	2791	77.3	2831	80.5	2871	83.7	2909	86.9	2947	90.2
23000	5489	2654	65.7	2694	69.2	2735	72.8	2775	76.3	2816	79.7	2856	83.2	2895	86.5	2935	89.9	2973	93.2	3011	96.6

Volume	O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15000	3580	2694	64.9	2798	71.5	2897	78.2	2993	84.9												
15500	3699	2705	66.5	2808	73.3	2908	80.2	3003	87.0	3095	93.9										
16000	3819	2717	68.1	2818	75.0	2917	81.9	3013	89.1	3106	96.2	3193	103.2								
16500	3938	2731	69.8	2829	76.7	2927	83.8	3022	91.0	3114	98.3	3205	105.7	3289	112.9						
17000	4057	2748	71.7	2843	78.6	2939	85.8	3032	93.1	3124	100.5	3213	107.9	3300	115.6	3382	123.0				
17500	4177	2767	73.6	2858	80.5	2951	87.7	3043	95.1	3135	102.7	3222	110.3	3308	117.9	3393	125.9	3472	133.4		
18000	4296	2788	75.7	2876	82.5	2965	89.7	3055	97.1	3144	104.8	3233	112.7	3318	120.4	3401	128.3	3484	136.4	3560	144.1
18500	4415	2813	77.9	2896	84.7	2982	91.9	3069	99.3	3156	107.0	3242	114.9	3328	122.9	3411	130.9	3491	139.0	3572	147.3
19000	4535	2839	80.2	2919	87.0	3000	94.1	3084	101.6	3170	109.4	3254	117.2	3338	125.3	3421	133.5	3502	141.8	3579	150.0
19500	4654	2867	82.7	2944	89.5	3022	96.5	3102	103.9	3184	111.6	3267	119.6	3350	127.8	3430	136.0	3511	144.5	3590	153.0
20000	4773	2896	85.2	2970	92.0	3045	99.1	3122	106.5	3201	114.2	3280	122.1	3361	130.3	3443	138.8	3521	147.1	3599	155.8
21000	5012	2956	90.8	3027	97.6	3098	104.6	3170	112.0	3241	119.5	3315	127.4	3391	135.6	3467	144.1	3543	152.6		
22000	5251	3019	96.8	3088	103.7	3156	110.7	3223	118.1	3290	125.6	3358	133.4	3428	141.5	3499	149.9	3571	158.5		
23000	5489	3083	103.4	3151	110.2	3216	117.3	3281	124.7	3346	132.3	3409	140.0	3474	148.0	3539	156.3				
24000	5728	3146	110.3	3215	117.4	3279	124.5	3342	131.8	3404	139.5	3465	147.2	3526	155.2	3588	163.5				

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.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 100 HP, Direct Drive Arrangement 8 - 50 HP. Refer to factory for motor horsepower exceeding these limits.

NORTHERN BLOWER®

Wheel Diameter = 30 in.
Outlet Area = 5.17 sq. ft. inside
Maximum BHP = 5.99 x (RPM/1000)^3
Tip Speed, fpm = 7.85 x RPM

Model 18	2165
Model 30	2800
Model 40	3310

Size

3000 SISW

Design 4570 Centrifugal BCI Fans

Volume	O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6000	1160	597	1.2	745	2.4	890	3.7														
6500	1257	620	1.4	758	2.5	898	3.9														
7000	1353	644	1.6	777	2.7	906	4.2	1029	5.8												
7500	1450	669	1.8	798	3.0	916	4.4	1036	6.1												
8000	1547	695	2.0	821	3.2	930	4.7	1044	6.4	1153	8.2										
8500	1643	722	2.2	844	3.5	948	5.0	1054	6.7	1160	8.5	1258	10.5								
9000	1740	750	2.5	868	3.9	968	5.3	1066	7.0	1168	8.9	1265	10.9								
9500	1837	779	2.7	891	4.2	991	5.7	1082	7.4	1177	9.3	1273	11.4	1363	13.6						
10000	1933	808	3.0	915	4.6	1014	6.1	1101	7.8	1189	9.7	1281	11.8	1370	14.1	1454	16.4				
10500	2030	838	3.3	940	5.0	1038	6.6	1122	8.3	1205	10.2	1291	12.3	1378	14.6	1462	17.0	1540	19.3		
11000	2126	868	3.6	966	5.4	1061	7.1	1145	8.8	1223	10.7	1303	12.8	1386	15.1	1469	17.6	1547	20.0	1621	22.5
11500	2223	899	4.0	992	5.8	1085	7.6	1168	9.4	1244	11.3	1319	13.4	1397	15.7	1477	18.2	1554	20.7	1629	23.3
12000	2320	930	4.3	1019	6.3	1108	8.1	1192	10.0	1266	11.9	1337	14.0	1410	16.3	1487	18.8	1562	21.4	1636	24.0
12500	2416	962	4.7	1047	6.7	1133	8.7	1215	10.6	1288	12.6	1358	14.7	1426	16.9	1498	19.4	1571	22.0	1644	24.8
13000	2513	993	5.2	1075	7.2	1158	9.3	1238	11.3	1312	13.3	1379	15.4	1445	17.7	1512	20.1	1581	22.7	1652	25.5
13500	2610	1025	5.6	1104	7.7	1183	9.9	1262	12.0	1335	14.0	1402	16.2	1465	18.5	1529	20.9	1594	23.5	1662	26.3
14000	2706	1057	6.1	1134	8.3	1209	10.5	1286	12.7	1359	14.8	1425	17.0	1487	19.3	1548	21.7	1610	24.4	1674	27.1
14500	2803	1089	6.7	1163	8.9	1236	11.2	1310	13.5	1382	15.7	1448	17.9	1509	20.2	1568	22.7	1627	25.3	1687	28.0
15000	2900	1122	7.2	1193	9.5	1264	11.9	1335	14.3	1406	16.6	1471	18.8	1533	21.2	1590	23.6	1647	26.2	1704	29.0
15500	2996	1154	7.8	1224	10.1	1292	12.6	1361	15.1	1429	17.5	1495	19.8	1555	22.2	1612	24.7	1668	27.3	1722	30.0
16000	3093	1187	8.5	1254	10.8	1320	13.4	1387	15.9	1454	18.4	1518	20.8	1579	23.2	1636	25.8	1689	28.4	1742	31.1
16500	3190	1220	9.1	1285	11.5	1349	14.1	1413	16.8	1478	19.4	1542	21.9	1602	24.3	1658	26.9	1712	29.5	1763	32.3
17000	3286	1253	9.8	1316	12.3	1379	15.0	1441	17.7	1503	20.4	1566	23.0	1626	25.5	1682	28.1	1735	30.8	1786	33.5
17500	3383	1286	10.6	1348	13.1	1408	15.8	1468	18.6	1529	21.4	1590	24.1	1649	26.7	1705	29.3	1758	32.0	1808	34.8
18000	3480	1319	11.4	1379	13.9	1438	16.7	1496	19.6	1555	22.5	1614	25.3	1673	28.0	1729	30.7	1782	33.4	1832	36.2

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	2320	1706	26.8	1774	29.5																
12500	2416	1714	27.6	1781	30.4	1846	33.3														
13000	2513	1722	28.4	1789	31.3	1853	34.3	1915	37.2												
13500	2610	1730	29.2	1797	32.2	1861	35.3	1922	38.3	1982	41.3										
14000	2706	1739	30.0	1804	33.1	1868	36.2	1930	39.4	1989	42.5	2047	45.6								
14500	2803	1750	30.9	1813	34.0	1875	37.1	1937	40.3	1997	43.6	2054	46.8	2110	50.1						
15000	2900	1763	31.9	1823	34.9	1884	38.1	1944	41.3	2004	44.7	2062	48.1	2117	51.4	2171	54.8	2224	58.2		
15500	2996	1778	32.9	1836	35.9	1894	39.1	1953	42.4	2011	45.8	2069	49.2	2125	52.7	2178	56.1	2232	59.7	2282	63.2
16000	3093	1796	34.0	1850	37.0	1906	40.2	1963	43.5	2020	46.9	2076	50.4	2132	53.9	2186	57.5	2238	61.0	2290	64.7
16500	3190	1815	35.2	1867	38.2	1920	41.3	1974	44.6	2030	48.1	2085	51.6	2139	55.1	2193	58.8	2246	62.5	2296	66.1
17000	3286	1836	36.4	1885	39.4	1936	42.6	1988	45.8	2041	49.2	2095	52.8	2148	56.4	2200	60.1	2253	63.9	2304	67.6
17500	3383	1857	37.7	1905	40.7	1954	43.9	2003	47.1	2054	50.5	2105	54.1	2157	57.7	2209	61.4	2260	65.2	2312	69.1
18000	3480	1879	39.1	1926	42.1	1973	45.3	2020	48.5	2069	51.9	2118	55.4	2168	59.0	2219	62.8	2269	66.6	2319	70.5
19000	3673	1925	42.1	1971	45.2	2015	48.3	2060	51.6	2104	54.9	2149	58.4	2195	62.0	2242	65.8	2289	69.6	2337	73.6
20000	3866	1972	45.4	2017	48.5	2060	51.6	2103	54.9	2145	58.3	2186	61.7	2229	65.3	2272	69.0	2315	72.8	2360	76.8
21000	4060	2018	48.9	2063	52.1	2106	55.3	2148	58.6	2189	62.0	2228	65.4	2268	69.0	2308	72.7	2348	76.5	2389	80.4
22000	4253	2065	52.7	2110	55.9	2153	59.2	2194	62.5	2234	66.0	2272	69.5	2311	73.1	2349	76.8	2387	80.5	2425	84.4
23000	4446	2112	56.6	2156	60.0	2199	63.4	2240	66.8	2280	70.3	2319	73.9	2356	77.5	2393	81.2	2429	85.0	2465	88.9
24000	4640	2160	60.8	2203	64.3	2246	67.9	2287	71.4	2326	74.9	2365	78.6	2401	82.2	2438	86.0	2473	89.8	2508	93.7
25000	4833	2210	65.1	2252	68.8	2293	72.5	2334	76.3	2373	79.9	2411	83.6	2448	87.3	2484	91.1	2519	95.0	2553	98.8
26000	5026	2261	69.6	2301	73.6	2341	77.4	2380	81.3	2420	85.1	2457	88.9	2494	92.7	2530	96.5	2565	100.5	2598	104.4
27000	5220	2313	74.2	2352	78.4	2391	82.6	2429	86.5	2467	90.5	2504	94.5	2540	98.4	2577	102.4	2611	106.3	2646	110.4
28000	5413	2367	79.1	2404	83.5	2441	87.8	2478	92.1	2515	96.2	2551	100.3	2587	104.4	2623	108.4	2657	112.5	2691	116.6

Volume	O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18000	3480	2416	78.4	2510	86.4	2600	94.5														
18500	3576	2424	80.1	2518	88.2	2607	96.4	2693	104.7												
19000	3673	2432	81.6	2525	89.9	2615	98.4	2702	106.9	2784	115.3										
19500	3770	2440	83.3	2532	91.7	2621	100.2	2707	108.8	2791	117.6	2872	126.4								
20000	3866	2450	85.0	2541	93.5	2630	102.2	2715	111.0	2797	119.7	2877	128.6								
20500	3963	2461	86.7	2549	95.2	2636	104.0	2722	112.9	2805	122.0	2885	131.1	2962	140.1						
21000	4060	2473	88.6	2559	97.1	2645	105.9	2729	115.0	2811	124.1	2892	133.3	2971	142.8	3044	151.9				
21500	4156	2487	90.4	2569	98.9	2653	107.8	2737	117.0	2820	126.4	2899	135.7	2976	145.1	3052	154.7	3124	164.1		
22000	4253	2502	92.5	2582	101.0	2664	109.9	2745	119.0	2826	128.4	2906	138.0	2984	147.8	3058	157.2	3131	167.0	3202	176.7
22500	4350	2519	94.6	2596	103.0	2675	111.9	2755	121.2	2835	130.7	2913	140.3	2990	150.0	3066	160.0	3138	169.7	3208	179.6
23000	4446	2538	96.9	2612	105.3	2688	114.1	2765	123.3	2843	132.8	2921	142.6	2998	152.6	3072	162.4	3145	172.5	3216	182.6
24000	4640	2577	101.7	2647	110.1	2717	118.8	2790	128.0	2863	137.4	2938	147.3	3014	157.5	3086	167.6	3159	177.9	3230	188.5
25000	4833	2620	106.9	2686	115.3	2753	124.1	2820	133.1	2889	142.5	2960	152.3	3032	162.6	3102	172.8	3173	183.3	3245	194.2
26000	5026	2664	112.5	2728	120.9	2791	129.6	2855	138.7	2920	148.0	2986	157.7	3053	167.9	3122	178.3	3190	188.9	3259	199.9
28000	5413	2756	124.9	2818	133.5	2877	142.2	2936	151.2	2995	160.6	3053	170.2	3112	180.0	3173	190.4	3235	201.0	3297	211.9

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.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 150 HP, Direct Drive Arrangement 8 - 50 HP. Refer to factory for motor horsepower exceeding these limits.

Size

3300 SISW

Design 4570 Centrifugal BCI Fans

Wheel Diameter = 33 in.
Outlet Area = 6.26 sq. ft. inside
Maximum BHP = 9.65 x (RPM/1000)^3
Tip Speed, fpm = 8.64 x RPM

Model 18	1968
Model 30	2546
Model 40	3000

Volume	O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1278	569	1.8	693	3.1	818	4.8														
8500	1358	587	1.9	707	3.3	824	5.1	936	7.0												
9000	1438	605	2.1	723	3.6	831	5.3	942	7.3												
9500	1518	625	2.3	740	3.8	841	5.5	947	7.6	1046	9.7										
10000	1598	645	2.6	757	4.1	853	5.8	953	7.9	1051	10.1										
10500	1678	665	2.8	775	4.4	868	6.2	961	8.2	1057	10.5	1146	12.9								
11000	1757	686	3.0	793	4.7	884	6.5	971	8.5	1063	10.9	1152	13.4	1234	15.9						
11500	1837	708	3.3	811	5.1	901	6.9	984	8.9	1070	11.3	1157	13.8	1239	16.4						
12000	1917	730	3.6	829	5.5	918	7.3	998	9.4	1079	11.7	1163	14.2	1245	16.9	1321	19.7				
12500	1997	752	3.9	847	5.9	936	7.8	1014	9.8	1090	12.1	1170	14.7	1251	17.5	1326	20.3	1398	23.1		
13000	2077	775	4.2	866	6.3	954	8.2	1030	10.3	1103	12.6	1179	15.2	1257	18.0	1332	20.9	1403	23.8		
13500	2157	798	4.5	885	6.7	971	8.7	1047	10.8	1117	13.2	1189	15.7	1263	18.5	1337	21.5	1409	24.5	1476	27.6
14000	2237	821	4.9	905	7.1	989	9.3	1065	11.4	1133	13.7	1201	16.3	1272	19.1	1344	22.1	1414	25.2	1481	28.3
14500	2317	845	5.2	926	7.6	1007	9.8	1083	12.0	1150	14.4	1215	16.9	1282	19.7	1351	22.7	1420	25.8	1487	29.1
15000	2397	868	5.6	946	8.0	1025	10.4	1100	12.6	1167	15.0	1230	17.6	1293	20.3	1359	23.3	1426	26.5	1493	29.8
16000	2556	916	6.5	989	9.0	1063	11.6	1135	14.0	1202	16.5	1263	19.0	1321	21.8	1381	24.8	1443	27.9	1505	31.3
17000	2716	964	7.5	1033	10.1	1102	12.8	1171	15.5	1237	18.0	1297	20.7	1354	23.5	1409	26.4	1465	29.6	1523	32.9
18000	2876	1012	8.6	1078	11.3	1143	14.2	1208	17.0	1273	19.8	1332	22.5	1388	25.3	1440	28.3	1492	31.4	1545	34.7
19000	3036	1061	9.8	1124	12.6	1185	15.6	1247	18.7	1308	21.6	1368	24.4	1423	27.3	1474	30.3	1524	33.5	1573	36.8
20000	3195	1111	11.1	1170	14.0	1228	17.2	1286	20.4	1345	23.5	1403	26.5	1458	29.5	1509	32.6	1557	35.8	1604	39.1
21000	3355	1160	12.5	1217	15.6	1272	18.8	1328	22.2	1383	25.5	1439	28.8	1493	31.9	1544	35.1	1592	38.3	1638	41.7
22000	3515	1210	14.1	1264	17.2	1317	20.6	1370	24.2	1423	27.7	1476	31.1	1528	34.4	1579	37.7	1627	41.0	1673	44.4

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15000	2397	1557	33.2	1618	36.6	1677	40.0														
15500	2476	1562	34.0	1623	37.5	1682	41.0														
16000	2556	1568	34.8	1629	38.3	1687	41.9	1744	45.6												
16500	2636	1574	35.6	1635	39.2	1693	42.9	1749	46.6	1803	50.4										
17000	2716	1582	36.5	1641	40.1	1699	43.9	1755	47.7	1809	51.5	1861	55.4								
17500	2796	1590	37.3	1647	41.0	1704	44.8	1760	48.7	1815	52.7	1867	56.6	1917	60.5						
18000	2876	1599	38.3	1655	42.0	1711	45.8	1766	49.7	1820	53.7	1873	57.8	1923	61.8	1972	65.9				
19000	3036	1623	40.3	1674	44.0	1726	47.8	1779	51.8	1832	56.0	1884	60.2	1934	64.3	1983	68.6	2031	72.9	2077	77.1
20000	3195	1651	42.6	1698	46.3	1746	50.1	1796	54.1	1846	58.3	1896	62.5	1945	66.8	1995	71.3	2042	75.7	2088	80.1
21000	3355	1682	45.2	1727	48.8	1771	52.6	1817	56.6	1864	60.7	1911	65.0	1958	69.4	2006	73.9	2053	78.4	2099	83.1
22000	3515	1716	48.0	1758	51.6	1800	55.4	1843	59.4	1886	63.4	1930	67.7	1975	72.1	2020	76.6	2065	81.2	2111	86.0
23000	3675	1751	51.0	1792	54.7	1832	58.5	1873	62.4	1913	66.5	1954	70.7	1996	75.1	2038	79.6	2081	84.2	2125	89.0
24000	3834	1786	54.2	1827	58.0	1866	61.8	1905	65.7	1943	69.8	1982	74.0	2021	78.3	2060	82.9	2100	87.4	2142	92.2
25000	3994	1820	57.7	1861	61.5	1901	65.4	1938	69.3	1976	73.4	2013	77.7	2049	81.9	2087	86.4	2124	91.0	2162	95.7
26000	4154	1855	61.3	1896	65.2	1935	69.2	1973	73.2	2009	77.3	2045	81.5	2080	85.9	2116	90.3	2151	94.9	2187	99.6
27000	4314	1891	65.2	1931	69.2	1970	73.2	2008	77.3	2044	81.5	2079	85.7	2114	90.1	2147	94.5	2182	99.1	2215	103.7
28000	4473	1926	69.2	1966	73.4	2005	77.5	2042	81.6	2079	85.9	2113	90.2	2147	94.5	2181	99.1	2213	103.6	2246	108.3
29000	4633	1962	73.4	2002	77.6	2040	82.0	2078	86.2	2113	90.5	2149	94.9	2182	99.3	2215	103.8	2247	108.4	2279	113.1
30000	4793	2000	77.7	2038	82.2	2075	86.6	2112	91.0	2149	95.4	2183	99.8	2217	104.4	2249	108.9	2281	113.6	2312	118.3
31000	4953	2037	82.1	2075	86.8	2112	91.5	2148	96.0	2183	100.5	2218	105.1	2251	109.6	2285	114.3	2315	118.9	2347	123.8
32000	5113	2077	86.8	2112	91.6	2148	96.4	2184	101.2	2218	105.8	2253	110.5	2286	115.2	2319	119.9	2351	124.7	2381	129.5
33000	5272	2116	91.4	2151	96.6	2186	101.6	2220	106.5	2254	111.4	2288	116.2	2321	121.0	2354	125.8	2385	130.6	2416	135.5
34000	5432	2157	96.3	2190	101.6	2223	106.8	2257	112.1	2290	117.0	2324	122.1	2356	127.0	2388	132.0	2420	136.9	2450	141.9

Volume	O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22000	3515	2199	95.6	2285	105.4	2367	115.3														
22500	3595	2205	97.2	2290	107.1	2371	117.1	2450	127.1												
23000	3675	2211	98.8	2295	108.9	2377	119.1	2456	129.4	2531	139.6										
23500	3755	2217	100.4	2301	110.6	2382	120.9	2460	131.3	2536	141.8										
24000	3834	2224	102.1	2307	112.3	2388	122.8	2467	133.5	2542	144.1	2614	154.7								
24500	3914	2232	103.8	2313	114.1	2393	124.7	2471	135.4	2546	146.2	2620	157.2	2690	168.0						
25000	3994	2240	105.6	2320	115.9	2399	126.6	2477	137.5	2553	148.5	2624	159.4	2695	170.5						
25500	4074	2250	107.5	2328	117.8	2405	128.5	2482	139.4	2557	150.5	2630	161.8	2701	173.2	2768	184.3				
26000	4154	2260	109.4	2336	119.7	2412	130.4	2488	141.5	2563	152.9	2635	164.1	2705	175.4	2774	187.1	2840	198.5		
27000	4314	2284	113.5	2355	123.7	2428	134.5	2501	145.6	2574	157.1	2647	168.8	2716	180.4	2784	192.2	2851	204.3	2914	216.0
28000	4473	2312	118.0	2378	128.2	2447	138.8	2516	149.9	2587	161.5	2658	173.4	2727	185.4	2794	197.4	2861	209.8	2925	221.9
29000	4633	2342	122.9	2405	133.0	2469	143.6	2535	154.6	2602	166.1	2671	178.0	2739	190.4	2805	202.6	2871	215.1	2936	227.9
30000	4793	2373	128.0	2434	138.1	2495	148.7	2558	159.8	2621	171.1	2686	183.0	2752	195.3	2818	207.9	2882	220.5	2946	233.5
31000	4953	2407	133.6	2465	143.7	2524	154.1	2583	165.1	2643	176.6	2705	188.3	2767	200.5	2831	213.2	2894	226.0	2957	239.0
32000	5113	2440	139.3	2498	149.6	2555	160.1	2611	170.9	2668	182.2	2727	194.1	2786	206.2	2847	218.7	2908	231.8	2969	244.8
33000	5272	2475	145.5	2531	155.7	2587	166.3	2642	177.3	2696	188.5	2751	200.1	2808	212.3	2865	224.7	2924	237.6	2984	251.0
34000	5432	2510	152.0	2566	162.4	2620	172.9	2673	183.8	2726	195.1	2779	206.7	2832	218.7	2887	231.2	2943	243.9	3000	257.2

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.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 150 HP, Direct Drive Arrangement 8 - 125 HP. Refer to factory for motor horsepower exceeding these limits.

Wheel Diameter = 36.5 in.
Outlet Area = 7.66 sq. ft. inside
Maximum BHP = 15.97 x (RPM/1000)^3
Tip Speed, fpm = 9.56 x RPM

Model 18	1779
Model 30	2302
Model 40	2721

Size

3650 SISW

Design 4570 Centrifugal BCI Fans

Volume	O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9000	1175	494	1.9	614	3.5	733	5.5														
10000	1306	520	2.2	631	3.9	741	6.0														
11000	1437	547	2.6	653	4.3	751	6.5	851	8.9												
12000	1567	576	3.0	679	4.9	767	7.0	860	9.5	948	12.2										
13000	1698	606	3.5	705	5.5	788	7.6	871	10.1	957	13.0	1037	15.9								
14000	1828	638	4.0	731	6.2	813	8.4	888	10.9	967	13.7	1046	16.8	1120	20.0						
15000	1959	671	4.5	758	6.9	839	9.2	910	11.7	980	14.6	1055	17.7	1128	21.0	1197	24.5				
16000	2090	704	5.2	785	7.7	865	10.2	934	12.7	999	15.5	1067	18.7	1137	22.1	1205	25.6	1269	29.3		
17000	2220	738	5.8	815	8.6	891	11.2	959	13.8	1022	16.7	1083	19.8	1148	23.2	1214	26.8	1277	30.6	1338	34.4
18000	2351	773	6.6	845	9.5	917	12.3	985	15.0	1046	17.9	1104	21.0	1163	24.4	1224	28.1	1286	32.0	1347	35.9
19000	2481	808	7.4	876	10.4	945	13.5	1011	16.3	1072	19.3	1127	22.4	1182	25.8	1239	29.4	1297	33.3	1356	37.4
20000	2612	843	8.4	908	11.5	973	14.7	1038	17.8	1098	20.8	1152	24.0	1205	27.4	1257	31.0	1311	34.8	1366	39.0
21000	2743	879	9.4	941	12.6	1002	16.0	1064	19.2	1124	22.4	1178	25.6	1229	29.1	1278	32.7	1328	36.5	1380	40.6
22000	2873	915	10.5	974	13.8	1033	17.3	1092	20.8	1150	24.1	1204	27.5	1254	30.9	1302	34.6	1349	38.4	1397	42.5
23000	3004	951	11.6	1008	15.1	1064	18.8	1120	22.4	1176	25.9	1230	29.4	1280	32.9	1327	36.6	1372	40.5	1417	44.5
24000	3134	987	12.9	1042	16.5	1095	20.3	1149	24.1	1203	27.9	1256	31.5	1306	35.1	1352	38.8	1397	42.7	1440	46.8
25000	3265	1024	14.3	1076	18.0	1128	21.9	1179	25.9	1231	29.9	1282	33.6	1332	37.4	1378	41.2	1422	45.1	1464	49.2
26000	3395	1060	15.8	1111	19.5	1160	23.6	1210	27.8	1260	31.9	1309	35.9	1358	39.8	1404	43.7	1447	47.7	1488	51.8
27000	3526	1097	17.4	1146	21.3	1194	25.4	1241	29.7	1289	34.0	1337	38.3	1384	42.3	1430	46.4	1473	50.4	1514	54.6
28000	3657	1134	19.1	1181	23.1	1227	27.3	1273	31.8	1319	36.3	1365	40.7	1411	45.0	1456	49.2	1499	53.3	1540	57.6
29000	3787	1171	20.9	1217	25.0	1261	29.4	1305	33.9	1349	38.6	1394	43.2	1438	47.7	1482	52.1	1525	56.4	1566	60.7

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18000	2351	1404	40.0	1460	44.1																
19000	2481	1413	41.6	1468	45.9	1522	50.3	1572	54.6												
20000	2612	1422	43.3	1477	47.7	1530	52.2	1580	56.7	1629	61.2										
21000	2743	1432	45.0	1485	49.5	1538	54.1	1588	58.7	1637	63.5	1685	68.3	1731	73.1						
22000	2873	1446	46.8	1496	51.3	1547	56.0	1596	60.8	1645	65.7	1693	70.6	1739	75.6	1783	80.5				
23000	3004	1463	48.8	1510	53.3	1558	58.0	1606	62.9	1654	67.9	1701	73.0	1747	78.1	1791	83.2	1835	88.5	1876	93.6
24000	3134	1483	51.1	1526	55.5	1571	60.2	1617	65.1	1663	70.1	1710	75.3	1755	80.6	1799	85.9	1843	91.3	1884	96.6
25000	3265	1505	53.5	1546	58.0	1588	62.6	1631	67.4	1675	72.5	1719	77.7	1764	83.1	1807	88.5	1850	94.1	1893	99.6
26000	3395	1529	56.1	1568	60.6	1608	65.2	1648	70.0	1689	75.0	1732	80.3	1774	85.7	1817	91.2	1859	96.8	1901	102.6
27000	3526	1553	58.9	1592	63.4	1630	68.0	1668	72.9	1707	77.8	1746	83.0	1787	88.4	1828	94.0	1868	99.6	1910	105.5
28000	3657	1579	62.0	1617	66.5	1653	71.1	1690	75.9	1727	80.9	1764	86.0	1802	91.4	1841	97.0	1880	102.6	1919	108.5
29000	3787	1605	65.1	1642	69.7	1678	74.4	1713	79.2	1749	84.2	1784	89.3	1820	94.6	1856	100.1	1894	105.8	1931	111.6
30000	3918	1631	68.5	1667	73.1	1703	77.8	1738	82.7	1772	87.7	1806	92.8	1840	98.1	1875	103.5	1910	109.2	1945	115.0
31000	4048	1657	72.1	1694	76.8	1729	81.5	1763	86.4	1797	91.5	1829	96.5	1862	101.8	1895	107.3	1928	112.9	1962	118.7
32000	4179	1682	75.7	1719	80.5	1755	85.4	1789	90.3	1821	95.3	1854	100.6	1886	105.8	1917	111.3	1949	116.8	1981	122.6
33000	4310	1709	79.7	1745	84.5	1780	89.4	1814	94.4	1847	99.5	1879	104.7	1910	110.1	1941	115.5	1972	121.1	2002	126.8
34000	4440	1735	83.6	1771	88.6	1807	93.7	1840	98.7	1873	103.9	1905	109.2	1935	114.5	1966	120.1	1995	125.5	2025	131.4
35000	4571	1762	87.8	1797	92.9	1832	98.1	1866	103.3	1898	108.5	1930	113.7	1961	119.2	1990	124.7	2020	130.4	2048	136.0
36000	4701	1788	92.0	1824	97.4	1858	102.7	1891	107.9	1924	113.2	1956	118.6	1986	124.1	2016	129.7	2044	135.3	2073	141.1
37000	4832	1816	96.4	1850	101.9	1884	107.3	1918	112.8	1950	118.2	1981	123.7	2012	129.2	2041	134.8	2070	140.6	2098	146.3
38000	4963	1844	100.8	1878	106.6	1911	112.3	1944	117.8	1976	123.4	2007	129.0	2037	134.5	2067	140.3	2095	145.9	2124	151.9
40000	5224	1902	110.0	1934	116.2	1966	122.4	1997	128.3	2028	134.2	2059	140.1	2089	145.8	2119	151.8	2147	157.5	2175	163.6
42000	5485	1962	119.9	1992	126.4	2022	132.9	2052	139.3	2082	145.5	2112	151.9	2141	157.8	2170	164.0	2198	170.0	2226	176.3

Volume	O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24000	3134	1965	107.5																		
25000	3265	1974	110.9	2051	122.1																
26000	3395	1982	114.2	2059	125.8	2133	137.5														
27000	3526	1989	117.3	2066	129.2	2141	141.4	2212	153.5												
28000	3657	1997	120.4	2074	132.7	2148	145.1	2219	157.7	2288	170.2										
29000	3787	2007	123.7	2082	136.1	2155	148.8	2226	161.7	2295	174.7	2361	187.6								
30000	3918	2018	127.1	2092	139.7	2164	152.6	2234	165.7	2302	178.9	2369	192.5	2432	205.7						
31000	4048	2032	130.8	2102	143.5	2173	156.5	2243	169.9	2310	183.3	2376	196.9	2441	210.9	2501	224.5				
32000	4179	2047	134.6	2114	147.2	2183	160.3	2252	174.0	2319	187.8	2384	201.6	2447	215.6	2510	230.1	2569	243.9		
33000	4310	2065	138.7	2129	151.2	2194	164.4	2261	178.0	2327	192.0	2393	206.4	2455	220.6	2517	235.0	2577	249.8	2634	264.0
34000	4440	2085	143.3	2146	155.7	2208	168.7	2272	182.3	2336	196.4	2400	210.8	2464	225.7	2524	240.2	2584	255.1	2643	270.1
35000	4571	2106	147.9	2164	160.3	2224	173.3	2286	187.0	2347	201.1	2409	215.5	2471	230.3	2534	245.7	2592	260.5	2650	275.8
36000	4701	2129	153.0	2185	165.3	2242	178.2	2300	191.7	2360	205.9	2421	220.5	2481	235.3	2541	250.5	2601	266.3	2658	281.4
37000	4832	2153	158.2	2207	170.6	2262	183.6	2318	196.9	2374	210.9	2432	225.4	2492	240.6	2550	255.8	2608	271.3	2667	287.5
38000	4963	2178	163.8	2231	176.2	2283	189.0	2337	202.4	2391	216.5	2446	230.8	2503	245.7	2561	261.3	2617	276.9	2674	292.9
39000	5093	2202	169.6	2255	182.1	2306	195.0	2357	208.2	2409	222.1	2463	236.5	2517	251.4	2572	266.7	2628	282.7	2683	298.7
40000	5224	2228	175.7	2279	188.2	2329	201.0	2380	214.4	2430	228.3	2480	242.5	2532	257.3	2586	272.8	2639	288.4	2693	304.7
42000	5485	2280	188.7	2330	201.3	2378	214.2	2426	227.6	2474	241.5	2521	255.6	2569	270.3	2618	285.5	2667	301.1	2718	317.5

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.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 200 HP, Direct Drive Arrangement 8 - 125 HP. Refer to factory for motor horsepower exceeding these limits.

Size

4025 SISW

Design 4570 Centrifugal BCI Fans

Wheel Diameter = 40.25 in.
Outlet Area = 9.31 sq. ft. inside
Maximum BHP = 25.67 x (RPM/1000)^3
Tip Speed, fpm = 10.54 x RPM

Model 18	1613
Model 30	2088
Model 40	2467

Volume		O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM		FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000		1074	430	2.0	551	4.0																
11000		1181	449	2.2	560	4.3	668	6.7														
12000		1289	470	2.6	573	4.7	673	7.2														
13000		1396	492	2.9	588	5.1	681	7.7	772	10.5												
14000		1504	514	3.3	605	5.5	692	8.2	778	11.2	861	14.3										
15000		1611	537	3.8	624	6.0	706	8.8	786	11.8	865	15.1										
16000		1718	560	4.3	644	6.6	721	9.4	797	12.5	872	15.9	945	19.4								
17000		1826	584	4.8	665	7.2	738	10.1	810	13.3	881	16.7	951	20.4	1020	24.2						
18000		1933	608	5.4	686	8.0	757	10.8	825	14.1	892	17.6	959	21.3	1025	25.2	1089	29.3				
19000		2040	633	6.0	708	8.7	776	11.6	841	14.9	905	18.5	968	22.4	1032	26.4	1093	30.5	1154	34.8		
20000		2148	658	6.7	731	9.6	796	12.5	859	15.8	919	19.5	980	23.5	1040	27.6	1100	31.8	1159	36.2	1216	40.7
21000		2255	684	7.4	754	10.5	817	13.5	877	16.8	936	20.5	993	24.6	1051	28.8	1108	33.1	1164	37.6	1220	42.2
22000		2363	709	8.2	777	11.4	839	14.6	897	17.9	953	21.7	1008	25.7	1063	30.0	1117	34.5	1172	39.0	1226	43.8
23000		2470	736	9.1	801	12.4	861	15.7	917	19.1	971	22.9	1024	27.0	1077	31.4	1129	35.9	1181	40.6	1233	45.4
24000		2577	762	10.1	824	13.5	883	16.9	938	20.4	990	24.2	1041	28.3	1092	32.8	1142	37.4	1192	42.2	1242	47.1
25000		2685	789	11.1	849	14.7	906	18.2	959	21.8	1010	25.6	1059	29.7	1108	34.2	1156	38.9	1204	43.8	1253	48.9
26000		2792	815	12.2	873	15.9	929	19.6	981	23.3	1031	27.1	1078	31.3	1125	35.8	1172	40.5	1218	45.5	1264	50.6
27000		2900	843	13.3	898	17.2	952	21.0	1003	24.8	1051	28.8	1098	32.9	1144	37.4	1189	42.2	1233	47.3	1278	52.5
28000		3007	870	14.6	923	18.5	976	22.6	1026	26.5	1073	30.5	1118	34.7	1163	39.2	1206	44.0	1249	49.1	1292	54.4
30000		3222	925	17.3	974	21.5	1024	25.8	1071	30.1	1117	34.3	1160	38.6	1202	43.2	1243	48.0	1284	53.1	1324	58.5
32000		3437	980	20.4	1026	24.8	1072	29.4	1118	34.0	1162	38.5	1203	43.0	1243	47.6	1283	52.5	1321	57.6	1359	63.1

Volume		O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM		FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22000		2363	1279	48.7	1332	53.6																
23000		2470	1285	50.4	1336	55.4	1385	60.6														
24000		2577	1292	52.1	1342	57.3	1390	62.6	1437	67.9	1484	73.4										
25000		2685	1301	54.0	1348	59.2	1396	64.6	1442	70.0	1488	75.6	1533	81.3								
26000		2792	1311	55.9	1357	61.2	1403	66.7	1448	72.3	1493	77.9	1537	83.6	1580	89.6						
27000		2900	1322	57.8	1366	63.2	1411	68.8	1455	74.5	1499	80.3	1541	86.1	1584	92.1	1627	98.3	1668	104.4		
28000		3007	1335	59.8	1377	65.4	1420	71.0	1463	76.8	1506	82.7	1548	88.6	1589	94.6	1631	100.9	1671	107.1	1711	113.5
29000		3114	1349	61.9	1390	67.5	1431	73.3	1473	79.2	1514	85.1	1555	91.3	1595	97.3	1636	103.6	1676	110.1	1715	116.4
30000		3222	1364	64.1	1404	69.9	1444	75.7	1484	81.6	1523	87.7	1563	93.9	1603	100.2	1642	106.4	1681	112.9	1720	119.4
31000		3329	1380	66.3	1419	72.1	1457	78.1	1496	84.2	1534	90.3	1573	96.6	1611	103.0	1650	109.4	1687	115.8	1726	122.6
32000		3437	1397	68.7	1434	74.5	1472	80.6	1509	86.7	1547	93.1	1584	99.4	1621	105.8	1658	112.4	1695	119.0	1732	125.7
33000		3544	1415	71.2	1451	77.1	1487	83.2	1523	89.4	1559	95.8	1596	102.3	1632	108.8	1668	115.4	1704	122.3	1740	128.9
34000		3651	1433	73.8	1468	79.7	1504	85.9	1539	92.2	1573	98.6	1608	105.1	1644	111.9	1679	118.6	1713	125.4	1749	132.4
36000		3866	1471	79.6	1505	85.5	1538	91.7	1571	98.1	1604	104.6	1638	111.3	1671	118.2	1703	125.0	1737	132.2	1769	139.2
38000		4081	1511	85.9	1543	91.9	1575	98.1	1607	104.5	1638	111.1	1670	117.9	1701	124.8	1732	131.9	1763	139.2	1794	146.4
40000		4296	1552	93.0	1583	99.0	1614	105.2	1644	111.6	1674	118.2	1705	125.1	1734	132.0	1764	139.2	1793	146.6	1823	154.0
42000		4511	1595	100.7	1625	106.7	1654	113.0	1684	119.4	1712	126.0	1741	132.9	1770	139.9	1798	147.1	1826	154.6	1854	162.1
44000		4725	1638	109.0	1667	115.1	1696	121.5	1724	128.0	1752	134.6	1780	141.4	1807	148.5	1834	155.7	1861	163.2	1888	170.7
46000		4940	1682	117.8	1711	124.3	1738	130.6	1766	137.2	1793	143.9	1819	150.8	1846	157.9	1872	165.1	1898	172.6	1924	180.1
48000		5155	1728	127.2	1755	133.8	1782	140.5	1808	147.2	1835	154.1	1860	160.9	1886	168.0	1911	175.3	1937	182.7	1961	190.3
50000		5370	1774	137.3	1800	144.1	1826	150.9	1852	157.9	1877	164.8	1903	171.9	1927	179.0	1952	186.4	1976	193.7	2001	201.4
52000		5585	1820	147.7	1846	155.0	1871	162.0	1896	169.1	1921	176.3	1945	183.5	1970	190.8	1993	198.1	2017	205.7	2040	213.3

Volume		O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM		FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
29000		3114	1792	129.6																		
30000		3222	1796	132.9																		
31000		3329	1800	136.1	1873	150.0																
32000		3437	1805	139.3	1876	153.4	1946	167.8														
33000		3544	1811	142.8	1881	157.0	1950	171.6	2018	186.4												
34000		3651	1818	146.5	1887	160.8	1955	175.6	2021	190.6	2086	205.8										
35000		3759	1826	149.9	1893	164.5	1960	179.4	2025	194.6	2090	210.4										
36000		3866	1835	153.7	1901	168.4	1966	183.4	2030	198.8	2093	214.5	2156	230.7								
37000		3974	1846	157.5	1910	172.5	1973	187.7	2036	203.3	2098	219.0	2159	235.1	2220	251.7						
38000		4081	1856	161.2	1919	176.4	1981	191.8	2043	207.5	2104	223.7	2164	240.0	2223	256.4	2282	273.4				
39000		4188	1869	165.3	1930	180.7	1990	196.3	2050	212.1	2110	228.2	2169	244.7	2229	261.8	2286	278.5	2343	295.9		
40000		4296	1882	169.2	1941	184.8	2000	200.6	2059	216.8	2118	233.2	2175	249.7	2233	266.5	2290	284.0	2346	301.3	2402	319.0
42000		4511	1910	177.6	1966	193.5	2022	209.8	2079	226.4	2135	243.0	2190	259.9	2246	277.2	2301	295.0	2355	312.4	2409	330.6
44000		4725	1942	186.4	1995	202.6	2048	219.3	2102	236.3	2155	253.2	2208	270.5	2262	288.2	2315	306.2	2367	324.1	2420	342.6
46000		4940	1975	195.9	2026	212.2	2077	229.1	2128	246.5	2179	263.9	2230	281.6	2281	299.7	2332	318.0	2382	336.2	2433	355.2
48000		5155	2011	206.1	2060	222.5	2109	239.5	2158	257.1	2206	275.0	2254	293.0	2303	311.5	2352	330.3	2400	348.8	2449	368.1
50000		5370	2048	217.2	2095	233.6	2142	250.7	2189	268.3	2236	286.6	2282	304.8	2328	323.6	2375	343.0	2421	361.8		
52000		5585	2087	229.1	2133	245.6	2177	262.7	2222	280.3	2267	298.7	2312	317.4	2356	336.2	2401	355.8	2445	375.3		

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.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 250 HP, Direct Drive Arrangement 8 - 250 HP. Refer to factory for motor horsepower exceeding these limits.

Wheel Diameter = 44.50 in.
Outlet Area = 11.39 sq. ft. inside
Maximum BHP = 42.40 x (RPM/1000)^3
Tip Speed, fpm = 11.65 x RPM

Model 18	1459
Model 30	1888
Model 40	2232

Size

4450 SISW

Design 4570 Centrifugal BCI Fans

Volume	O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13000	1142	400	2.6	504	5.1	603	8.0														
14000	1230	415	2.9	512	5.5	606	8.5														
15000	1318	430	3.2	522	5.9	611	9.0														
16000	1406	446	3.6	533	6.3	617	9.5	699	13.0												
17000	1494	463	4.0	546	6.7	625	10.0	703	13.6	778	17.4										
18000	1581	480	4.5	560	7.2	635	10.6	709	14.2	782	18.2										
19000	1669	497	4.9	574	7.8	646	11.1	716	14.9	786	19.0	854	23.3								
20000	1757	515	5.4	589	8.4	658	11.8	725	15.7	791	19.8	857	24.2	920	28.7						
21000	1845	532	6.0	605	9.0	671	12.5	735	16.4	798	20.6	861	25.1	923	29.8						
22000	1933	550	6.6	621	9.7	684	13.2	746	17.2	806	21.5	867	26.1	927	30.8	985	35.8				
23000	2021	569	7.2	637	10.5	699	14.0	758	18.0	816	22.4	874	27.1	932	32.0	988	37.0	1043	42.3		
24000	2109	587	7.9	654	11.3	714	14.9	771	18.9	826	23.4	882	28.2	938	33.1	993	38.3	1046	43.6	1099	49.1
25000	2197	606	8.6	670	12.2	729	15.8	784	19.9	838	24.4	891	29.3	945	34.3	998	39.6	1050	45.0	1101	50.6
26000	2284	625	9.4	688	13.1	745	16.8	798	20.9	850	25.5	902	30.4	953	35.6	1004	40.9	1055	46.4	1105	52.1
28000	2460	663	11.0	722	15.1	777	19.1	828	23.2	877	27.8	925	32.8	973	38.2	1020	43.7	1068	49.4	1115	55.3
30000	2636	702	13.0	758	17.3	810	21.5	859	25.8	905	30.5	951	35.5	995	41.0	1040	46.7	1084	52.6	1128	58.7
32000	2812	742	15.1	794	19.7	844	24.3	891	28.8	936	33.5	979	38.6	1021	44.1	1063	49.9	1104	56.0	1146	62.3
34000	2987	782	17.5	831	22.3	879	27.2	924	32.0	967	36.9	1008	42.0	1048	47.5	1088	53.4	1127	59.6	1166	66.0
36000	3163	823	20.2	868	25.2	914	30.4	958	35.5	999	40.6	1039	45.8	1077	51.4	1115	57.3	1152	63.5	1189	70.0
38000	3339	864	23.1	906	28.4	950	33.9	992	39.3	1032	44.7	1070	50.1	1108	55.7	1144	61.6	1179	67.8	1215	74.4
40000	3514	905	26.4	945	31.9	986	37.7	1027	43.4	1066	49.0	1103	54.6	1139	60.4	1174	66.4	1208	72.6	1242	79.2

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
25000	2197	1151	56.3																		
26000	2284	1154	57.9																		
27000	2372	1157	59.6	1204	65.7																
28000	2460	1162	61.4	1208	67.5	1253	73.9														
29000	2548	1167	63.1	1211	69.3	1256	75.8	1300	82.4												
30000	2636	1172	64.9	1216	71.2	1259	77.7	1302	84.4	1345	91.3										
31000	2724	1179	66.8	1222	73.2	1264	79.8	1306	86.5	1347	93.4	1388	100.5								
32000	2812	1187	68.8	1229	75.3	1270	82.0	1311	88.8	1351	95.7	1391	102.8	1430	110.2						
34000	2987	1205	72.6	1244	79.4	1283	86.3	1322	93.3	1361	100.5	1399	107.8	1436	115.1	1474	122.6	1511	130.4	1547	138.1
36000	3163	1226	76.8	1263	83.8	1300	90.9	1337	98.2	1373	105.5	1409	112.9	1446	120.5	1482	128.3	1517	136.0	1553	143.9
38000	3339	1250	81.3	1284	88.4	1319	95.8	1354	103.2	1389	110.7	1423	118.3	1458	126.2	1493	134.0	1527	141.9	1561	150.2
40000	3514	1275	86.2	1308	93.4	1341	100.8	1374	108.4	1407	116.1	1440	124.0	1473	132.1	1506	140.0	1539	148.2	1572	156.5
42000	3690	1302	91.5	1334	98.7	1366	106.3	1397	113.9	1428	121.8	1459	129.9	1491	138.1	1522	146.3	1554	154.8	1585	163.2
44000	3866	1330	97.2	1361	104.5	1391	112.1	1421	119.8	1451	127.8	1481	136.1	1511	144.4	1541	152.8	1571	161.6	1600	170.1
46000	4042	1360	103.6	1389	110.8	1418	118.4	1447	126.3	1476	134.3	1505	142.6	1533	151.1	1562	159.6	1590	168.5	1618	177.3
48000	4217	1390	110.5	1419	117.7	1447	125.3	1475	133.2	1502	141.2	1530	149.5	1558	158.2	1584	166.8	1612	175.8	1639	184.8
50000	4393	1421	117.9	1449	125.2	1476	132.7	1503	140.6	1530	148.8	1556	157.0	1583	165.7	1609	174.5	1635	183.5	1661	192.7
52000	4569	1453	125.7	1480	133.2	1506	140.9	1532	148.6	1558	156.8	1584	165.2	1610	173.7	1635	182.7	1660	191.6	1686	201.0
54000	4744	1485	134.2	1511	141.7	1537	149.4	1563	157.4	1588	165.5	1613	173.9	1637	182.5	1662	191.3	1686	200.4	1711	209.7
56000	4920	1518	143.0	1544	150.8	1569	158.6	1594	166.6	1618	174.9	1642	183.2	1667	191.9	1690	200.7	1714	209.9	1737	219.1
58000	5096	1551	152.3	1576	160.2	1601	168.4	1625	176.5	1649	184.8	1673	193.2	1696	201.8	1719	210.8	1742	219.8	1765	229.2
60000	5272	1585	162.1	1610	170.4	1633	178.5	1657	186.9	1680	195.3	1703	203.8	1726	212.6	1749	221.4	1771	230.5	1793	239.8
62000	5447	1619	172.3	1643	180.8	1667	189.4	1690	197.8	1712	206.4	1735	215.1	1757	223.9	1779	232.8	1801	242.0	1822	251.3

Volume	O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
36000	3163	1622	160.2																		
37000	3251	1625	163.3																		
38000	3339	1628	166.7	1694	183.7																
40000	3514	1637	173.5	1701	190.8	1763	208.6														
42000	3690	1647	180.5	1709	198.1	1769	216.2	1829	234.6	1888	253.5										
44000	3866	1660	187.8	1719	205.8	1778	224.2	1836	242.9	1893	262.1	1950	281.9								
46000	4042	1675	195.4	1732	213.8	1789	232.6	1845	251.6	1901	271.1	1956	291.2	2010	311.4	2063	331.8				
48000	4217	1693	203.3	1748	222.1	1802	241.2	1856	260.7	1910	280.5	1964	300.9	2017	321.4	2068	342.1	2120	363.6		
50000	4393	1714	211.5	1766	230.7	1818	250.2	1870	270.0	1922	290.2	1974	310.9	2025	331.8	2075	352.7	2126	374.4	2175	396.3
52000	4569	1736	220.1	1786	239.7	1835	259.6	1885	279.7	1935	300.2	1985	321.2	2035	342.8	2084	363.9	2133	385.7	2182	408.2
54000	4744	1759	228.9	1807	248.7	1855	269.2	1903	289.8	1951	310.6	1999	331.9	2047	353.7	2095	375.4	2142	397.4	2190	420.3
56000	4920	1784	238.3	1830	258.3	1876	278.9	1923	300.1	1969	321.4	2015	342.9	2061	364.9	2108	387.5	2153	409.6	2199	432.5
58000	5096	1810	248.5	1855	268.5	1899	289.2	1944	310.5	1988	332.4	2033	354.4	2077	376.6	2122	399.4	2166	422.3	2210	445.2
60000	5272	1837	259.2	1881	279.4	1924	300.2	1966	321.5	2009	343.5	2052	366.2	2095	388.8	2138	411.7	2181	435.4	2224	458.5
62000	5447	1865	270.5	1907	290.7	1949	311.7	1991	333.4	2032	355.3	2073	378.0	2115	401.4	2156	424.5	2197	448.2		
64000	5623	1894	282.9	1935	302.9	1975	323.7	2016	345.4	2056	368.0	2096	390.6	2136	413.9	2176	438.1	2216	461.6		
66000	5799	1923	295.6	1963	315.8	2003	336.9	2042	358.4	2081	380.7	2120	403.9	2158	427.2	2197	451.2				
68000	5975	1953	309.4	1992	329.4	2031	350.3	2069	372.1	2107	394.5	2144	417.4	2182	441.3	2219	465.3				

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.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 300 HP, Direct Drive Arrangement 8 - 250 HP. Refer to factory for motor horsepower exceeding these limits.

Size

4900 SISW

Design 4570 Centrifugal BCI Fans

Wheel Diameter = 49.00 in.
Outlet Area = 13.8 sq. ft. inside
Maximum BHP = 68.64 x (RPM/1000)^3
Tip Speed, fpm = 12.83 x RPM

Model 18	1325
Model 30	1715
Model 40	2027

Volume	O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15000	1087	355	3.0	454	6.0																
16000	1159	366	3.2	459	6.3	548	9.9														
17000	1232	377	3.5	465	6.7	551	10.3														
18000	1304	389	3.9	472	7.0	554	10.8														
19000	1377	400	4.2	481	7.4	558	11.3	634	15.5												
20000	1449	413	4.6	490	7.9	564	11.8	636	16.1												
21000	1522	425	5.0	500	8.3	570	12.3	640	16.7	708	21.5										
22000	1594	438	5.5	510	8.8	578	12.9	645	17.4	710	22.2										
23000	1667	451	6.0	521	9.4	586	13.5	650	18.1	714	23.0	775	28.2								
24000	1739	464	6.5	532	10.0	595	14.1	656	18.8	718	23.8	778	29.1								
25000	1812	477	7.0	544	10.6	604	14.8	664	19.5	723	24.7	781	30.0	837	35.6						
26000	1884	491	7.6	556	11.3	615	15.5	671	20.3	728	25.5	784	31.0	840	36.7	893	42.6				
28000	2029	518	8.8	580	12.8	636	17.1	689	22.0	742	27.3	794	33.0	847	38.9	898	45.0	948	51.4		
30000	2174	546	10.2	605	14.5	658	18.9	709	23.8	758	29.3	807	35.2	856	41.2	905	47.6	953	54.1	1000	60.9
32000	2319	574	11.7	630	16.3	682	20.9	730	25.9	777	31.4	823	37.4	869	43.7	914	50.3	960	57.0	1005	63.9
34000	2464	603	13.4	657	18.4	706	23.2	752	28.2	797	33.8	840	39.9	884	46.4	927	53.1	970	60.0	1013	67.2
36000	2609	632	15.3	683	20.5	731	25.6	775	30.8	818	36.4	860	42.6	901	49.1	941	56.1	982	63.2	1023	70.5
38000	2754	662	17.4	710	22.9	756	28.3	799	33.7	840	39.4	880	45.5	919	52.1	958	59.2	996	66.5	1035	74.0
40000	2899	692	19.7	737	25.4	782	31.1	824	36.8	863	42.6	902	48.8	939	55.4	976	62.6	1013	70.0	1049	77.7
42000	3043	722	22.2	765	28.1	808	34.2	849	40.2	887	46.1	924	52.4	960	59.0	996	66.2	1031	73.8	1066	81.6
44000	3188	753	25.0	793	31.1	835	37.5	874	43.7	912	49.9	947	56.3	982	63.0	1017	70.2	1050	77.8	1083	85.7
46000	3333	783	27.9	822	34.3	862	41.0	900	47.5	936	54.0	971	60.5	1005	67.4	1038	74.5	1070	82.1	1102	90.1
48000	3478	814	31.2	851	37.8	889	44.7	926	51.6	961	58.3	995	65.1	1028	72.0	1060	79.2	1091	86.8	1122	94.8

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
30000	2174																				
32000	2319	1049	71.0	1092	78.3																
34000	2464	1055	74.5	1097	82.0	1138	89.7														
36000	2609	1063	78.0	1103	85.7	1143	93.5	1182	101.5	1220	109.8										
38000	2754	1073	81.7	1112	89.6	1150	97.6	1187	105.8	1225	114.3	1261	122.8	1297	131.4						
40000	2899	1086	85.6	1122	93.7	1159	101.9	1195	110.4	1231	118.9	1266	127.5	1301	136.4	1336	145.6	1370	154.6		
42000	3043	1100	89.7	1135	98.0	1170	106.5	1205	115.1	1239	123.7	1273	132.6	1307	141.6	1341	150.9	1374	160.1	1407	169.8
44000	3188	1116	93.9	1150	102.4	1183	111.1	1216	119.9	1249	128.8	1282	137.8	1315	147.1	1347	156.5	1379	165.9	1412	175.7
46000	3333	1134	98.4	1166	107.0	1198	115.9	1229	124.9	1261	134.0	1292	143.3	1324	152.8	1355	162.3	1386	171.9	1418	181.9
48000	3478	1153	103.2	1183	111.9	1214	120.9	1244	130.2	1274	139.4	1304	148.9	1335	158.6	1365	168.3	1395	178.1	1425	188.3
50000	3623	1173	108.4	1202	117.1	1231	126.2	1261	135.6	1289	145.1	1318	154.7	1347	164.6	1377	174.6	1405	184.5	1434	194.8
52000	3768	1194	114.0	1222	122.7	1250	131.8	1278	141.2	1306	151.0	1334	160.7	1362	170.7	1390	181.1	1417	191.2	1445	201.6
54000	3913	1215	119.9	1243	128.8	1270	137.9	1297	147.3	1324	157.0	1351	167.1	1377	177.1	1404	187.6	1431	198.0	1458	208.6
56000	4058	1237	126.3	1264	135.1	1291	144.3	1317	153.8	1343	163.5	1369	173.7	1394	183.9	1420	194.4	1446	205.2	1471	215.8
58000	4203	1260	133.2	1286	142.0	1312	151.2	1337	160.7	1362	170.5	1387	180.6	1413	191.1	1437	201.5	1462	212.4	1487	223.4
60000	4348	1283	140.5	1309	149.4	1334	158.6	1358	168.0	1383	177.9	1407	188.1	1431	198.4	1456	209.3	1479	219.9	1504	231.2
62000	4493	1307	148.2	1332	157.2	1356	166.4	1380	176.0	1404	185.7	1428	195.9	1451	206.4	1474	217.0	1498	228.1	1521	239.2
64000	4638	1331	156.4	1355	165.6	1379	174.7	1402	184.3	1426	194.2	1449	204.2	1472	214.8	1494	225.5	1517	236.5	1539	247.7
66000	4783	1355	164.9	1379	174.1	1402	183.6	1425	193.2	1448	203.0	1471	213.3	1493	223.6	1515	234.4	1537	245.4	1559	256.8
68000	4928	1380	173.8	1403	183.4	1426	192.8	1448	202.5	1471	212.5	1493	222.6	1515	233.2	1536	243.8	1558	255.0	1579	266.1
70000	5072	1405	183.1	1428	192.7	1450	202.5	1472	212.4	1494	222.3	1515	232.7	1536	243.0	1558	253.9	1578	264.8	1600	276.3
72000	5217	1430	192.7	1453	202.8	1474	212.6	1496	222.6	1517	232.9	1538	243.1	1559	253.7	1580	264.3	1600	275.5	1620	286.6
76000	5507	1481	213.2	1503	223.7	1524	234.2	1545	244.5	1565	255.2	1585	265.5	1606	276.4	1625	287.1	1645	298.4	1664	309.5

Volume	O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
44000	3188	1474	195.4																		
46000	3333	1479	201.9	1539	222.5																
48000	3478	1484	208.6	1543	229.5	1600	251.0														
50000	3623	1492	215.5	1549	236.7	1605	258.6	1660	281.0												
52000	3768	1501	222.7	1556	244.3	1610	266.4	1664	289.1	1717	312.3										
54000	3913	1511	230.1	1564	252.1	1617	274.5	1670	297.4	1722	321.0	1772	344.7	1822	368.8						
56000	4058	1523	237.8	1574	260.1	1626	282.9	1677	306.1	1727	329.9	1777	354.3	1826	378.5	1874	403.5				
58000	4203	1537	245.8	1586	268.5	1636	291.7	1685	315.2	1734	339.1	1783	363.7	1831	388.8	1878	413.7	1925	439.7		
60000	4348	1551	253.9	1599	277.1	1647	300.9	1695	324.7	1742	348.9	1790	373.6	1837	399.0	1883	424.5	1929	450.3	1975	477.3
62000	4493	1567	262.1	1613	285.6	1660	309.7	1706	334.3	1752	359.1	1798	383.9	1844	409.4	1890	435.7	1934	461.6	1978	488.4
64000	4638	1584	270.9	1629	294.6	1673	319.0	1718	343.8	1763	369.1	1808	394.8	1852	420.3	1896	446.6	1941	473.7	1983	500.1
66000	4783	1602	280.1	1646	304.2	1689	328.8	1732	353.9	1775	379.3	1818	405.4	1862	431.9	1905	458.1	1947	485.2	1990	512.7
68000	4928	1621	289.4	1663	313.6	1705	338.6	1747	364.4	1789	390.2	1830	416.3	1872	443.1	1915	470.4	1956	497.2	1998	525.1
70000	5072	1641	299.7	1681	323.9	1722	348.9	1762	374.6	1803	401.1	1844	428.0	1884	454.7	1925	482.2	1966	510.1	2006	537.7
72000	5217	1661	310.1	1700	334.5	1740	359.9	1780	385.8	1819	412.2	1858	439.3	1898	467.2	1937	494.5	1976	522.6	2016	551.2
74000	5362	1681	321.3	1720	345.7	1759	370.9	1797	397.1	1836	424.2	1873	451.2	1912	478.9	1950	507.6	1988	535.6	2026	564.5
78000	5652	1724	345.4	1761	369.7	1798	395.0	1835	421.4	1871	448.7	1907	476.1	1943	504.5	1979	533.6	2015	562.4		
80000	5797	1746	358.3	1783	382.7	1819	408.3	1854	434.4	1889	461.4	1925	489.6	1960	517.9	1995	546.8				

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.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 350 HP, Direct Drive Arrangement 8 - 350 HP. Refer to factory for motor horsepower exceeding these limits.

NORTHERN BLOWER®

Wheel Diameter = 54.25 in.
Outlet Area = 16.92 sq. ft. inside
Maximum BHP = 114 x (RPM/1000)^3
Tip Speed, fpm = 14.2 x RPM

Model 18	1197
Model 30	1549
Model 40	1831

Size

5425 SISW

Design 4570 Centrifugal BCI Fans

Volume	O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18000	1064	318	3.6	409	7.2																
19000	1123	326	3.8	412	7.5																
20000	1182	334	4.1	416	7.9	496	12.3														
22000	1301	350	4.7	426	8.6	500	13.2														
24000	1419	368	5.5	439	9.4	507	14.2	574	19.4												
26000	1537	387	6.3	453	10.3	516	15.3	579	20.7	640	26.5										
28000	1655	405	7.2	469	11.4	528	16.4	586	22.0	644	28.0	700	34.4								
30000	1774	425	8.2	486	12.6	541	17.7	596	23.5	650	29.6	703	36.1	755	43.0						
32000	1892	444	9.4	503	14.0	556	19.1	607	25.0	658	31.4	709	38.1	759	45.1	807	52.4				
34000	2010	464	10.6	521	15.5	572	20.6	620	26.6	668	33.2	716	40.1	764	47.3	810	54.8	855	62.5		
36000	2128	485	11.9	539	17.1	588	22.4	635	28.4	680	35.1	725	42.2	770	49.6	815	57.3	859	65.3	902	73.5
38000	2246	506	13.4	558	18.9	605	24.3	650	30.4	693	37.2	736	44.5	779	52.1	821	59.9	864	68.1	905	76.5
40000	2365	527	15.0	577	20.8	623	26.5	666	32.6	707	39.4	748	46.8	789	54.6	829	62.7	870	71.0	910	79.6
42000	2483	548	16.8	596	22.8	641	28.8	682	35.0	722	41.8	761	49.3	800	57.2	839	65.6	877	74.0	916	82.8
44000	2601	570	18.7	616	25.0	659	31.3	699	37.6	738	44.5	776	52.0	813	60.0	849	68.5	886	77.2	923	86.2
46000	2719	591	20.7	635	27.3	678	33.9	717	40.4	754	47.3	791	54.9	826	63.0	862	71.6	897	80.5	932	89.7
48000	2838	613	23.0	656	29.8	697	36.7	735	43.5	771	50.5	806	58.0	841	66.3	875	74.9	908	84.0	942	93.3
50000	2956	636	25.4	676	32.4	716	39.6	753	46.7	788	53.9	822	61.5	856	69.7	888	78.4	921	87.6	953	97.1
52000	3074	658	27.9	696	35.3	735	42.8	771	50.1	806	57.5	839	65.2	871	73.4	903	82.1	935	91.4	966	101.1
54000	3192	681	30.7	717	38.3	755	46.1	790	53.7	824	61.3	856	69.1	888	77.4	919	86.2	949	95.5	979	105.2
56000	3311	703	33.6	738	41.4	774	49.5	809	57.5	842	65.4	874	73.4	904	81.7	934	90.4	964	99.8	993	109.5

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
37000	2187	944	83.5																		
38000	2246	946	85.1	986	94.0																
40000	2365	949	88.4	988	97.5	1026	106.8														
42000	2483	954	91.8	991	101.0	1028	110.5	1064	120.1												
44000	2601	960	95.4	996	104.8	1032	114.4	1067	124.2	1102	134.3	1136	144.7								
46000	2719	967	99.1	1002	108.7	1037	118.4	1071	128.4	1105	138.7	1138	149.2	1171	159.8						
48000	2838	976	103.0	1009	112.7	1043	122.7	1076	132.8	1109	143.2	1142	153.9	1174	164.7	1205	175.6	1237	187.0		
50000	2956	986	107.0	1018	117.0	1050	127.1	1082	137.4	1114	148.0	1146	158.8	1177	169.8	1208	180.8	1239	192.3	1269	203.8
52000	3074	997	111.1	1028	121.3	1059	131.7	1090	142.2	1121	152.9	1151	163.9	1182	175.2	1212	186.3	1242	197.8	1271	209.6
54000	3192	1009	115.3	1039	125.7	1069	136.4	1099	147.1	1128	158.0	1158	169.1	1188	180.5	1217	191.9	1246	203.5	1275	215.6
56000	3311	1022	119.7	1051	130.3	1079	141.1	1108	152.2	1137	163.3	1166	174.5	1194	186.1	1223	197.9	1251	209.5	1279	221.6
58000	3429	1036	124.5	1063	135.1	1091	146.0	1119	157.2	1147	168.7	1174	180.2	1202	191.8	1230	203.8	1257	215.7	1284	227.8
60000	3547	1050	129.5	1077	140.3	1104	151.2	1130	162.5	1157	174.1	1184	186.0	1211	197.8	1237	209.8	1265	222.3	1291	234.4
62000	3665	1065	134.8	1091	145.5	1117	156.7	1143	168.2	1169	179.8	1195	191.7	1221	204.1	1246	216.1	1272	228.6	1298	241.2
64000	3783	1080	140.4	1106	151.2	1131	162.3	1156	173.9	1181	185.8	1206	197.8	1231	210.1	1257	222.7	1281	235.2	1307	248.1
66000	3902	1096	146.4	1121	157.2	1146	168.4	1170	179.9	1194	191.9	1219	204.3	1243	216.5	1267	229.2	1291	242.1	1316	255.0
68000	4020	1112	152.7	1137	163.5	1161	174.7	1185	186.5	1208	198.3	1232	210.6	1256	223.4	1279	236.0	1302	249.1	1326	262.3
72000	4256	1146	166.5	1169	177.3	1192	188.6	1215	200.3	1237	212.2	1260	224.7	1282	237.5	1304	250.4	1327	263.9	1348	277.1
76000	4493	1180	181.7	1203	192.7	1225	204.0	1247	215.7	1268	227.7	1290	240.2	1311	253.0	1332	266.1	1353	279.6	1374	293.2
80000	4729	1216	198.3	1237	209.5	1259	221.0	1280	232.8	1300	244.8	1321	257.2	1341	270.0	1361	283.2	1382	296.8	1401	310.5
84000	4966	1252	216.0	1273	227.7	1294	239.4	1314	251.4	1334	263.6	1353	276.0	1373	288.9	1392	302.0	1412	315.7	1431	329.4
88000	5202	1289	235.0	1310	247.2	1329	259.3	1349	271.5	1368	284.1	1387	296.6	1406	309.6	1425	322.6	1443	336.3	1461	350.0
92000	5439	1327	255.4	1346	267.9	1366	280.7	1385	293.2	1403	306.0	1422	318.8	1440	331.9	1458	345.2	1476	358.7	1494	372.6

Volume	O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
52000	3074	1330	233.6																		
54000	3192	1332	239.8	1387	264.7																
56000	3311	1335	246.0	1389	271.3	1442	297.2														
58000	3429	1339	252.6	1392	278.1	1444	304.3														
60000	3547	1344	259.6	1396	285.4	1447	311.8	1497	338.9												
62000	3665	1350	266.9	1401	293.1	1451	319.8	1500	347.0	1548	374.9										
64000	3783	1356	274.0	1406	300.5	1455	327.6	1504	355.5	1551	383.7	1598	412.3								
66000	3902	1364	281.3	1412	308.2	1460	335.6	1507	363.7	1554	392.5	1601	421.8	1646	451.1	1691	481.6				
68000	4020	1373	289.1	1420	316.4	1466	344.2	1513	372.4	1558	401.2	1604	430.9	1649	461.2	1692	491.3	1736	522.6		
70000	4138	1382	296.9	1428	324.6	1473	352.9	1519	381.8	1563	410.7	1607	440.3	1651	470.7	1695	502.0	1737	532.8	1780	565.1
72000	4256	1392	304.7	1437	332.8	1481	361.4	1525	390.5	1569	420.3	1613	450.5	1655	480.8	1698	512.0	1740	544.1	1781	575.7
74000	4375	1404	313.2	1447	341.7	1490	370.6	1533	399.9	1575	429.8	1618	460.3	1661	491.8	1702	522.6	1743	554.6	1784	587.5
76000	4493	1415	321.3	1457	350.1	1499	379.6	1541	409.7	1583	440.1	1624	470.6	1665	501.8	1707	534.1	1747	565.9	1787	598.6
78000	4611	1428	330.1	1469	359.2	1509	388.9	1550	419.2	1590	450.0	1631	481.5	1671	512.9	1711	544.8	1752	577.8	1791	610.4
80000	4729	1441	338.9	1481	368.4	1520	398.7	1560	429.6	1599	460.4	1639	491.8	1678	524.1	1718	556.7	1756	589.1	1795	622.9
84000	4966	1469	358.0	1506	387.8	1544	418.6	1582	450.0	1619	481.6	1656	514.0	1694	547.2	1731	580.1	1769	613.5	1807	648.3
88000	5202	1498	378.7	1534	408.6	1570	439.7	1606	471.6	1641	503.8	1677	536.9	1713	571.0	1748	604.6	1784	638.9	1820	674.2
92000	5439	1529	401.2	1563	431.1	1598	462.3	1632	494.7	1666	527.3	1700	560.8	1734	595.6	1768	630.0	1802	665.1		

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.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 350 HP, Direct Drive Arrangement 8 - 350 HP. Refer to factory for motor horsepower exceeding these limits.

Size

6000 SISW

Design 4570 Centrifugal BCI Fans

Wheel Diameter = 60.00 in.
Outlet Area = 20.7 sq. ft. inside
Maximum BHP = 189 x (RPM/1000)^3
Tip Speed, fpm = 15.71 x RPM

Model 18	1082
Model 30	1401
Model 40	1655

Volume	O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22000	1063	287	4.4	369	8.8																
24000	1160	299	4.9	375	9.5	448	14.8														
26000	1257	311	5.5	382	10.2	450	15.7														
28000	1353	324	6.2	390	11.0	455	16.7	517	22.9												
30000	1450	337	6.9	400	11.8	460	17.7	520	24.1												
32000	1547	351	7.8	411	12.7	468	18.8	524	25.4	579	32.5										
34000	1643	365	8.7	423	13.8	476	19.9	529	26.8	582	34.1	632	41.8								
36000	1740	379	9.7	435	15.0	486	21.2	536	28.2	586	35.7	635	43.6								
38000	1837	393	10.8	447	16.3	496	22.5	544	29.7	591	37.4	639	45.5	684	53.9						
40000	1933	408	12.0	460	17.7	508	24.0	553	31.3	598	39.1	643	47.4	687	56.1	731	65.1				
42000	2030	423	13.2	474	19.2	519	25.6	563	32.9	606	41.0	649	49.5	691	58.3	733	67.5	774	77.1		
44000	2126	438	14.6	487	20.9	531	27.4	574	34.7	615	42.9	656	51.6	696	60.7	737	70.0	777	79.8	815	89.8
46000	2223	453	16.0	501	22.6	544	29.3	585	36.7	624	44.9	663	53.8	702	63.1	741	72.7	780	82.6	818	92.8
48000	2320	469	17.6	515	24.5	557	31.4	596	38.8	634	47.1	672	56.1	709	65.6	747	75.4	784	85.5	821	95.8
52000	2513	501	21.1	543	28.6	583	35.9	621	43.6	657	52.0	692	61.1	726	70.9	761	81.1	795	91.6	829	102.3
56000	2706	533	25.1	573	33.1	611	41.1	646	49.1	680	57.5	713	66.7	746	76.7	778	87.2	810	98.0	842	109.3
60000	2900	565	29.6	602	38.1	639	46.7	673	55.2	705	63.9	737	73.2	767	83.2	797	93.9	827	105.0	857	116.6
62000	2996	582	32.1	617	40.8	653	49.8	687	58.5	718	67.4	749	76.7	779	86.8	808	97.4	837	108.7	866	120.4
64000	3093	598	34.7	633	43.7	667	52.9	700	62.0	731	71.0	761	80.5	790	90.5	819	101.2	847	112.6	875	124.4
66000	3190	615	37.5	648	46.7	682	56.2	714	65.6	745	74.9	774	84.5	802	94.5	830	105.3	858	116.7	885	128.5
68000	3286	632	40.4	664	49.9	697	59.7	728	69.4	758	78.9	787	88.7	815	98.8	842	109.5	869	120.9	895	132.9
72000	3480	665	46.8	695	56.7	726	67.0	757	77.4	785	87.5	813	97.7	840	108.0	866	118.8	892	130.2	917	142.3

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
46000	2223	854	103.3																		
48000	2320	857	106.5	892	117.5																
50000	2416	860	109.9	894	121.0	928	132.5	961	144.3												
52000	2513	864	113.4	897	124.7	930	136.3	963	148.2	995	160.5										
54000	2610	868	117.0	901	128.5	933	140.2	965	152.3	996	164.6	1028	177.4								
56000	2706	874	120.8	906	132.5	937	144.4	968	156.5	999	169.0	1029	181.8	1059	194.9						
58000	2803	880	124.6	911	136.5	942	148.7	972	161.0	1002	173.5	1031	186.4	1061	199.8	1089	213.0				
60000	2900	887	128.4	917	140.5	946	152.9	976	165.6	1005	178.4	1034	191.3	1063	204.6	1091	218.4	1119	231.9	1147	246.0
64000	3093	903	136.7	931	149.2	959	161.9	987	174.8	1014	188.0	1042	201.5	1069	215.2	1096	228.9	1123	243.2	1150	257.4
68000	3286	921	145.3	948	158.2	974	171.3	1000	184.8	1026	198.5	1052	212.2	1078	226.1	1105	240.5	1130	254.8	1156	269.4
72000	3480	942	154.8	967	167.9	991	181.4	1016	195.3	1041	209.1	1065	223.3	1090	237.9	1115	252.4	1139	267.1	1164	282.4
76000	3673	964	165.3	987	178.5	1011	192.2	1034	206.1	1058	220.4	1081	235.0	1104	250.1	1127	264.8	1151	280.2	1174	295.5
80000	3866	987	176.8	1009	190.0	1032	203.8	1054	217.9	1076	232.4	1099	247.4	1121	262.6	1143	277.9	1165	293.8	1187	309.3
84000	4060	1011	189.5	1033	202.7	1054	216.5	1076	230.7	1097	245.3	1118	260.5	1139	275.9	1160	291.5	1181	307.8	1202	323.7
88000	4253	1036	203.4	1057	216.7	1077	230.4	1098	244.8	1118	259.4	1139	274.6	1159	290.2	1179	306.0	1199	322.6	1219	338.7
92000	4446	1061	218.6	1081	231.9	1101	245.6	1121	260.0	1141	274.7	1160	289.8	1180	305.7	1199	321.5	1218	338.1	1237	354.6
96000	4640	1087	234.6	1107	248.4	1126	262.2	1146	276.5	1165	291.4	1183	306.4	1202	322.2	1221	338.2	1239	354.8	1257	371.6
100000	4833	1114	251.8	1133	265.8	1152	280.1	1170	294.4	1189	309.3	1207	324.5	1225	340.1	1243	356.4	1261	372.7	1279	389.9
104000	5026	1141	270.2	1159	284.4	1178	298.9	1196	313.8	1214	328.5	1232	344.0	1249	359.5	1266	375.7	1284	392.2	1301	409.2
108000	5220	1168	289.2	1187	304.2	1204	319.0	1222	334.0	1239	349.4	1256	364.7	1274	380.7	1290	396.6	1307	413.4	1323	430.0
112000	5413	1196	309.6	1214	324.8	1231	340.3	1248	355.6	1265	371.2	1282	387.0	1299	402.8	1315	419.2	1331	435.6	1347	452.7

Volume	O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
64000	3093	1202	286.8																		
68000	3286	1206	299.3	1255	330.0																
72000	3480	1212	312.8	1260	344.2	1307	376.5	1353	409.6												
76000	3673	1221	327.0	1267	359.0	1312	391.7	1356	425.1	1400	459.2	1443	494.4								
80000	3866	1231	341.4	1275	374.2	1319	407.6	1362	441.7	1404	476.6	1447	512.6	1488	548.6						
84000	4060	1244	356.6	1286	390.2	1328	424.3	1369	459.1	1410	494.8	1452	531.5	1491	567.7	1531	605.1	1570	644.2		
88000	4253	1259	372.4	1299	406.8	1339	441.7	1379	477.4	1419	513.8	1458	550.8	1496	587.7	1535	625.9	1573	665.2	1610	703.8
92000	4446	1276	388.9	1314	424.0	1352	459.8	1390	496.2	1428	533.4	1466	571.1	1504	608.7	1541	647.4	1578	687.3	1614	726.5
96000	4640	1294	406.3	1330	442.0	1367	478.5	1403	515.7	1440	553.6	1477	592.2	1513	630.4	1549	669.8	1585	710.4	1620	750.1
100000	4833	1314	424.8	1349	460.9	1384	497.9	1418	535.7	1453	574.4	1489	614.1	1523	653.0	1558	693.0	1593	734.4	1627	774.7
104000	5026	1335	444.4	1369	481.0	1402	518.4	1435	556.7	1469	595.9	1502	636.2	1536	676.4	1569	716.9	1603	758.8	1636	800.2
108000	5220	1356	465.1	1389	501.8	1421	539.9	1454	578.7	1485	618.3	1518	658.9	1550	700.8	1582	741.6	1614	783.9	1646	826.8
112000	5413	1379	487.7	1410	524.2	1442	562.3	1473	601.8	1504	641.9	1534	682.7	1565	724.9	1596	767.4	1627	809.9		
116000	5606	1403	512.0	1433	548.5	1463	586.4	1493	625.7	1523	666.6	1553	707.9	1582	750.0	1612	793.9	1642	836.8		
120000	5800	1426	537.5	1456	574.2	1486	612.5	1515	651.6	1543	692.2	1572	734.4	1601	776.8	1629	820.3				
124000	5993	1451	565.1	1480	601.5	1508	639.5	1537	679.3	1565	719.8	1592	761.6	1620	805.2	1648	848.5				

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.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 350 HP, Direct Drive Arrangement 8 - 350 HP. Refer to factory for motor horsepower exceeding these limits.

NORTHERN BLOWER®

Wheel Diameter = 66.00 in.
Outlet Area = 25.04 sq. ft. inside
Maximum BHP = 304 x (RPM/1000)^3
Tip Speed, fpm = 17.28 x RPM

Model 18	984
Model 30	1273
Model 40	1505

Size

6600 SISW

Design 4570 Centrifugal BCI Fans

Volume	O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
28000	1118	267	5.6	338	11.1	406	17.4														
30000	1198	276	6.2	343	11.8	408	18.3														
33000	1318	290	7.1	352	12.9	412	19.7	469	27.2												
37000	1478	310	8.7	367	14.6	420	21.8	474	29.7	525	38.1										
40000	1598	326	10.0	379	16.1	429	23.5	479	31.6	528	40.3	574	49.6								
42000	1678	336	11.0	388	17.2	436	24.7	483	33.0	530	41.9	576	51.3								
44000	1757	347	12.0	397	18.4	444	25.9	489	34.5	534	43.5	578	53.1	620	63.2						
49000	1957	374	14.8	421	21.8	464	29.5	505	38.3	545	47.9	586	58.0	626	68.6	664	79.5	703	91.0		
52000	2077	391	16.8	437	24.2	478	32.0	516	40.9	555	50.8	593	61.2	631	71.9	668	83.2	705	94.8	740	106.9
56000	2237	414	19.7	457	27.7	496	35.8	533	44.7	569	54.7	604	65.5	640	76.8	675	88.4	710	100.4	744	112.8
58000	2317	426	21.2	468	29.6	506	37.9	542	46.9	576	56.9	611	67.8	645	79.3	679	91.1	713	103.3	746	115.8
60000	2396	438	22.9	478	31.5	516	40.1	551	49.1	585	59.3	618	70.2	651	81.8	684	94.0	716	106.3	749	119.0
62000	2476	450	24.7	489	33.6	526	42.4	560	51.6	593	61.7	625	72.8	657	84.5	689	96.8	721	109.3	752	122.3
64000	2556	461	26.5	500	35.7	536	44.8	569	54.1	602	64.3	633	75.4	664	87.3	695	99.7	726	112.6	756	125.7
66000	2636	474	28.5	511	38.0	546	47.4	579	56.9	610	67.0	641	78.2	671	90.1	701	102.8	731	115.8	761	129.1
68000	2716	486	30.6	522	40.3	556	50.0	589	59.7	620	70.0	649	81.1	679	93.2	708	105.9	737	119.0	766	132.6
72000	2876	510	35.1	544	45.4	578	55.7	609	65.8	638	76.3	667	87.5	695	99.6	723	112.5	750	126.0	777	139.9
76000	3036	535	40.1	567	50.8	599	61.8	629	72.5	658	83.3	685	94.6	712	106.8	739	119.8	765	133.4	790	147.6
80000	3195	560	45.5	590	56.8	621	68.3	650	79.7	678	90.9	704	102.5	730	114.7	755	127.7	780	141.5	805	155.9
84000	3355	585	51.5	613	63.2	643	75.3	671	87.3	698	99.1	724	111.0	749	123.4	773	136.4	797	150.2	821	164.7
88000	3515	610	58.1	637	70.3	665	82.9	692	95.5	718	107.8	744	120.2	768	132.9	791	146.0	814	159.8	837	174.3

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
55000	2197	776	123.9																		
57000	2277	778	127.2	810	140.4																
59000	2357	780	130.5	812	143.9	843	157.7														
62000	2476	784	135.7	815	149.3	845	163.2	875	177.5												
64000	2556	787	139.2	817	153.0	847	167.1	876	181.7	905	196.3										
68000	2716	795	146.5	824	160.7	852	175.1	880	189.9	908	205.0	936	220.6	963	236.3						
72000	2876	804	154.2	832	168.8	859	183.6	886	198.8	913	214.4	939	230.1	965	246.0	991	262.5	1017	279.1		
76000	3036	816	162.3	842	177.3	868	192.7	894	208.3	919	224.0	945	240.0	970	256.4	995	273.3	1020	289.9	1044	307.4
80000	3195	830	170.8	854	186.2	879	202.1	903	217.9	928	234.0	952	250.5	976	267.4	1000	284.3	1024	301.4	1048	319.4
84000	3355	844	179.9	868	195.6	891	211.7	914	228.0	937	244.5	961	261.5	984	278.8	1007	295.9	1030	313.5	1053	331.6
88000	3515	860	189.6	882	205.5	904	221.9	927	238.4	949	255.4	971	272.8	993	290.5	1015	308.0	1038	326.1	1060	344.4
92000	3675	876	200.1	898	216.0	919	232.6	940	249.5	962	266.8	983	284.5	1004	302.7	1025	320.6	1046	339.1	1068	357.7
96000	3834	893	211.5	914	227.5	935	244.1	955	261.4	976	278.7	996	296.7	1016	315.4	1036	333.6	1057	352.5	1077	371.6
100000	3994	911	224.0	931	239.9	951	256.5	971	273.8	991	291.5	1010	309.6	1030	328.3	1049	347.1	1068	366.3	1088	386.0
104000	4154	930	237.4	949	253.4	968	269.9	988	287.2	1007	305.2	1025	323.3	1044	342.0	1063	361.4	1081	380.6	1100	400.8
108000	4314	949	251.7	968	267.8	986	284.5	1005	301.6	1023	319.5	1041	338.1	1059	356.7	1077	376.2	1095	395.8	1113	415.9
112000	4473	968	267.1	986	283.2	1004	300.0	1023	317.4	1040	335.0	1058	353.5	1075	372.5	1093	391.8	1110	412.0	1127	431.9
116000	4633	988	283.2	1006	299.9	1023	316.5	1041	333.9	1058	351.9	1075	370.1	1092	389.2	1109	408.6	1126	428.5	1143	449.0
120000	4793	1007	300.3	1025	317.0	1042	334.3	1059	351.6	1076	369.5	1093	388.1	1109	406.8	1126	426.6	1142	446.4	1158	467.1
124000	4953	1028	318.2	1045	335.5	1062	352.7	1078	370.5	1095	388.5	1111	406.9	1127	426.1	1143	445.3	1159	465.7	1175	485.9
128000	5113	1048	337.0	1065	354.6	1082	372.6	1098	390.3	1114	408.6	1130	427.2	1145	446.1	1161	465.7	1176	485.6	1192	506.3
132000	5272	1069	356.6	1085	374.9	1101	392.8	1117	411.3	1133	429.7	1149	448.5	1164	467.7	1179	487.1	1194	507.2	1209	527.6
136000	5432	1090	377.1	1106	395.6	1122	414.5	1137	433.0	1153	451.9	1168	470.9	1183	490.2	1198	509.9	1212	530.0	1227	550.5

Volume	O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
80000	3195	1095	355.1	1140	392.1																
82000	3275	1096	361.2	1141	398.4																
84000	3355	1099	368.2	1143	405.8	1186	444.1														
88000	3515	1104	381.7	1147	419.8	1189	458.8	1230	498.5												
94000	3755	1113	402.7	1154	441.8	1195	481.8	1235	522.8	1275	565.2	1313	607.3								
96000	3834	1118	410.4	1158	450.0	1198	490.2	1237	531.2	1276	573.1	1314	616.1	1352	660.7						
98000	3914	1122	417.6	1161	457.4	1201	498.1	1240	539.7	1278	582.5	1316	625.5	1353	669.2	1390	714.5				
100000	3994	1127	425.7	1166	466.0	1204	506.9	1242	548.5	1280	591.0	1317	634.5	1355	679.5	1391	724.1				
102000	4074	1132	432.9	1170	473.5	1208	515.0	1245	557.2	1283	600.5	1320	644.5	1356	688.6	1392	734.2	1428	781.0		
104000	4154	1137	441.1	1175	482.2	1212	524.2	1249	566.6	1286	609.6	1322	653.6	1358	698.9	1393	744.7	1428	790.7	1463	839.0
106000	4234	1143	448.8	1179	490.2	1216	532.4	1252	575.3	1289	619.2	1325	664.2	1360	708.9	1395	754.6	1430	802.4	1464	849.0
108000	4314	1149	456.9	1185	498.8	1221	541.6	1257	585.3	1292	629.0	1327	673.5	1362	719.1	1398	766.3	1431	812.3	1465	860.5
112000	4473	1162	473.4	1196	516.0	1231	559.5	1265	603.9	1300	649.2	1334	694.2	1368	740.1	1402	787.5	1435	835.0	1468	883.0
116000	4633	1176	490.9	1209	534.1	1242	578.2	1275	623.1	1309	669.0	1342	715.8	1375	762.0	1408	809.5	1441	858.8	1472	906.7
120000	4793	1191	509.4	1223	553.2	1255	597.8	1287	643.2	1319	689.6	1351	737.0	1383	784.9	1414	832.6	1446	881.9	1478	931.6
124000	4953	1206	528.2	1237	572.2	1268	617.8	1299	664.4	1330	711.1	1361	758.8	1392	807.8	1423	856.8	1453	906.0	1484	957.2
128000	5113	1222	548.7	1252	592.7	1282	638.3	1312	685.3	1342	733.7	1372	781.8	1401	830.9	1432	881.4	1461	931.3	1491	982.2
132000	5272	1239	570.2	1268	614.7	1297	660.5	1326	707.4	1355	755.7	1384	805.6	1413	855.2	1441	905.6	1471	957.9	1499	1008.6

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.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 350 HP, Direct Drive Arrangement 8 - 500 HP. Refer to factory for motor horsepower exceeding these limits.

Size

7300 SISW

Design 4570 Centrifugal BCI Fans

Wheel Diameter = 73.00 in.
Outlet Area = 30.63 sq. ft. inside
Maximum BHP = 504 x (RPM/1000)^3
Tip Speed, fpm = 19.11 x RPM

Model 18	890
Model 30	1151
Model 40	1360

Volume	O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
35000	1143	244	7.1	307	13.8	368	21.7														
40000	1306	261	8.6	317	15.7	372	23.9	424	33.1												
45000	1469	279	10.5	331	17.7	380	26.5	428	36.1	474	46.4										
50000	1632	299	12.7	346	20.2	391	29.3	435	39.4	478	50.1	520	61.5								
55000	1796	318	15.3	363	23.2	404	32.5	444	43.0	484	54.3	523	66.1	562	78.6						
60000	1959	339	18.2	381	26.8	420	36.1	457	46.9	493	58.7	530	71.0	566	83.9	601	97.3	635	111.4		
65000	2122	360	21.5	400	30.8	436	40.4	471	51.3	505	63.4	539	76.3	572	89.7	605	103.5	638	117.9	670	132.7
70000	2285	381	25.2	419	35.3	454	45.3	487	56.3	518	68.6	550	81.9	581	95.7	612	110.2	643	124.9	674	140.2
75000	2449	403	29.4	439	40.3	472	50.9	503	62.0	533	74.4	563	87.9	592	102.3	621	117.1	650	132.5	679	148.3
80000	2612	425	34.1	459	45.6	491	57.0	521	68.5	549	81.0	577	94.6	605	109.2	632	124.6	659	140.4	687	156.6
85000	2775	447	39.4	479	51.5	510	63.7	539	75.7	566	88.4	593	102.1	619	116.8	645	132.4	670	148.8	696	165.5
90000	2938	470	45.3	500	58.0	530	71.0	557	83.6	584	96.6	609	110.4	634	125.2	659	141.0	683	157.6	707	174.9
95000	3102	493	51.7	521	65.1	550	78.8	576	92.2	602	105.7	627	119.7	650	134.5	674	150.3	697	167.1	720	184.7
100000	3265	516	58.8	543	72.8	570	87.2	596	101.5	620	115.5	644	129.9	667	144.8	690	160.7	712	177.6	734	195.3
105000	3428	539	66.6	564	81.2	590	96.2	615	111.3	639	126.1	662	140.9	685	156.1	706	172.1	728	189.0	749	206.8
110000	3591	563	75.1	586	90.3	611	106.0	635	121.8	659	137.4	681	152.7	703	168.4	724	184.6	744	201.6	764	219.4
115000	3755	586	84.2	609	100.1	632	116.4	656	133.1	678	149.3	700	165.4	721	181.7	741	198.1	761	215.2	781	233.1
120000	3918	610	94.2	631	110.8	653	127.7	676	144.8	698	162.1	719	178.9	739	195.6	759	212.6	779	229.9	798	247.9
125000	4081	634	104.9	654	122.4	675	139.7	697	157.7	718	175.5	739	193.1	758	210.6	778	228.1	796	245.8	815	263.9
130000	4244	657	116.5	677	134.6	697	152.6	717	171.0	738	189.8	758	208.3	778	226.5	796	244.5	815	262.8	833	281.3
140000	4571	705	142.4	723	161.9	741	181.1	760	200.8	779	220.9	798	240.8	817	260.7	835	280.2	852	299.6	869	318.9
150000	4897	753	172.2	769	193.1	786	213.6	804	234.2	821	255.4	839	276.8	857	298.2	874	319.4	891	340.2	907	360.8
160000	5224	801	205.7	816	228.1	832	250.0	848	271.8	864	294.1	881	316.6	897	339.4	914	362.2	930	384.9	945	406.8

Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
70000	2285	703	156.0	733	172.2																
75000	2449	708	164.4	736	181.0	764	198.1	791	215.6												
80000	2612	714	173.3	741	190.3	767	207.7	793	225.5	819	243.9	845	262.8								
85000	2775	722	182.7	747	200.2	773	218.1	798	236.5	823	255.1	847	273.9	871	293.4	895	313.5				
90000	2938	731	192.7	756	210.8	780	229.1	804	247.7	827	266.7	851	286.1	875	306.2	897	326.0	920	346.5	943	367.6
95000	3102	743	202.8	766	221.4	788	240.2	811	259.4	834	279.0	857	299.1	879	319.2	901	339.6	924	360.8	945	381.7
100000	3265	756	213.7	777	232.6	799	252.0	821	271.8	842	292.0	864	312.4	885	332.9	907	353.9	928	375.4	949	396.7
105000	3428	770	225.4	790	244.6	811	264.3	831	284.6	852	305.5	873	326.2	893	347.2	914	368.9	934	390.6	955	412.5
110000	3591	784	238.0	804	257.4	824	277.4	844	298.0	863	319.3	883	340.5	902	362.1	922	384.4	942	406.4	961	428.9
115000	3755	800	251.8	819	271.2	838	291.4	857	312.2	876	333.8	894	355.5	913	377.6	932	400.4	951	422.9	969	445.9
120000	3918	816	266.6	835	286.3	853	306.5	871	327.4	889	349.1	907	371.3	925	393.6	943	416.8	961	440.0	979	463.5
125000	4081	833	282.7	851	302.3	869	322.8	886	343.7	903	365.4	921	388.0	938	410.6	955	433.9	972	457.8	989	481.6
130000	4244	850	300.2	868	319.7	885	340.1	902	361.4	918	383.0	935	405.5	952	428.7	968	452.0	985	476.4	1001	500.4
135000	4408	868	318.9	885	338.7	901	358.9	918	380.1	934	402.0	950	424.3	966	447.7	982	471.3	998	495.5	1014	520.3
140000	4571	886	338.5	902	358.7	919	379.3	934	400.3	950	422.2	966	444.8	981	467.8	997	492.0	1012	516.0	1028	541.3
145000	4734	904	359.7	920	379.9	936	400.7	952	422.2	967	443.8	982	466.4	997	489.6	1012	513.4	1027	538.0	1042	562.9
150000	4897	923	381.5	939	402.6	954	423.6	969	445.0	984	467.3	999	489.6	1014	512.9	1028	536.6	1042	561.2	1057	586.2
155000	5061	942	404.8	957	426.0	972	447.7	987	469.5	1001	491.6	1016	514.6	1030	537.5	1044	561.7	1058	585.8	1072	611.3
160000	5224	961	428.7	976	451.0	990	472.9	1005	495.1	1019	517.8	1033	540.5	1047	564.2	1061	587.8	1075	612.6	1088	637.3
165000	5387	980	454.4	995	476.6	1009	499.4	1023	522.2	1037	545.0	1051	568.4	1064	591.7	1078	616.0	1091	640.3	1105	665.6
170000	5550	999	480.2	1014	503.8	1028	527.0	1042	550.2	1056	573.8	1069	597.2	1082	621.4	1095	645.3	1109	670.2	1121	695.1
175000	5714	1019	507.9	1033	531.8	1047	555.7	1061	579.9	1074	603.5	1087	627.9	1100	651.8	1113	676.7	1126	701.2	1139	726.6
180000	5877	1039	536.2	1052	560.9	1066	586.0	1079	610.1	1093	635.2	1106	659.2	1119	684.4	1131	708.8	1144	734.3	1156	759.5

Volume	O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
100000	3265	991	440.9	1031	486.3																
102500	3347	993	449.6	1033	495.4	1073	542.5														
105000	3428	995	457.4	1034	503.6	1073	551.0														
110000	3591	1000	474.7	1038	521.6	1076	569.8	1113	619.3	1150	670.4										
115000	3755	1007	492.7	1044	540.5	1080	589.4	1117	639.6	1152	691.4	1187	742.9								
117500	3836	1011	502.3	1047	550.7	1083	599.9	1119	650.0	1153	701.3	1188	754.1	1223	808.5						
122500	3999	1019	521.3	1054	570.7	1089	620.8	1123	671.7	1157	723.7	1191	777.0	1225	832.2	1257	886.6				
125000	4081	1024	530.4	1058	580.2	1092	630.9	1126	682.7	1160	735.7	1193	789.4	1226	843.4	1258	899.4	1291	956.3		
130000	4244	1034	550.3	1067	601.1	1100	652.7	1133	705.4	1166	759.1	1198	814.2	1230	868.7	1261	925.0	1293	983.5	1323	1040.3
132500	4326	1040	560.5	1072	612.0	1104	664.4	1137	717.8	1169	771.2	1200	825.7	1232	881.8	1264	939.1	1294	995.8	1325	1055.1
135000	4408	1046	570.9	1077	622.7	1109	675.3	1140	728.8	1172	783.3	1204	839.1	1235	895.1	1265	951.7	1296	1010.4	1326	1068.9
140000	4571	1058	592.5	1089	645.3	1119	698.8	1149	753.1	1180	808.3	1210	864.8	1241	922.7	1270	979.5	1300	1038.4	1330	1098.7
145000	4734	1071	614.4	1101	667.7	1130	722.6	1160	778.5	1189	834.3	1218	891.3	1247	949.8	1277	1008.7	1305	1067.5	1334	1128.9
150000	4897	1085	638.0	1114	691.6	1142	746.8	1170	803.6	1199	861.6	1227	919.0	1255	977.8	1284	1038.4	1312	1098.1	1340	1159.2
157500	5142	1108	675.9	1135	729.9	1162	785.8	1189	843.5	1215	902.5	1242	961.5	1269	1022.0	1296	1084.2	1323	1144.9	1350	1207.9
160000	5224	1115	689.3	1142	743.5	1169	800.0	1195	857.4	1221	915.9	1248	976.2	1274	1038.0	1300	1098.6	1327	1161.3	1353	1224.6
165000	5387	1131	717.4	1157	771.5	1183	827.6	1208	885.9	1234	945.8	1259	1005.9	1285	1067.8	1311	1131.3	1336	1193.6		
170000	5550	1147	747.1	1173	801.6	1198	857.8	1222	915.6	1247	975.6	1272	1037.8	1296	1099.3	1321	1163.0	1346	1227.9		

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.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 350 HP, Direct Drive Arrangement 8 - 500 HP. Refer to factory for motor horsepower exceeding these limits.

NORTHERN BLOWER®

Wheel Diameter = 80.75 in.
Outlet Area = 37.49 sq. ft. inside
Maximum BHP = 834 x (RPM/1000)^3
Tip Speed, fpm = 21.14 x RPM

Model 18	804
Model 30	1041
Model 40	1230

Size

8075 SISW

Design 4570 Centrifugal BCI Fans

Volume	O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
42500	1134	220	8.6	277	16.8	332	26.4														
47500	1267	232	10.0	284	18.6	335	28.6														
50000	1334	239	10.9	289	19.6	337	29.8	384	41.1												
55000	1468	252	12.8	299	21.7	343	32.4	387	44.1	429	56.7										
60000	1601	267	15.0	310	24.1	351	35.2	391	47.4	431	60.5	469	74.3								
65000	1734	281	17.5	322	27.0	361	38.2	398	50.9	435	64.5	472	78.8	507	93.8						
70000	1868	296	20.2	336	30.3	372	41.6	406	54.7	441	68.7	475	83.5	509	99.0	542	115.0				
75000	2001	311	23.2	349	34.0	383	45.4	416	58.7	448	73.3	481	88.5	513	104.4	544	121.0	575	138.1		
77500	2068	319	24.9	356	36.0	389	47.6	421	60.9	453	75.7	484	91.2	515	107.3	546	124.0	576	141.5	605	159.6
90000	2401	358	34.4	392	47.4	422	60.2	451	73.8	478	88.9	505	105.4	532	122.7	559	140.9	586	159.4	612	178.4
100000	2668	391	43.9	421	58.3	450	72.5	477	86.9	502	102.1	527	118.8	551	136.7	575	155.6	599	175.4	624	195.5
110000	2935	424	55.2	452	70.8	479	86.6	504	102.1	528	118.0	551	134.9	573	152.9	595	172.3	617	192.6	639	213.8
120000	3202	458	68.5	483	85.4	508	102.6	532	119.7	555	136.6	576	153.9	597	172.2	618	191.7	638	212.3	658	233.8
130000	3469	493	84.0	515	102.0	538	120.6	561	139.4	582	157.5	603	176.0	623	194.7	642	214.2	661	234.9	680	256.7
140000	3736	528	101.7	548	121.1	569	140.9	591	161.2	611	180.9	631	200.6	650	220.3	668	240.4	686	261.3	704	283.1
150000	4002	562	121.9	581	142.8	601	163.7	621	185.2	640	206.6	659	227.9	677	248.9	695	269.9	712	291.4	729	313.4
160000	4269	598	144.8	615	167.1	633	189.3	652	211.9	670	234.9	688	257.8	706	280.2	723	302.5	739	324.8	755	347.5
170000	4536	633	170.7	649	194.3	666	217.7	683	241.7	700	265.9	718	290.2	735	314.2	751	337.9	767	361.6	782	385.1
180000	4803	668	199.6	683	224.7	699	249.3	715	274.2	731	299.7	748	325.3	764	350.9	780	376.2	795	401.4	810	426.4
190000	5070	704	231.8	718	258.3	732	284.3	747	310.4	763	337.0	778	363.9	794	390.9	809	417.7	824	444.2	838	470.7
200000	5337	740	267.0	753	295.0	766	322.4	780	349.7	795	377.4	809	405.5	824	434.1	839	462.6	853	490.5	867	518.2
210000	5603	775	305.9	788	335.3	800	364.2	813	392.9	827	421.9	841	451.0	855	480.5	869	510.2	883	540.2	896	569.4

VolumeTO.	Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
85000	2268	636	189.9	662	209.7																
90000	2401	638	198.0	664	218.2	689	238.9														
95000	2535	642	206.8	667	227.3	692	248.5	716	270.2	740	292.4										
100000	2668	648	216.0	671	237.0	695	258.6	719	280.8	741	303.0	764	325.8	786	349.5						
105000	2802	654	225.6	677	247.1	700	269.2	722	291.5	744	314.2	766	337.5	788	361.7	809	385.7				
110000	2935	661	235.5	683	257.6	705	280.0	726	302.8	748	326.0	769	349.8	791	374.3	811	398.6	832	423.7	852	449.5
115000	3068	669	245.7	690	268.4	711	291.3	732	314.6	753	338.2	773	362.5	794	387.5	814	412.1	834	437.6	854	463.8
120000	3202	678	256.3	699	279.4	719	303.0	738	326.8	758	350.9	778	375.7	798	401.1	818	426.2	837	452.0	857	478.7
125000	3335	688	267.4	708	290.9	727	315.0	746	339.5	765	364.1	784	389.2	803	415.1	822	440.9	841	467.0	860	494.2
130000	3469	699	279.4	717	303.0	736	327.4	754	352.6	773	377.7	791	403.3	809	429.5	828	456.1	846	482.5	864	510.0
135000	3602	710	292.3	728	316.0	746	340.5	763	365.8	781	391.9	799	417.8	816	444.4	834	471.8	852	498.6	869	526.3
140000	3736	722	306.1	739	329.9	756	354.5	773	379.9	790	406.2	807	433.0	824	459.8	841	487.4	858	515.3	875	543.1
145000	3869	733	320.5	750	344.5	767	369.5	784	395.0	800	421.2	816	448.4	833	475.9	849	503.6	866	532.5	882	560.6
150000	4002	746	336.3	762	360.1	778	385.0	794	410.9	810	437.4	826	464.4	842	492.6	858	520.7	874	549.4	890	578.8
155000	4136	758	353.0	774	377.1	790	401.8	806	427.5	821	454.3	837	481.6	852	509.5	867	538.7	882	567.3	898	597.2
160000	4269	771	370.6	787	394.6	802	419.6	817	445.5	832	472.0	847	499.7	862	527.8	877	556.6	892	586.4	907	615.9
170000	4536	797	409.0	812	433.5	827	458.8	841	484.4	856	511.1	870	539.0	884	567.0	898	596.3	912	625.9	926	656.5
180000	4803	824	451.1	839	476.3	853	502.1	867	528.1	881	554.8	894	582.6	908	610.7	921	640.3	934	669.8	948	701.0
190000	5070	852	496.9	866	522.9	880	549.5	893	576.2	906	603.3	919	631.4	932	659.5	945	689.1	958	718.6	970	749.8
200000	5337	881	546.1	894	573.4	907	600.8	920	628.8	932	656.3	945	684.9	957	713.3	970	742.9	982	772.6	994	803.6
210000	5603	909	598.4	922	627.8	935	656.0	947	684.9	960	713.6	972	742.7	984	772.1	995	801.8	1007	832.0	1019	862.9
220000	5870	938	654.7	951	684.9	963	715.6	975	745.0	987	775.6	999	805.0	1011	835.9	1022	865.6	1033	896.9	1044	927.6
230000	6137	968	714.4	980	746.3	992	777.9	1004	809.6	1015	840.5	1027	872.0	1038	903.0	1049	934.4	1060	966.1	1071	997.6

Volume	O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
120000	3202	895	532.5	932	587.9																
125000	3335	897	548.5	934	604.5	970	662.4														
130000	3469	900	565.1	936	621.8	971	680.2	1005	740.5												
135000	3602	904	582.3	939	639.8	973	698.9	1007	759.6	1040	821.7										
140000	3736	909	600.2	943	658.6	976	718.3	1009	779.5	1041	842.5	1073	906.3								
145000	3869	915	618.8	948	678.2	980	738.6	1012	800.4	1043	863.7	1075	928.9	1105	994.1						
150000	4002	921	638.3	953	698.7	985	760.0	1016	822.4	1046	886.0	1077	951.3	1107	1018.9	1137	1085.4				
155000	4136	928	657.3	959	718.7	990	781.4	1020	845.5	1050	909.6	1080	975.1	1109	1042.5	1139	1111.8	1167	1180.0	1196	1251.5
160000	4269	936	677.0	966	739.4	996	802.9	1025	867.6	1055	933.8	1084	1000.3	1112	1067.6	1141	1137.1	1169	1207.7	1197	1278.1
165000	4403	945	697.9	974	761.2	1002	825.5	1031	890.9	1059	957.5	1088	1025.7	1116	1094.4	1144	1163.5	1172	1235.2	1199	1306.9
170000	4536	954	718.9	982	783.3	1010	849.3	1037	915.6	1065	982.6	1093	1051.0	1120	1121.2	1148	1191.8	1174	1262.7	1202	1336.8
175000	4669	964	740.7	991	805.5	1017	872.0	1044	939.8	1072	1009.2	1098	1078.0	1125	1148.0	1152	1220.1	1178	1292.5	1204	1365.4
180000	4803	974	764.3	1000	829.7	1026	896.5	1052	964.7	1078	1034.3	1105	1105.4	1131	1176.9	1156	1248.5	1183	1322.5	1208	1396.5
190000	5070	995	813.4	1020	879.2	1045	947.1	1069	1016.9	1094	1088.7	1119	1161.9	1143	1234.2	1168	1308.7	1193	1384.8	1217	1459.6
200000	5337	1018	867.3	1042	933.4	1065	1001.8	1088	1072.6	1112	1145.9	1135	1219.9	1158	1294.6	1182	1371.8	1205	1448.4	1228	1526.0
210000	5603	1042	926.7	1065	992.9	1087	1061.5	1109	1132.7	1132	1206.7	1154	1281.6	1176	1357.8	1198	1437.1	1220	1515.1		
220000	5870	1067	991.6	1089	1058.2	1110	1126.7	1131	1197.8	1153	1272.0	1174	1347.9	1195	1424.9	1216	1505.2				
230000	6137	1092	1062.2	1113	1129.0	1134	1198.1	1154	1268.8	1175	1342.7	1195	1419.6	1215	1496.6						

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.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 350 HP, Direct Drive Arrangement 8 - 500 HP. Refer to factory for motor horsepower exceeding these limits.

Size

8900 SISW

Design 4570 Centrifugal BCI Fans

Wheel Diameter = 89.00 in.
Outlet Area = 45.54 sq. ft. inside
Maximum BHP = 1356 x (RPM/1000)^3
Tip Speed, fpm = 23.3 x RPM

Model 18	730
Model 30	944
Model 40	1116

Volume	O.Vel	1"SP		2"SP		3"SP		4"SP		5"SP		6"SP		7"SP		8"SP		9"SP		10"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
50000	1098	196	10.0	250	19.9																
55000	1208	205	11.3	255	21.6	303	33.5														
60000	1318	215	13.0	261	23.5	305	35.9	348	49.5												
65000	1428	225	14.8	268	25.5	309	38.4	350	52.5												
70000	1538	236	16.9	276	27.8	315	41.1	353	55.7	390	71.2										
75000	1647	246	19.2	285	30.4	321	44.0	357	59.0	392	75.1	426	92.1								
80000	1757	257	21.8	295	33.4	329	47.1	362	62.7	396	79.2	428	96.6	460	114.9						
85000	1867	268	24.6	304	36.7	337	50.5	369	66.4	400	83.5	431	101.4	462	120.2	492	139.7				
90000	1977	280	27.5	314	40.4	346	54.3	376	70.4	406	88.0	435	106.5	465	125.6	493	145.6	521	166.4		
95000	2087	291	30.8	325	44.4	355	58.6	384	74.7	412	92.7	440	111.7	468	131.3	496	151.8	523	172.9	549	195.0
100000	2197	303	34.4	335	48.7	364	63.3	392	79.5	419	97.6	446	117.1	472	137.3	499	158.4	525	179.9	551	202.2
110000	2416	327	42.4	357	58.3	384	73.9	410	90.4	435	108.8	459	128.8	484	150.0	508	172.0	532	194.7	556	217.8
120000	2636	351	51.8	379	69.1	405	86.2	429	103.4	453	121.9	475	142.2	498	163.8	520	186.9	542	210.5	564	234.7
130000	2855	376	62.8	401	81.3	426	99.9	450	118.3	472	137.2	493	157.6	514	179.6	534	203.0	555	227.4	575	252.7
140000	3075	401	75.2	425	94.9	448	115.1	470	134.9	491	154.8	512	175.6	531	197.5	551	221.1	570	246.1	589	272.3
150000	3295	427	89.4	448	110.4	470	132.0	492	153.4	512	174.4	531	195.9	550	218.2	568	241.8	586	266.9	604	293.2
160000	3514	452	105.6	472	127.7	493	150.6	513	173.6	533	196.0	551	218.6	569	241.6	587	265.4	604	290.5	621	317.0
170000	3734	478	123.4	497	146.9	516	171.0	536	195.6	554	219.6	572	243.5	589	267.5	606	291.9	623	317.2	639	343.7
180000	3954	505	143.4	522	168.4	540	193.6	558	219.4	576	245.2	593	270.6	610	295.6	626	320.9	642	346.9	657	373.6
190000	4173	531	165.5	547	192.0	564	218.3	581	245.4	598	272.8	615	299.6	631	326.1	647	352.6	662	379.3	677	406.7
200000	4393	557	190.1	572	217.8	588	245.6	604	273.7	621	302.3	637	330.8	652	358.9	667	386.7	682	414.5	696	442.7
210000	4613	584	217.1	598	246.2	613	275.0	628	304.5	644	334.5	659	364.6	674	394.4	689	423.6	703	452.5	717	481.6
220000	4832	610	246.6	623	277.3	637	307.3	652	337.7	667	368.8	681	400.2	696	431.5	710	462.5	724	493.3	738	523.6
230000	5052	637	278.8	649	311.0	662	342.5	676	374.0	690	406.3	704	438.9	718	471.6	732	503.9	746	536.0	759	568.0
240000	5272	663	313.6	675	347.1	688	379.9	701	412.7	714	446.0	727	479.9	741	514.0	754	548.3	767	582.0	780	615.0

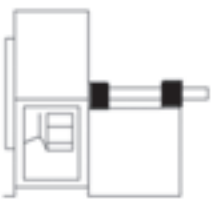
Volume	O.Vel	11"SP		12"SP		13"SP		14"SP		15"SP		16"SP		17"SP		18"SP		19"SP		20"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
100000	2197	576	225.3																		
105000	2306	577	233.3	601	257.5																
110000	2416	580	241.7	603	266.2	626	291.5	648	317.4												
115000	2526	583	250.4	605	275.4	627	301.0	649	327.3	671	354.5										
120000	2636	586	259.5	608	284.9	630	310.9	651	337.6	672	365.1	693	392.7								
125000	2746	591	268.9	612	294.8	633	321.2	653	348.3	674	376.1	694	404.3	714	432.7	734	462.2				
130000	2855	596	278.6	616	305.0	636	331.9	656	359.4	676	387.5	696	416.5	716	445.1	735	474.7	754	505.4		
140000	3075	608	299.1	627	326.6	646	354.5	664	382.8	683	411.6	702	441.2	721	471.6	739	501.4	757	532.4	775	564.2
150000	3295	622	320.6	639	348.9	657	377.9	675	407.6	692	437.8	710	467.8	727	498.6	745	530.4	762	561.7	779	594.0
160000	3514	638	344.7	654	373.6	671	403.4	687	433.5	703	464.4	720	496.0	737	528.2	753	560.0	769	593.0	786	626.1
170000	3734	655	371.6	670	400.6	686	430.5	701	461.3	717	493.2	732	525.8	748	558.3	763	591.9	779	625.7	794	659.5
180000	3954	673	401.6	687	430.5	702	460.5	717	491.8	732	524.3	746	557.0	761	590.6	776	625.4	790	659.5	805	695.2
190000	4173	691	434.9	706	463.8	720	493.9	734	525.3	748	558.0	762	590.9	776	625.2	789	660.2	803	695.4	817	732.2
200000	4393	711	471.4	724	500.9	738	530.9	752	562.3	765	595.1	778	628.1	791	662.7	805	697.9	818	733.8	831	770.9
210000	4613	730	511.1	744	541.3	757	571.7	770	603.0	783	635.8	796	669.0	808	703.5	821	739.0	833	775.1	846	812.5
220000	4832	751	553.8	764	584.6	777	616.2	789	647.6	801	680.3	814	713.8	826	748.1	838	784.0	850	819.9	862	857.8
230000	5052	772	599.9	784	631.3	796	663.5	809	696.0	821	728.8	833	763.0	844	797.0	856	832.8	867	868.8	879	906.6
240000	5272	793	648.2	805	681.5	817	714.1	829	747.7	840	781.2	852	815.4	863	850.2	874	885.7	886	922.2	897	959.3
250000	5491	814	699.6	826	733.9	838	768.6	849	802.4	860	837.5	871	871.8	882	907.5	893	943.0	904	980.0	915	1016.8

Volume	O.Vel	22"SP		24"SP		26"SP		28"SP		30"SP		32"SP		34"SP		36"SP		38"SP		40"SP	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
140000	3075	811	628.9																		
145000	3185	812	644.1	846	711.1																
150000	3295	813	659.7	846	727.5																
155000	3405	815	676.3	848	744.8	880	815.0														
160000	3514	818	694.0	850	763.4	882	834.2	912	906.5												
165000	3624	821	711.2	853	781.2	883	853.2	914	927.4	943	1001.8										
170000	3734	825	728.8	855	799.8	886	872.3	915	946.6	945	1023.1	974	1100.7								
175000	3844	829	747.8	859	819.7	889	893.0	918	967.6	946	1044.0	975	1122.5	1003	1203.1						
180000	3954	834	766.4	863	839.2	892	913.7	920	990.1	949	1066.9	976	1145.1	1004	1225.7	1031	1308.9				
185000	4064	839	785.3	867	859.2	895	934.4	923	1011.0	951	1089.5	979	1170.1	1005	1249.9	1032	1332.4	1059	1418.1		
190000	4173	845	805.9	872	880.9	900	956.9	927	1034.0	954	1112.5	981	1192.9	1008	1275.9	1033	1358.3	1059	1442.6	1085	1530.5
195000	4283	850	825.0	877	900.9	904	978.2	931	1057.1	957	1137.8	984	1218.0	1009	1300.1	1036	1385.0	1061	1470.1	1086	1556.3
200000	4393	857	846.1	883	922.9	909	1000.9	935	1080.2	961	1160.9	987	1243.5	1013	1327.4	1038	1411.0	1063	1497.8	1088	1585.3
205000	4503	863	866.6	889	944.4	914	1024.0	940	1105.2	965	1186.6	990	1268.8	1015	1353.2	1041	1440.3	1065	1525.4	1089	1614.0
210000	4613	871	888.8	895	967.1	920	1047.1	945	1128.5	970	1211.4	994	1296.4	1019	1380.8	1043	1466.6	1068	1555.6	1091	1643.4
215000	4722	878	910.8	902	989.9	926	1071.4	951	1154.8	974	1237.6	999	1322.0	1023	1408.5	1047	1496.6	1070	1583.7	1094	1674.4
220000	4832	886	934.6	909	1013.9	933	1095.4	956	1178.6	980	1263.8	1004	1351.0	1027	1436.7	1050	1524.6	1074	1615.7	1097	1704.3
230000	5052	902	984.0	924	1064.1	947	1146.4	969	1230.9	992	1317.8	1014	1407.1	1036	1494.8	1059	1584.7	1082	1677.8	1104	1767.9
240000	5272	919	1036.7	940	1117.7	962	1200.9	983	1286.1	1005	1374.0	1026	1464.8	1048	1555.0	1069	1646.6	1091	1741.6	1112	1833.9
250000	5491	936	1094.0	957	1174.7	978	1259.0	998	1345.0	1019	1433.3	1039	1524.7	1060	1617.8	1080	1710.6	1101	1807.0		

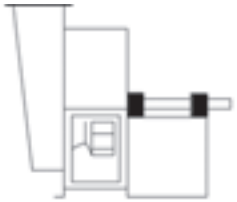
Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Performance shown is for installation type B-Free inlet, Ducted outlet.
Maximum Motor Horsepower: Belt Drive Arrangement 1 - 350 HP, Direct Drive Arrangement 8 - 500 HP. Refer to factory for motor horsepower exceeding these limits.

NORTHERN BLOWER®

SI - Single Inlet **DI -** Double Inlet
SW - Single Width **DW -** Double Width

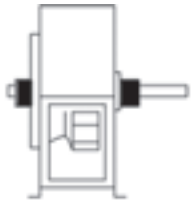


1 SWSI
For belt drive or direct connection. Impeller overhung. Two bearings on base.

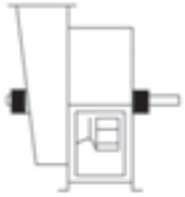


1 SWSI c/w BOX
For belt drive or direct connection. Impeller overhung. Two bearings on base. Inlet box may be self-supporting.

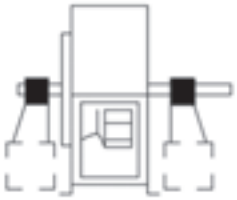
2 SWSI
For belt drive or direct connection. Impeller overhung. Bearings in bracket supported by fan housing.



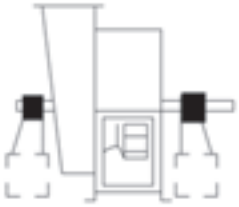
3 SWSI
For belt drive or direct connection. One bearing on each side and supported by fan housing.



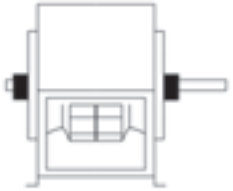
3 SWSI c/w BOX
For belt drive or direct connection. One bearing on each side and supported by fan housing and inlet box. Shaft extending through inlet box.



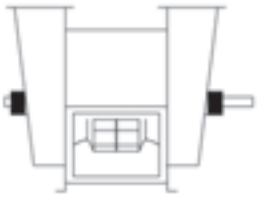
3 SWSI c/w IND. PED.
For belt drive or direct connection. Housing is self-supporting. One bearing on each side supported by independent pedestals.



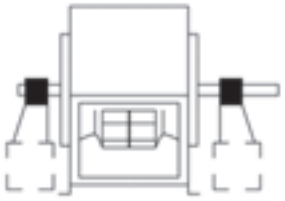
3 SWSI c/w BOX & IND. PED.
For belt drive or direct connection. Housing is self-supporting. One bearing on each side and supported by independent pedestals with shaft extending through inlet box.



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

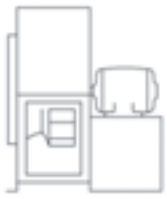


3 DWDI c/w BOXES
For belt drive or direct connection. One bearing on each side and supported by inlet boxes. Shaft extending through inlet boxes.

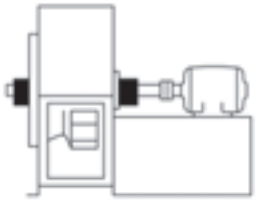


3 DWDI c/w IND. PED.
For belt drive or direct connection. Housing is self-supporting. One bearing on each side and supported by independent pedestals.

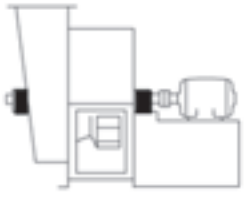
3 DWDI c/w BOXES & IND. PED
For belt drive or direct connection. Housing is self-supporting. One bearing on each side supported by independent pedestals with shaft extending through inlet box.



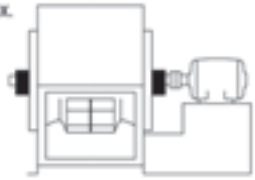
4 SWSI
For direct drive. Impeller overhung on prime mover shaft. No bearings on fan. Prime mover base mounted or integrally directly connected.



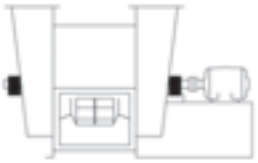
7 SWSI
For belt drive or direct connection. Arrangement 3 plus base for prime mover.



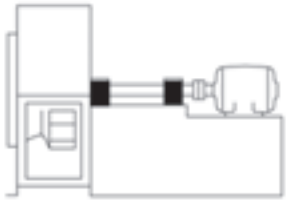
7 SWSI c/w BOX
For belt drive or direct connection. Arrangement 3 plus base for prime mover. Shaft extending through inlet box.



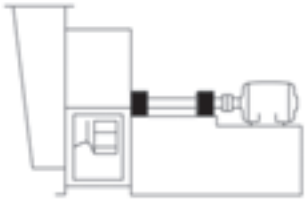
7 DWDI
For belt drive or direct connection. Arrangement 3 plus base for prime mover.



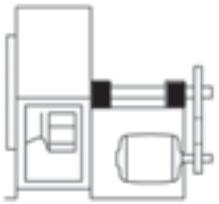
7 DWDI c/w BOXES
For belt drive or direct connection. Arrangement 3 plus base for prime mover. Shaft extending through inlet box.



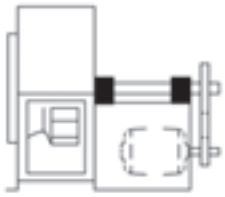
8 SWSI
For belt drive or direct connection. Arrangement 1 plus extended base for prime mover.



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.

Northern Blower Inc.
901 Regent Avenue West
Winnipeg, Manitoba
Canada R2C 2Z8
204.222.4216
204.222.7601
info@northernblower.com
www.northernblower.com