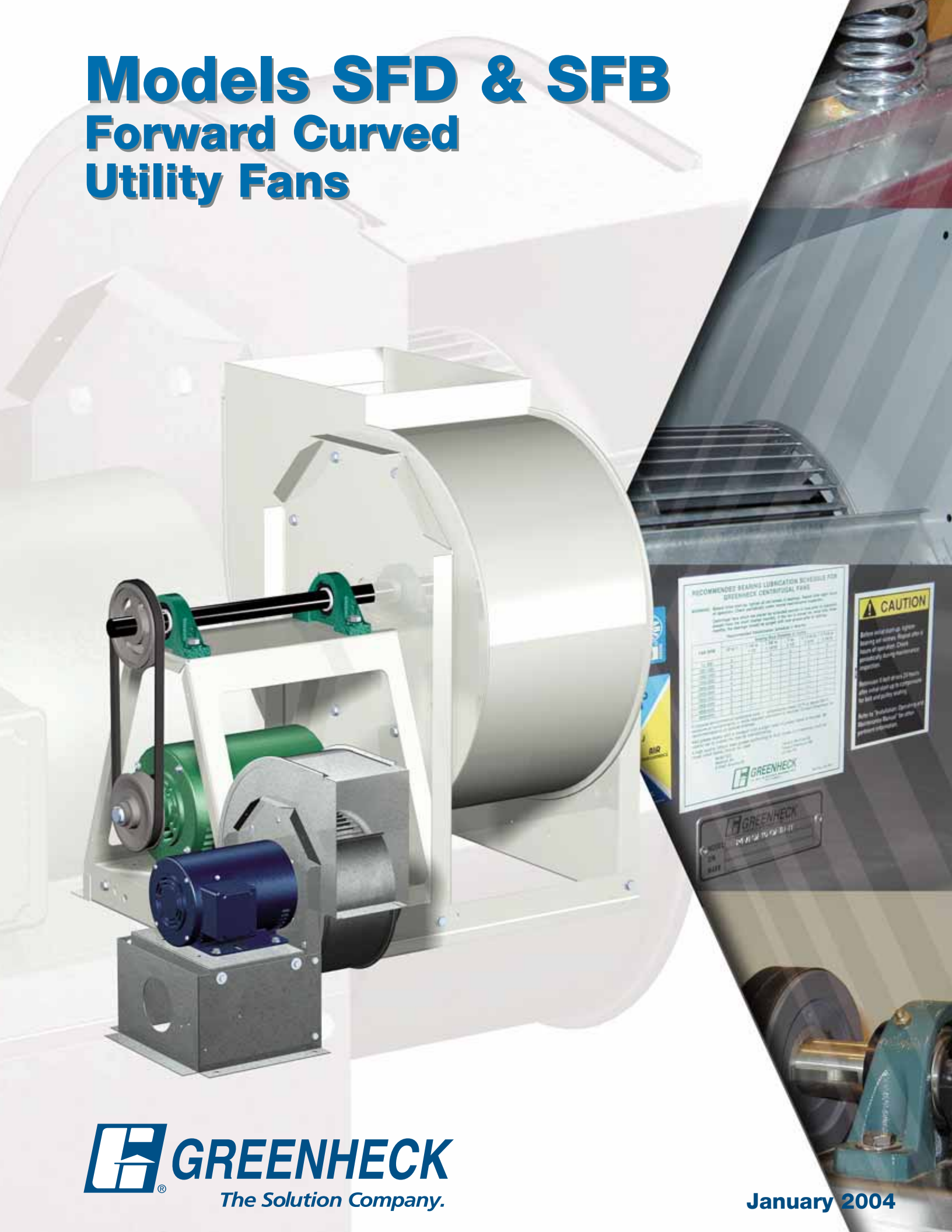
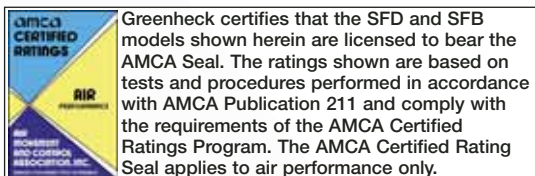


# Models SFD & SFB Forward Curved Utility Fans



Greenheck model SFD and SFB forward curved utility fans have been designed for supply, exhaust, and return air applications requiring low to medium air volumes and pressures. You will receive the following benefits with these fans:

- Performance ranges from 360 cfm to 25,200 cfm with static pressures to 3¼ in. wg.
- Your fan will provide you with smooth, vibration free operation because it is performance tested prior to shipment. Your fan's performance data is recorded and stored to provide installation assistance.
- Fan location mountings are unlimited. The fan may be mounted indoors or outdoors.
- All fan sizes are tested in our AMCA Accredited Laboratory, and all models are licensed to bear the AMCA air performance seal. Performance as cataloged is assured.



Greenheck utility fans are designed, engineered and tested to provide years of dependable service with minimal maintenance. Extensive testing in Greenheck's AMCA research and development facility ensures complete and accurate performance ratings.



SFD and SFB models are Listed for electrical (UL/cUL 705) File No. E40001.

## Quick Delivery Programs

Where rapid response time is required, our Quick Delivery program enables us to ship from hundreds of in-stock ventilation products and accessories to your job site, in less than 24 hours from our four strategically located warehouses. You can speed up the process even more by ordering your units over the Internet using QD Online at [www.greenheck.com/qd](http://www.greenheck.com/qd)



## Quick Build Programs

All SFD and SFB models can be ordered on our 5 or 10 day Quick Build (QB) Program. Our Quick Build Program allows units to be built to your exact job specifications.

## Leading Edge Technical Support

When you need extensive product and IOM (Installation and Operating Manual) information, our products are supported by the industry's best product literature, electronic media, and computer aided selection program (CAPS). You'll also find this information on our website at [www.greenheck.com](http://www.greenheck.com)

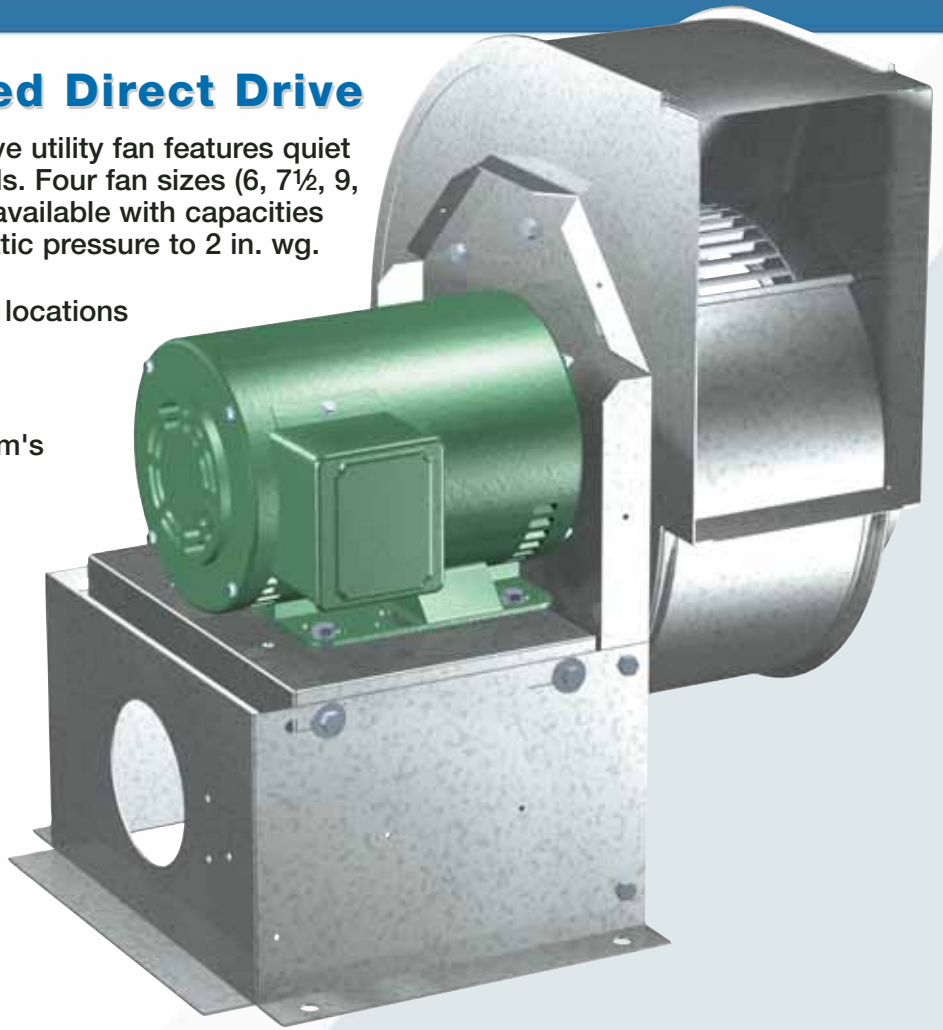


You can always count on personal service and expertise from our national and international representative organization. To locate your nearest Greenheck representative, call 715-359-6171 or visit our website at [www.greenheck.com](http://www.greenheck.com)

## SFD Forward Curved Direct Drive

Greenheck's Model SFD direct drive utility fan features quiet and efficient forward curved wheels. Four fan sizes (6, 7½, 9, and 10 inch wheel diameters) are available with capacities from 232 cfm to 2,641 cfm and static pressure to 2 in. wg.

- Compact size to fit in restricting locations
- Low maintenance construction
- Fast wheel rotation for higher cfm's
- Energy efficient operation



## SFB Forward Curved Belt Drive

Model SFB forward curved utility fans are available in ten sizes (9 - 30) with capacities from 300 cfm to 20,000 cfm and static pressures to 2½ in. wg.

Forward curved utility fans operate at a relatively lower RPM and provide relatively high cfm at low static pressures. The advantages are low sound levels and a wide operating range.

- Quiet operation
- Lower starting torque
- Adjustable RPM's for ease of system balancing



## DIRECT DRIVE

Model SFD Arrangement 4, single width, forward curved, utility fans feature:

### Wheels

Forward curved wheels are constructed of heavy gauge aluminum with uniform stamped blades for quiet operation. Wheels are mounted directly on the motor shaft.

### Housing

Utility fan housings are constructed of galvanized steel with airtight lock formed seams. Housings are available in clockwise (CW) and counter-clockwise (CCW) rotations and can be rotated in the field to the eight standard discharge positions. For outdoor installation, an optional weatherhood is available to protect the motor.

### Inlet Cones

A streamlined inlet cone provides low turbulence airflow reducing inlet losses and sound level.



### Motors

Permanently lubricated, heavy duty ball bearing motors are carefully matched to the fan load. Open drip proof, totally enclosed, and explosion proof enclosures are available.



### Housing and Drive Frame Finish

All structural steel parts are phosphatized and coated with Greenheck's Permator for a long lasting finish.

### Wheels

Forward curved wheels are constructed of die formed steel blades securely riveted to a steel back plate and rim. Each wheel is statically and dynamically balanced to precise tolerances.

### Drives

Drives are sized for a minimum of 150% of driven horsepower. Machined cast iron motor pulleys are factory set to the required RPM and adjustable for final system balancing.

### Motors

Heavy duty ball bearing motors are carefully matched to the fan load. Open drip proof, totally enclosed, and explosion proof enclosures are available.

## BELT DRIVE

Model SFB Arrangement 10, single width, forward curved utility fans feature:

### Inlet Cones

The streamlined steel inlet cone design provides a low turbulence air intake. This reduces intake losses and sound levels.

### Housing

Utility fan housings are constructed of heavy gauge steel. They are available in CW or CCW rotation and are field rotatable to the eight standard discharge positions. Housing sides are bonded to the fan scroll with an airtight lock formed seam.

### Housing Supports and Drive Frame

Housing supports are constructed of structural steel with formed flanges for extra strength. Rugged welded steel drive frame members support the shaft and bearings and provide rigid reinforcement for the housing. A pivoting motor plate with adjusting screws makes belt adjustment quick and easy. Prepunched mounting holes are provided for ease of installation.

### Shafts and Bearings

Precision turned, ground and polished solid steel shafts are sized so the first critical speed is at least 25% over the maximum operating speed. Permanently sealed, pillow block ball bearings are selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating conditions.



### Weatherhoods

Weatherhoods are available to completely cover the motor and drive compartments; protecting shaft and bearings, motor and drive components from moisture and other adverse conditions. Weatherhoods are vented to provide sufficient motor cooling.

### Special Coatings

A wide selection of protective coatings is available for application to fans exposed to corrosive atmospheres.

### Access Doors

To provide access for inspection and cleaning of SFB fans, a bolted access door is available.

### Drain Connection

A 1 inch diameter, threaded drain connection with a plug can be provided to drain moisture from the bottom on the SFB fan housing.

### Inlet and Outlet Guards

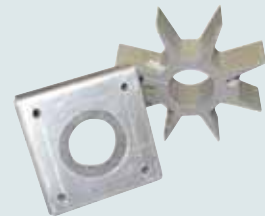
Inlet and outlet guards constructed of expanded metal and mounted in a steel frame provide protection for non-ducted installations. The guards can be easily removed for maintenance or inspection.

### Flanged Inlet and Outlet

Inlet and outlet flanges are available on SFB fans for damper mounting or flanged duct connections.

### Heat Slinger and Shaft Seal

The heat slinger is an aluminum cooling disc mounted on the fan's shaft between the inboard bearing and the fan housing. The disc dissipates heat that is conducted along the fan shaft. The shaft seal with an aluminum rub ring is available for applications where contaminated or high temperature air is being handled. This shaft seal is not gas tight.



### Belt Guards

Sturdy fabricated steel belt guards provide protection from rotating pulleys and belts.

### Backdraft Dampers

Gravity or motorized parallel blade backdraft dampers can be provided. These dampers feature sturdy galvanized frames with prepunched mounting holes, aluminum blades with felt edges, and balanced design for minimal resistance to airflow. Backdraft dampers are not suitable for downblast or bottom angular down discharge positions. To install a backdraft damper, the fan must be supplied with a flanged outlet.

### Isolation

Base mounted neoprene or housed spring isolators are available to reduce mechanical vibration and assure quiet operation. The SFD is available with ¼ in. deflection neoprene isolators and the SFB is offered with the same ¼ in. deflection neoprene isolators along with free standing, restrained, and housed spring isolation. Isolators are sized to match the weight of individual fan sizes.

This catalog contains comprehensive air performance data for Greenheck's forward curved utility fans. Air performance is shown in both fan tables and fan curves.

## Selection

The first consideration in any fan selection is the amount of air to be moved and the resistance to this air movement. Air volume requirements are established through specific codes or accepted industry standards. Once the air volume is known, system resistance can be determined by summing up the losses through the system components. Duct layout, duct size, coil, filters, dampers, and fan accessories all affect system resistance. "ASHRAE Guide and Data Books" and manufacturer's data on individual system components are common sources of information available to the system designer.

In most applications, several fans may meet the required airflow and system resistance conditions. An optimum fan selection requires evaluation of alternative fan types and fan sizes, as they relate to initial cost, operating cost, available space, and allowable sound levels. The relative importance of these facts varies with each system.

Forward curved utility fans travel at a relatively slow speed and produce relatively high volumes at low static pressures. The forward curved fan will surge but the magnitude is typically less than backward inclined fans. Advantages are slow speed, low sound levels, and a wide operating range. The disadvantage is an overloading horsepower curve, which can cause motor overloading with a decrease in system static pressure.

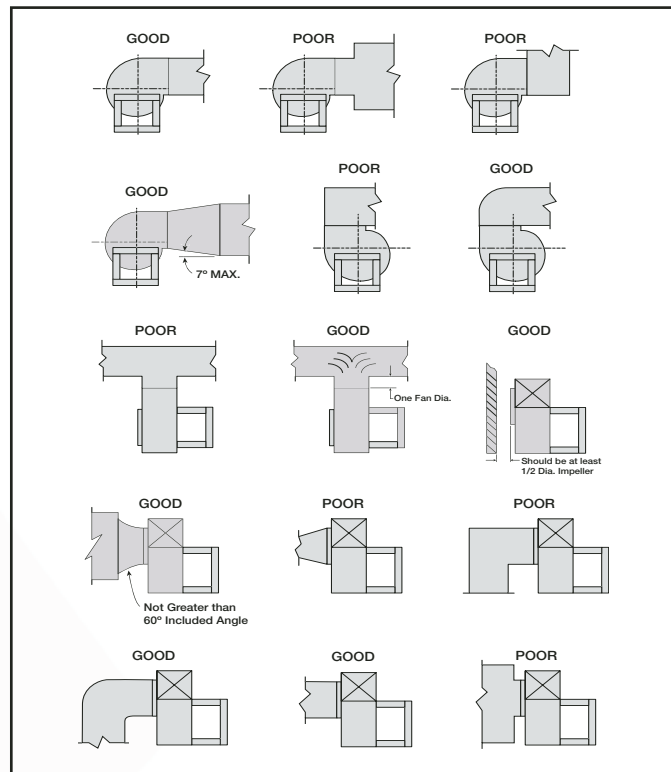
Larger fans tend to turn slower and generate less noise. These fans generally have lower operating costs, however, this may be offset by higher initial costs when compared to a smaller fan. For a given application, a smaller fan will have a higher speed and a steeper performance curve. The steeper performance curve minimizes airflow changes in the system as system resistance varies.

## Effects of Installation on Performance

Ratings presented in the performance tables and curves of this catalog are in accordance with AMCA Standard 210 - Laboratory Methods of Testing Fans for Aerodynamic Performance Rating. The AMCA test procedure utilizes an open inlet and a straight outlet duct to assure maximum static regain.

Any installation with inlet or discharge configurations that deviate from this standard may result in reduced fan performance. Restricted or unstable flow at the fan inlet can cause pre-rotation of incoming air or uneven loading of the fan wheel, yielding large system losses and increased sound levels. Free discharge or turbulent flow in the discharge ductwork will also result in system effect losses.

The examples below show the system layout and inlet and discharge configuration which can affect fan performance.



## HIGH TEMPERATURE LIMITS

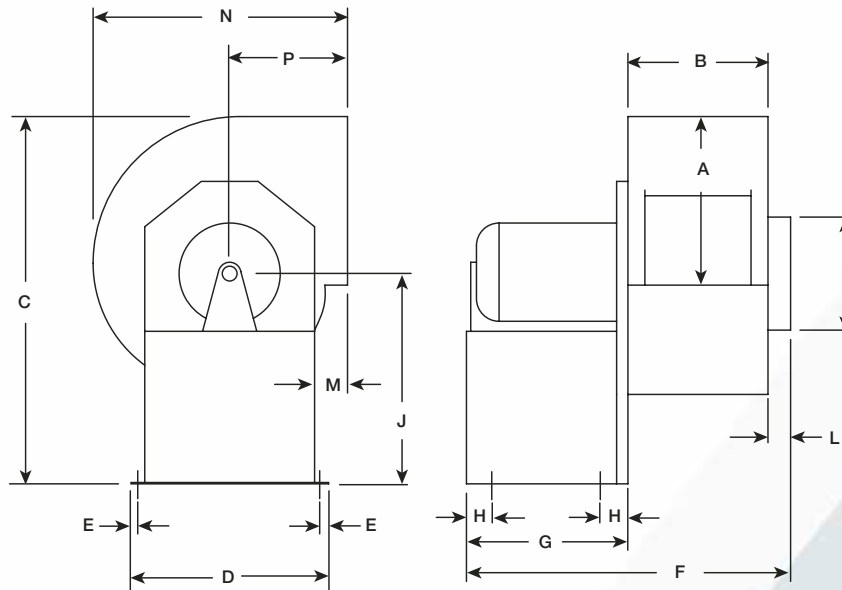
The maximum allowable wheel RPMs shown on the fan performance pages are for fans of standard construction, operating at 70°F. Since the strength of the fan wheels, shapes and bearings decreases with an increase in temperature, the maximum allowable speed must be multiplied by the following RPM correction factors; 0.97 at 200°F and 0.95 at 300°F.

High temperature operating limits and construction required are shown.

OPERATING TEMPERATURE	CONSTRUCTION
-20° to 200° F	Standard
201° to 300° F	Heat Slinger Shaft Seal

The maximum allowable operating temperature is 200°F for the Model SFD. The maximum allowable operating temperature is 300°F for Model SFB. For temperatures between 301° and 750°F a 200 Series SWB must be used in one of the following arrangements (1, 9 or 10)

## DIMENSIONAL DATA



Model SFD	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Max. Motor Frame Size	Weight* (lbs.)
6	7 3/8	5 1/4	16	11	5/8	14 11/16	8 3/16	1 1/16	9 1/16	6	1 1/4	7/8	11 1/4	5 3/16	56	30
7.5	9	5 1/4	18 1/16	12 1/4	5/8	14 5/16	8 1/8	1 1/16	9 5/8	8	1 1/4	1 1/8	13 11/16	6 3/8	56	40
9	10 1/8	6 1/4	20 5/16	13 3/4	5/8	17 7/8	10 3/8	1 1/16	10 3/4	10	1 1/4	1 3/8	15 13/16	7 7/16	145T	75
10	12 1/8	6 3/4	24 5/16	16 1/4	9/16	19 3/8	11 3/8	1 1/16	12 3/4	12	1 1/4	1 3/8	18 5/8	8 1/2	184T	113

\* Approximate unit weight with largest frame size motor (60 Hz).

For discharge rotations and dimensions, see page 18.

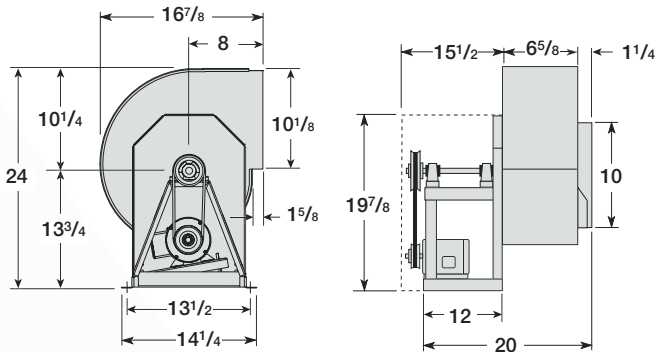
## PERFORMANCE DATA

(Performance shown is for SFD with outlet ducts)

Model SFD	RPM	HP	Static Pressure in Inches																	
			.125		.250		.500		.750		1.00		1.25		1.50		2.00		2.50	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
6-6B	1140	1/6	407	.06	338	.05														
6-4A	1725	1/4	667	.24	638	.22	541	.17	424	.13										
7.5-6B	1140	1/6	672	.16	612	.14	467	.10												
7.5-5A	1725	1/2	1062	.59	1028	.56	949	.50	869	.46	775	.38	636	.30						
9-4C	860	1/4	839	.18	748	.15	487	.09												
9-5B	1140	1/2	1159	.46	1097	.42	957	.34	782	.26										
9-15A	1725	1 1/2	1806	1.64	1765	1.59	1683	1.48	1595	1.36	1502	1.24	1407	1.13	1298	1.01	989	.70		
10-3C	860	1/3	1259	.36	1176	.32	965	.25												
10-7B	1140	3/4	1713	.86	1653	.82	1528	.72	1378	.64	1163	.52								
10-30A	1725	3	2641	3.03	2603	2.98	2525	2.87	2444	2.73	2362	2.60	2275	2.44	2179	2.32	1942	2.01	1621	1.62

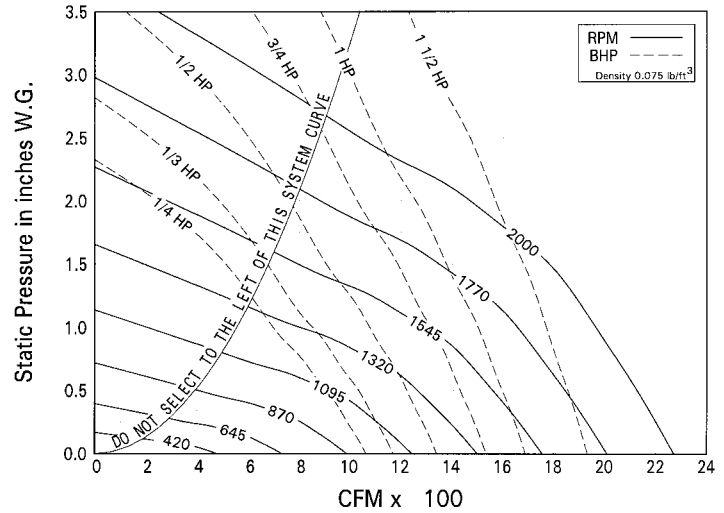
Performance shown is for installation Type B - Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream.

Due to Greenheck's policy of continuous product improvement, dimensions are subject to change. For complete dimensional information, refer to the Greenheck CAPS program.



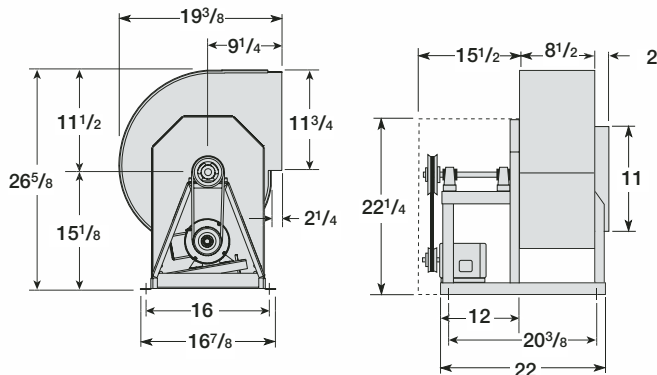
Wheel Diameter = 9 1/2 in.  
 Shaft Diameter = 3/4 in.  
 Outlet Area = .454 ft<sup>2</sup>  
 Max Motor Frame Size = 143T

Tip Speed = 2.49 x RPM  
 BHP = (RPM/1747)<sup>3</sup>  
 Max RPM = 2000



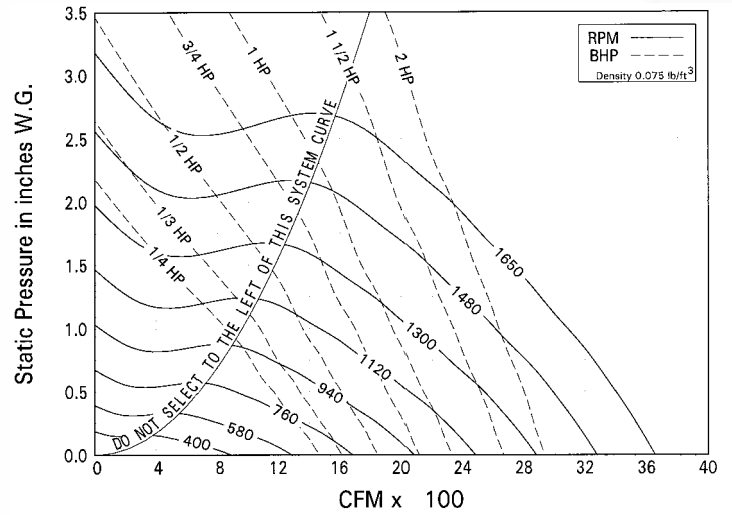
CFM	OV	Static Pressure in Inches																				
		0.25		0.5		0.75		1.0		1.25		1.5		1.75		2.0		2.25		2.5		
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
360	792	644	0.03																			
420	925	666	0.04	876	0.07																	
480	1057	689	0.05	899	0.09																	
540	1189	718	0.06	923	0.10	1082	0.14															
600	1321	748	0.08	945	0.12	1106	0.16	1241	0.20													
660	1453	780	0.09	966	0.14	1129	0.18	1264	0.23	1383	0.28											
720	1585	814	0.11	994	0.16	1152	0.21	1287	0.26	1406	0.31	1514	0.36									
780	1718	852	0.14	1023	0.19	1173	0.24	1311	0.29	1430	0.35	1537	0.40	1636	0.46							
840	1850	895	0.16	1053	0.22	1197	0.27	1333	0.33	1453	0.39	1560	0.45	1659	0.51	1751	0.57	1837	0.62			
900	1982	939	0.20	1085	0.25	1226	0.30	1354	0.36	1476	0.43	1584	0.49	1683	0.56	1775	0.62	1861	0.69	1942	0.75	
960	2114	983	0.23	1118	0.28	1256	0.34	1378	0.40	1498	0.47	1608	0.54	1706	0.61	1798	0.68	1884	0.75	1966	0.82	
1020	2246	1028	0.27	1152	0.32	1286	0.39	1407	0.45	1519	0.52	1629	0.59	1730	0.67	1821	0.74	1908	0.81	1989	0.89	
1080	2378	1075	0.31	1188	0.37	1317	0.44	1436	0.50	1543	0.57	1651	0.65	1752	0.73	1845	0.80	1931	0.88			
1140	2511	1121	0.36	1231	0.42	1350	0.49	1466	0.56	1572	0.63	1673	0.70	1773	0.79	1868	0.87	1955	0.95			
1200	2643	1169	0.42	1274	0.48	1383	0.55	1496	0.62	1602	0.70	1699	0.77	1795	0.85	1889	0.94	1978	1.03			
1260	2775	1216	0.48	1318	0.54	1417	0.61	1528	0.69	1631	0.77	1728	0.84	1818	0.92	1911	1.01	1999	1.10			
1320	2907	1264	0.54	1362	0.61	1453	0.67	1561	0.76	1661	0.84	1757	0.92	1846	1.00	1933	1.08					
1380	3039	1313	0.61	1407	0.68	1496	0.75	1594	0.83	1693	0.92	1787	1.01	1876	1.09	1959	1.17					
1440	3171	1361	0.69	1452	0.76	1539	0.83	1627	0.91	1725	1.01	1817	1.10	1905	1.19	1988	1.27					
1500	3303	1410	0.77	1498	0.85	1583	0.92	1661	0.99	1758	1.10	1848	1.19	1935	1.29							

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



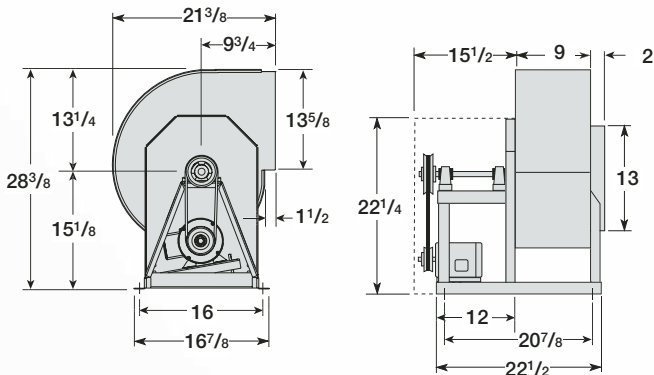
Wheel Diameter =  $10\frac{5}{8}$  in.  
Shaft Diameter =  $\frac{3}{4}$  in.  
Outlet Area = 0.705 ft<sup>2</sup>  
Max Motor Frame Size = 145T

Tip Speed =  $2.78 \times \text{RPM}$   
BHP =  $(\text{RPM}/1310)^3$   
Max RPM = 1650



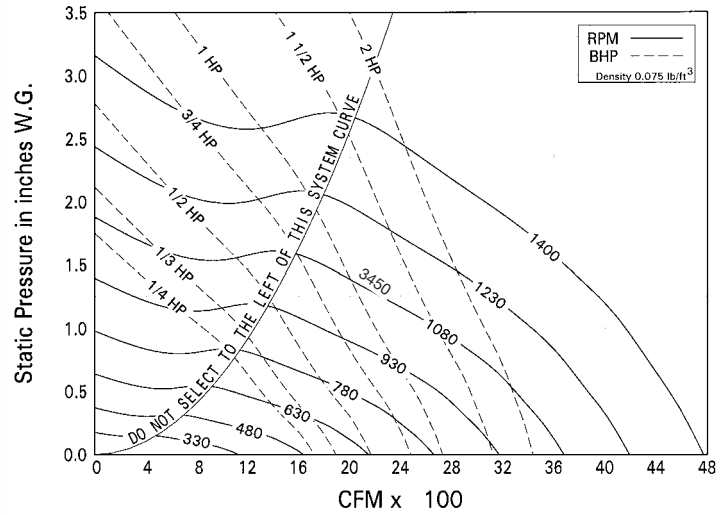
CFM	OV	Static Pressure in Inches																			
		0.25		0.5		0.75		1.0		1.25		1.5		1.75		2.0		2.25		2.5	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	851	526	0.05																		
700	993	551	0.07	718	0.11																
800	1135	578	0.08	732	0.13																
900	1277	607	0.11	757	0.16	885	0.21														
1000	1419	639	0.13	782	0.19	902	0.24	1017	0.30												
1100	1561	670	0.16	809	0.23	926	0.29	1030	0.35	1135	0.41										
1200	1703	703	0.20	836	0.26	952	0.34	1052	0.40	1148	0.47	1242	0.54								
1300	1845	738	0.24	868	0.31	978	0.39	1077	0.46	1166	0.53	1256	0.60	1343	0.69						
1400	1986	774	0.29	899	0.37	1005	0.44	1102	0.53	1191	0.60	1272	0.67	1356	0.76	1437	0.85				
1500	2128	810	0.34	931	0.43	1034	0.51	1129	0.60	1216	0.68	1296	0.76	1370	0.84	1450	0.93	1526	1.02		
1600	2270	846	0.41	962	0.49	1065	0.58	1155	0.67	1241	0.77	1321	0.86	1395	0.94	1464	1.02	1539	1.12	1611	1.22
1700	2412	883	0.47	995	0.57	1097	0.66	1183	0.75	1268	0.86	1346	0.96	1420	1.05	1489	1.14	1554	1.22	1624	1.32
1800	2554	922	0.55	1030	0.65	1128	0.75	1215	0.85	1295	0.95	1372	1.06	1445	1.16	1514	1.26	1578	1.35	1640	1.44
1900	2696	961	0.63	1066	0.74	1160	0.85	1247	0.95	1323	1.05	1399	1.17	1471	1.28	1539	1.39	1603	1.49		
2000	2838	1001	0.73	1102	0.84	1192	0.95	1278	1.06	1354	1.17	1426	1.28	1497	1.40	1564	1.53	1628	1.64		
2100	2980	1042	0.83	1138	0.95	1225	1.06	1309	1.18	1386	1.30	1455	1.40	1524	1.53	1590	1.66				
2200	3122	1082	0.94	1174	1.07	1260	1.19	1341	1.31	1418	1.44	1486	1.55	1551	1.66	1617	1.80				
2300	3264	1124	1.07	1211	1.19	1296	1.33	1373	1.44	1449	1.58	1518	1.71	1582	1.82	1644	1.95				
2400	3406	1165	1.21	1248	1.33	1332	1.47	1406	1.59	1480	1.73	1550	1.87	1613	2.00						
2500	3548	1207	1.36	1285	1.48	1368	1.63	1441	1.76	1512	1.90	1581	2.04	1645	2.18						

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



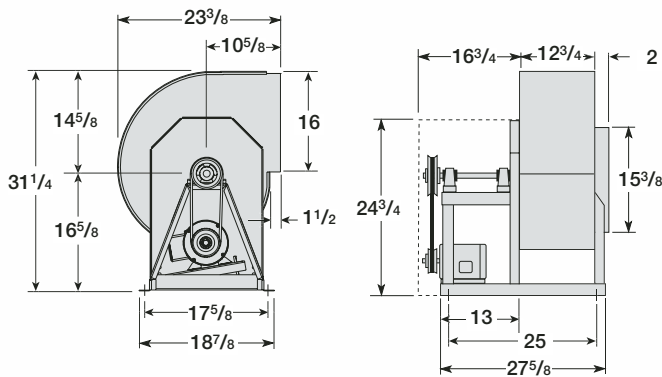
Wheel Diameter =  $12\frac{5}{8}$  in.  
 Shaft Diameter =  $\frac{3}{4}$  in.  
 Outlet Area = 0.856 ft<sup>2</sup>  
 Max Motor Frame Size = 145T

Tip Speed = 3.30 x RPM  
 BHP =  $(\text{RPM}/1111)^3$   
 Max RPM = 1400



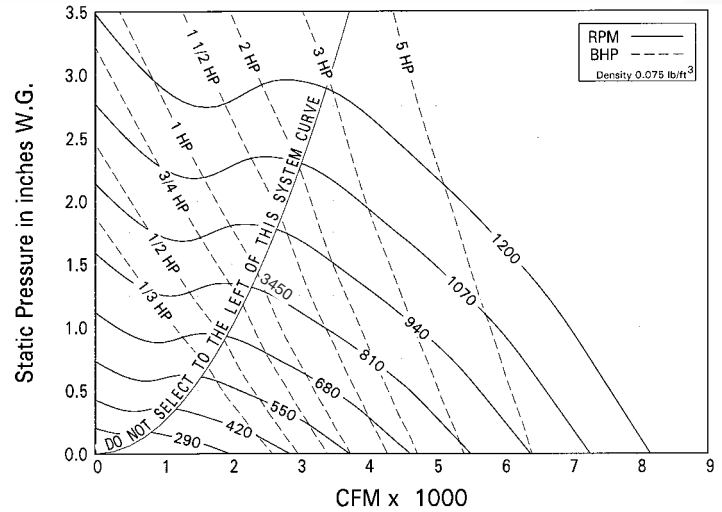
CFM	OV	Static Pressure in Inches																				
		0.25		0.5		0.75		1.0		1.25		1.5		1.75		2.0		2.25		2.5		
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
825	964	455	0.07																			
950	1110	474	0.09	619	0.15																	
1075	1256	494	0.12	632	0.18																	
1200	1402	515	0.15	649	0.22	762	0.29															
1325	1548	537	0.18	668	0.26	776	0.33	873	0.41													
1450	1694	561	0.22	688	0.31	792	0.39	887	0.47	973	0.56											
1575	1841	586	0.27	708	0.36	811	0.45	901	0.54	986	0.63	1064	0.73									
1700	1987	613	0.32	729	0.42	830	0.52	918	0.61	1000	0.71	1078	0.82	1149	0.92							
1825	2133	641	0.38	750	0.49	850	0.60	937	0.70	1015	0.80	1091	0.91	1163	1.02	1229	1.13					
1950	2279	669	0.45	774	0.56	871	0.68	957	0.79	1034	0.90	1105	1.00	1176	1.13	1243	1.24	1305	1.36			
2075	2425	699	0.53	799	0.65	892	0.77	977	0.89	1053	1.01	1123	1.12	1190	1.24	1257	1.37	1319	1.49	1378	1.61	
2200	2571	730	0.62	824	0.74	913	0.87	997	1.00	1073	1.12	1142	1.25	1207	1.36	1270	1.49	1333	1.63	1392	1.76	
2325	2717	763	0.71	849	0.84	936	0.98	1018	1.12	1093	1.25	1162	1.38	1226	1.51	1286	1.63	1347	1.77			
2450	2863	795	0.82	877	0.95	960	1.10	1039	1.24	1113	1.39	1182	1.52	1245	1.66	1305	1.80	1362	1.92			
2575	3009	827	0.94	905	1.07	985	1.22	1060	1.38	1134	1.53	1202	1.68	1265	1.82	1324	1.97	1381	2.11			
2700	3156	861	1.08	933	1.21	1010	1.36	1084	1.53	1155	1.69	1222	1.85	1285	1.99	1344	2.15	1400	2.30			
2825	3302	894	1.22	962	1.35	1035	1.51	1108	1.68	1176	1.85	1243	2.02	1305	2.18	1364	2.33					
2950	3448	928	1.38	992	1.51	1063	1.67	1133	1.85	1199	2.03	1264	2.21	1326	2.38	1384	2.54					
3075	3594	961	1.55	1024	1.69	1091	1.85	1157	2.03	1223	2.22	1285	2.40	1346	2.59							
3200	3740	995	1.73	1056	1.88	1119	2.04	1183	2.22	1247	2.42	1307	2.61	1367	2.81							

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



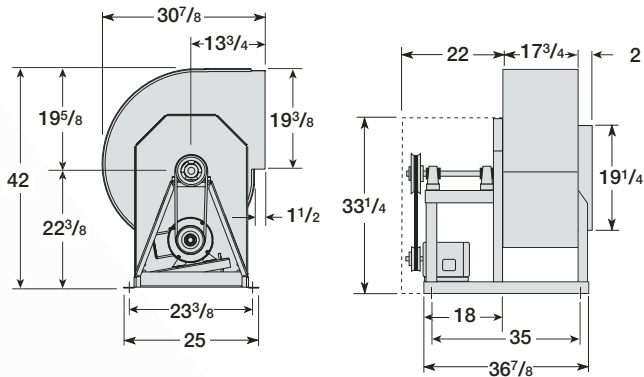
Wheel Diameter = 15 in.  
Shaft Diameter = 1 in.  
Outlet Area = 1.39 ft<sup>2</sup>  
Max Motor Frame Size = 184T\*  
\*184T Open Frame Motor

Tip Speed = 3.93 x RPM  
BHP = (RPM/720)<sup>3</sup>  
Max RPM = 1200



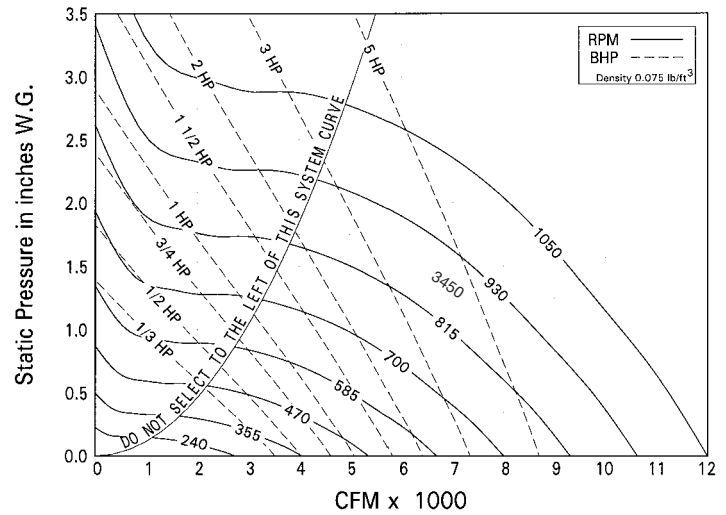
CFM	OV	Static Pressure in Inches																			
		0.25		0.5		0.75		1.0		1.25		1.5		1.75		2.0		2.5		2.75	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1560	1125	395	0.16	508	0.25																
1720	1241	409	0.20	518	0.29																
1880	1356	423	0.23	531	0.34	620	0.44														
2040	1472	438	0.28	544	0.39	630	0.50	709	0.61												
2200	1587	454	0.33	557	0.45	641	0.57	718	0.69												
2360	1702	471	0.39	572	0.52	655	0.65	728	0.78	797	0.90										
2520	1818	488	0.45	586	0.59	668	0.74	739	0.87	807	1.01	869	1.14								
2680	1933	506	0.52	600	0.67	682	0.82	752	0.97	817	1.12	879	1.26	936	1.40						
2840	2049	523	0.60	615	0.76	696	0.92	765	1.08	828	1.23	889	1.39	946	1.54	999	1.68				
3000	2164	542	0.68	631	0.86	710	1.03	779	1.20	841	1.36	898	1.52	956	1.69	1009	1.84				
3160	2280	560	0.78	647	0.96	724	1.14	793	1.32	855	1.50	911	1.67	965	1.84	1019	2.01	1116	2.33		
3320	2395	580	0.88	664	1.08	739	1.26	807	1.45	868	1.64	924	1.83	977	2.00	1029	2.18	1126	2.53	1171	2.70
3480	2511	600	1.00	681	1.20	754	1.39	821	1.60	882	1.79	938	1.99	990	2.18	1038	2.36	1136	2.74	1181	2.92
3640	2626	621	1.13	698	1.34	770	1.54	835	1.75	896	1.96	951	2.16	1003	2.36	1051	2.56	1145	2.95	1191	3.14
3800	2742	641	1.26	716	1.48	786	1.70	850	1.90	910	2.13	965	2.34	1016	2.56	1065	2.77	1155	3.17		
3960	2857	662	1.41	734	1.63	802	1.86	865	2.07	924	2.31	979	2.54	1030	2.76	1078	2.98	1166	3.40		
4120	2973	683	1.57	752	1.80	819	2.04	881	2.27	938	2.50	993	2.74	1043	2.97	1091	3.21	1180	3.66		
4280	3088	704	1.74	770	1.97	836	2.23	897	2.47	953	2.70	1007	2.96	1057	3.20	1105	3.44	1193	3.92		
4440	3203	725	1.92	789	2.16	853	2.43	913	2.68	968	2.92	1021	3.18	1071	3.44	1118	3.69				
4600	3319	747	2.11	809	2.37	871	2.64	929	2.91	984	3.16	1036	3.41	1086	3.69	1132	3.95				

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



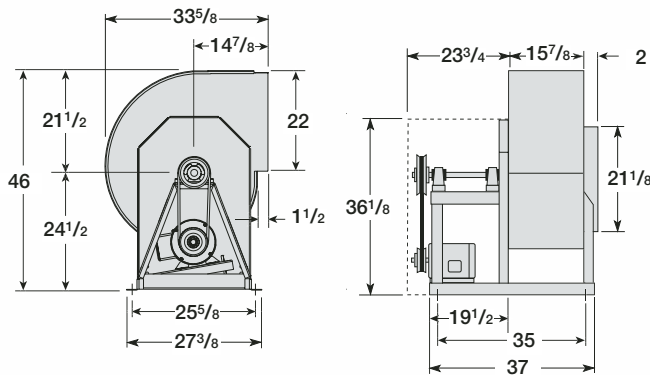
Wheel Diameter = 18 1/8 in.  
 Shaft Diameter = 1 in.  
 Outlet Area = 2.29 ft<sup>2</sup>  
 Max Motor Frame Size = 184T

Tip Speed = 4.75 x RPM  
 BHP = (RPM/614)<sup>3</sup>  
 Max RPM = 1050



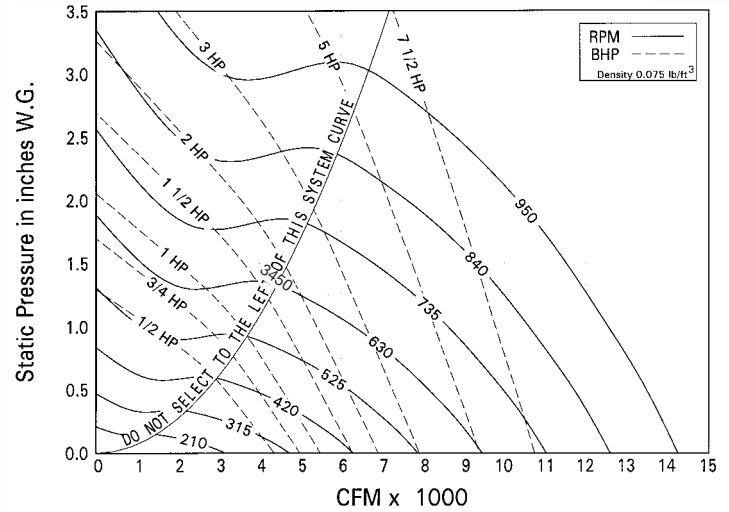
CFM	OV	Static Pressure in Inches																			
		0.25		0.5		0.75		1.0		1.25		1.5		1.75		2.0		2.25		2.5	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2725	1188	364	0.29	464	0.44	550	0.60														
2950	1286	377	0.34	473	0.50	557	0.68	630	0.85												
3175	1384	390	0.40	483	0.57	564	0.75	636	0.94												
3400	1483	403	0.46	492	0.64	571	0.83	643	1.04	707	1.24										
3625	1581	418	0.54	503	0.72	580	0.93	650	1.14	714	1.35	771	1.56								
3850	1679	433	0.62	515	0.82	589	1.03	657	1.24	720	1.48	778	1.70								
4075	1777	449	0.71	528	0.92	599	1.14	665	1.36	727	1.60	785	1.85	838	2.08						
4300	1875	464	0.81	541	1.03	609	1.25	674	1.49	734	1.73	791	2.00	845	2.25	894	2.50				
4525	1973	480	0.92	553	1.15	620	1.38	684	1.63	742	1.88	798	2.15	851	2.42	901	2.69	947	2.95		
4750	2071	496	1.04	567	1.27	633	1.53	693	1.78	752	2.05	805	2.31	858	2.60	907	2.88	954	3.16	998	3.43
4975	2170	512	1.17	581	1.42	645	1.68	703	1.93	761	2.22	814	2.49	865	2.78	914	3.08	961	3.38	1005	3.67
5200	2268	529	1.31	596	1.57	658	1.84	715	2.11	771	2.40	823	2.69	872	2.96	921	3.28	967	3.60	1011	3.91
5425	2366	546	1.47	611	1.74	671	2.01	727	2.30	780	2.58	833	2.89	881	3.19	928	3.49	974	3.83	1018	4.15
5650	2464	563	1.63	627	1.92	684	2.20	740	2.50	790	2.78	842	3.10	891	3.42	936	3.72	981	4.06	1025	4.40
5875	2562	580	1.81	642	2.11	698	2.39	753	2.71	803	3.01	852	3.32	900	3.66	945	3.98	988	4.30	1032	4.66
6100	2660	597	2.00	658	2.31	712	2.61	765	2.93	815	3.25	862	3.55	910	3.91	955	4.25	997	4.58	1038	4.92
6325	2758	614	2.21	674	2.53	727	2.85	778	3.17	828	3.50	873	3.82	919	4.17	964	4.53	1006	4.88	1047	5.22
6550	2857	631	2.43	689	2.76	743	3.09	791	3.41	840	3.77	886	4.10	929	4.43	974	4.81	1016	5.18		
6775	2955	649	2.66	705	3.00	758	3.35	805	3.67	853	4.04	898	4.40	940	4.73	983	5.11	1025	5.49		
7000	3053	666	2.91	722	3.26	773	3.63	820	3.96	866	4.33	911	4.70	953	5.06	993	5.41	1035	5.82		

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



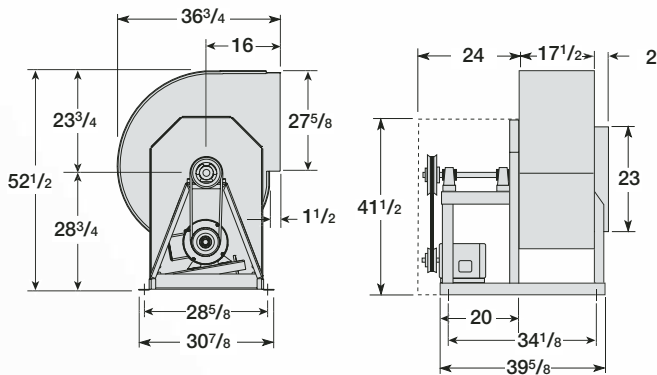
Wheel Diameter = 20 in.  
Shaft Diameter = 1 1/4 in.  
Outlet Area = 2.40 ft<sup>2</sup>  
Max Motor Frame Size = 215T

Tip Speed = 5.24 x RPM  
BHP = (RPM/485)<sup>3</sup>  
Max RPM = 950



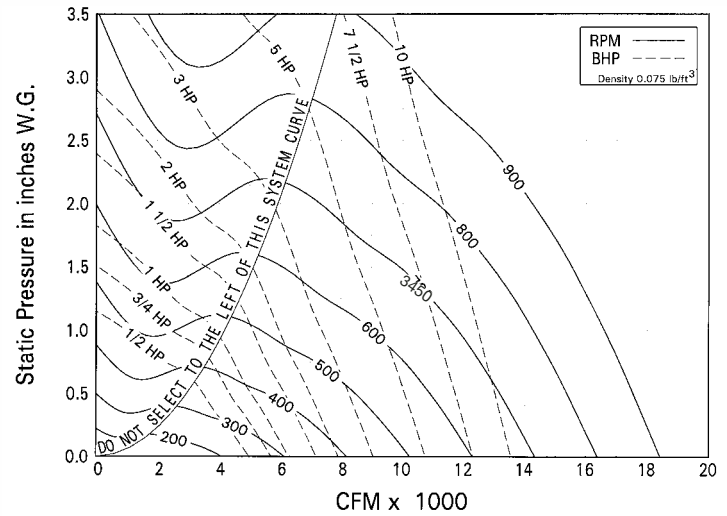
CFM	OV	Static Pressure in Inches																				
		0.25		0.5		0.75		1.0		1.25		1.5		1.75		2.0		2.5		2.75		
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
3275	1362	320	0.37	402	0.53																	
3550	1477	332	0.44	411	0.62	481	0.81															
3825	1591	344	0.52	421	0.71	488	0.91															
4100	1706	357	0.61	431	0.81	495	1.02	555	1.26													
4375	1820	371	0.72	442	0.93	505	1.15	562	1.38	616	1.63											
4650	1935	386	0.83	453	1.05	514	1.29	569	1.52	623	1.79											
4925	2049	400	0.96	465	1.19	524	1.43	579	1.69	629	1.96	678	2.24									
5200	2164	415	1.10	477	1.35	535	1.60	588	1.87	636	2.13	685	2.43	729	2.73							
5475	2278	430	1.25	490	1.51	546	1.78	598	2.05	646	2.34	692	2.63	736	2.95	777	3.26					
5750	2393	445	1.42	503	1.69	557	1.97	608	2.26	655	2.56	699	2.84	743	3.17	784	3.51					
6025	2507	461	1.61	517	1.9	569	2.18	619	2.48	665	2.79	708	3.1	750	3.41	791	3.76					
6300	2621	477	1.81	531	2.11	582	2.41	629	2.72	675	3.03	718	3.36	758	3.68	798	4.03	874	4.75			
6575	2736	493	2.03	545	2.35	594	2.66	641	2.97	685	3.30	727	3.64	768	3.98	805	4.3	880	5.07	915	5.44	
6850	2850	509	2.26	559	2.6	607	2.92	653	3.25	696	3.59	737	3.93	777	4.29	814	4.64	887	5.39	922	5.79	
7125	2965	525	2.52	574	2.86	620	3.20	665	3.55	707	3.89	748	4.24	787	4.61	824	4.98	894	5.73	929	6.14	
7400	3079	542	2.80	589	3.15	634	3.51	677	3.86	718	4.21	758	4.58	796	4.95	833	5.34	902	6.08	936	6.51	
7675	3194	558	3.09	604	3.46	648	3.83	690	4.19	730	4.56	769	4.94	807	5.32	843	5.72	911	6.50	943	6.88	
7950	3308	575	3.41	620	3.79	662	4.18	703	4.54	743	4.93	780	5.31	817	5.71	853	6.11	921	6.94			
8225	3423	591	3.75	635	4.14	677	4.54	716	4.93	755	5.33	792	5.71	828	6.12	863	6.53	930	7.39			
8500	3537	608	4.11	651	4.52	691	4.92	730	5.33	768	5.74	804	6.14	839	6.55	874	6.98	940	7.85			

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



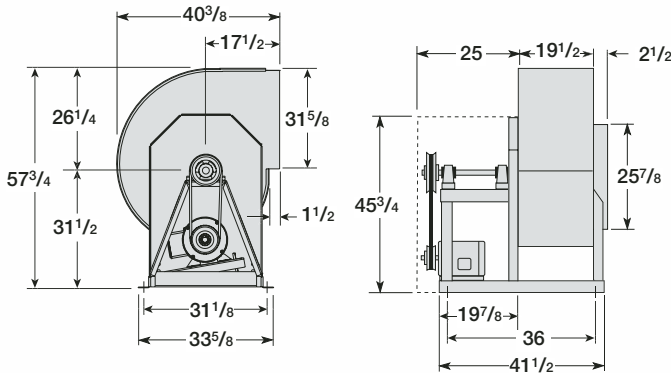
Wheel Diameter = 22<sup>1</sup>/<sub>8</sub> in.  
 Shaft Diameter = 1<sup>1</sup>/<sub>4</sub> in.  
 Outlet Area = 3.23 ft<sup>2</sup>  
 Max Motor Frame Size = 256T

Tip Speed = 5.79 x RPM  
 BHP = (RPM/418)<sup>3</sup>  
 Max RPM = 900



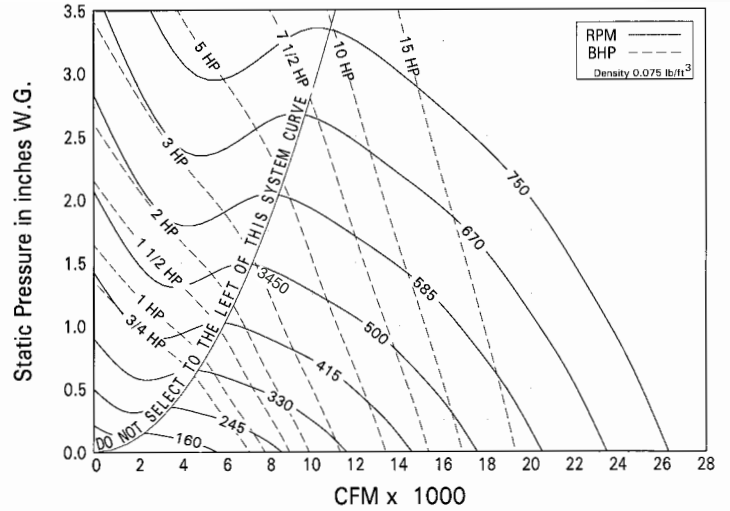
CFM	OV	Static Pressure in Inches																				
		0.25		0.5		0.75		1.0		1.25		1.5		2.0		2.5		3.0		3.25		
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
4000	1240	285	0.44	359	0.64	419	0.83															
4500	1395	300	0.57	373	0.8	430	1.01	481	1.23													
5000	1550	317	0.73	386	0.98	443	1.22	492	1.46	537	1.7											
5500	1705	335	0.92	399	1.19	456	1.47	504	1.72	548	1.98	589	2.25									
6000	1860	354	1.13	413	1.42	470	1.74	517	2.03	559	2.29	600	2.59	675	3.19							
6500	2015	374	1.39	429	1.7	482	2.03	531	2.36	573	2.67	611	2.96	684	3.59							
7000	2170	395	1.69	446	2.01	495	2.35	544	2.73	586	3.07	624	3.39	694	4.06	759	4.72					
7500	2325	416	2.03	464	2.37	511	2.73	557	3.12	600	3.51	638	3.87	705	4.55	769	5.29	828	5.99			
8000	2480	437	2.41	482	2.77	527	3.16	570	3.55	613	3.98	652	4.38	718	5.12	780	5.88	838	6.65	865	7.02	
8500	2635	459	2.84	501	3.22	544	3.62	584	4.03	625	4.48	665	4.93	732	5.75	791	6.5	849	7.35	876	7.76	
9000	2790	481	3.32	521	3.73	561	4.14	601	4.58	638	5.02	677	5.51	746	6.41	804	7.25	859	8.08	887	8.52	
9500	2945	503	3.86	541	4.29	580	4.73	617	5.17	653	5.63	690	6.13	759	7.12	818	8.03	871	8.88	897	9.32	
10000	3100	526	4.46	562	4.91	598	5.36	634	5.82	670	6.31	703	6.79	772	7.87	832	8.85	885	9.78			
10500	3255	549	5.12	583	5.59	617	6.05	652	6.54	686	7.05	719	7.55	785	8.66	846	9.73	899	10.73			
11000	3410	572	5.84	605	6.33	637	6.82	670	7.33	703	7.83	735	8.38	798	9.49	859	10.65					
11500	3565	595	6.63	626	7.13	658	7.65	689	8.17	720	8.7	752	9.26	810	10.36	871	11.62					
12000	3720	618	7.48	648	8	678	8.55	708	9.07	739	9.64	768	10.2	826	11.36	884	12.63					
12500	3875	641	8.41	670	8.94	699	9.52	727	10.07	757	10.65	786	11.22	842	12.44	897	13.7					
13000	4030	664	9.42	692	9.96	720	10.57	748	11.15	776	11.73	804	12.34	859	13.59							
13500	4185	688	10.5	714	11.1	742	11.7	768	12.3	794	12.9	822	13.5	875	14.8							

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



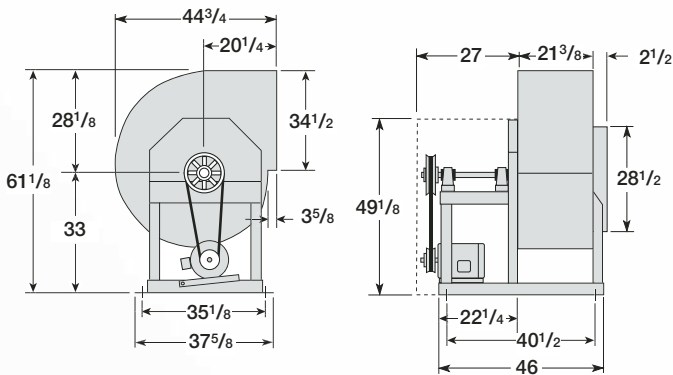
Wheel Diameter = 25 in.  
Shaft Diameter = 1 1/2 in.  
Outlet Area = 4.21 ft<sup>2</sup>  
Max Motor Frame Size = 284T

Tip Speed = 6.54 x RPM  
BHP = (RPM/304)<sup>3</sup>  
Max RPM = 750



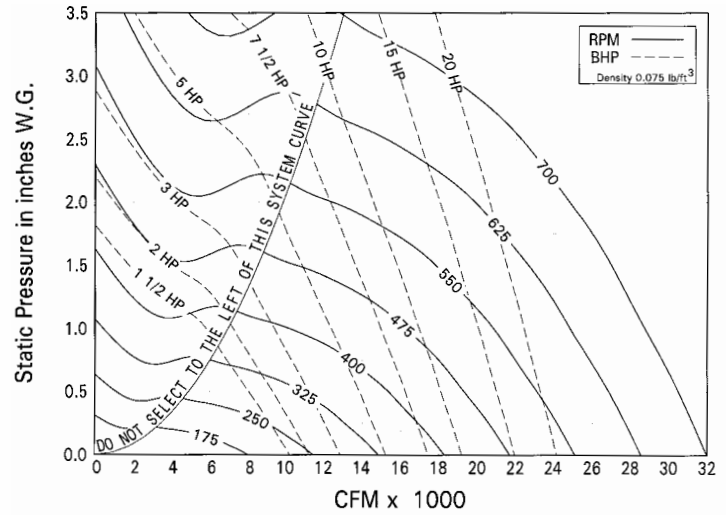
CFM	OV	Static Pressure in Inches																			
		0.25		0.5		0.75		1.0		1.25		1.5		2.0		2.5		3.0		3.25	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6000	1425	246	0.74	310	1.03	363	1.32	413	1.65												
6500	1544	255	0.88	317	1.2	369	1.52	415	1.84												
7000	1663	264	1.04	324	1.39	376	1.74	420	2.07	463	2.44										
7500	1782	274	1.22	332	1.6	382	1.97	426	2.34	465	2.68	506	3.11								
8000	1901	285	1.44	339	1.83	389	2.22	433	2.63	472	3.01	509	3.4								
8500	2020	296	1.67	348	2.09	396	2.51	439	2.93	478	3.36	513	3.75	584	4.67						
9000	2138	308	1.93	357	2.37	403	2.82	446	3.25	484	3.72	520	4.15	586	5.05						
9500	2257	319	2.21	366	2.68	411	3.15	453	3.62	491	4.09	526	4.57	589	5.45	653	6.52				
10000	2376	331	2.53	375	3.01	419	3.51	460	4.02	497	4.48	532	5.01	595	5.97	655	7				
10500	2495	343	2.88	386	3.38	428	3.91	467	4.44	505	4.95	539	5.46	601	6.51	657	7.48	715	8.68		
11000	2614	356	3.27	396	3.79	437	4.34	475	4.87	512	5.44	545	5.94	608	7.07	663	8.1	718	9.25	745	9.87
11500	2733	368	3.69	408	4.23	446	4.8	483	5.36	519	5.95	553	6.5	614	7.66	669	8.77	720	9.83	747	10.49
12000	2851	380	4.14	419	4.71	455	5.28	492	5.89	527	6.48	560	7.09	621	8.26	676	9.46	726	10.57	750	11.12
12500	2970	393	4.63	430	5.21	464	5.79	501	6.45	534	7.04	567	7.69	627	8.88	682	10.18	732	11.37		
13000	3089	406	5.15	441	5.76	475	6.37	510	7.04	543	7.67	575	8.33	634	9.59	689	10.91	738	12.2		
13500	3208	418	5.72	453	6.34	486	7	519	7.66	552	8.35	582	8.99	641	10.35	695	11.67	745	13.04		
14000	3327	431	6.32	465	6.97	497	7.66	528	8.32	560	9.05	590	9.71	649	11.14	701	12.45				
14500	3445	444	6.97	477	7.65	508	8.36	538	9.01	569	9.79	599	10.5	656	11.96	708	13.34				
15000	3564	457	7.68	489	8.38	520	9.1	548	9.8	578	10.56	608	11.32	663	12.8	716	14.28				
15500	3683	471	8.43	501	9.15	531	9.88	559	10.62	588	11.37	617	12.18	671	13.68	723	15.26				

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



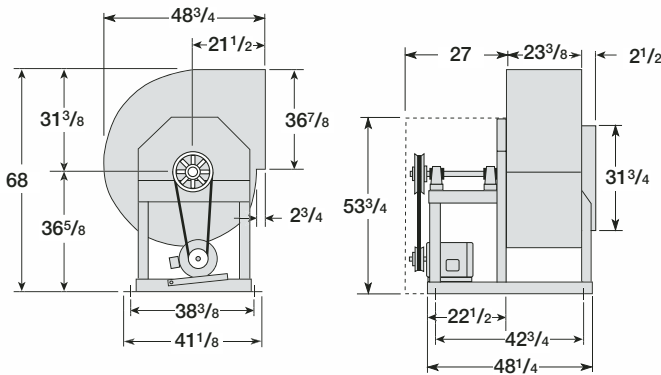
Wheel Diameter = 27 1/2 in.  
 Shaft Diameter = 1 1/2 in.  
 Outlet Area = 4.97 ft<sup>2</sup>  
 Max Motor Frame Size = 286T

Tip Speed = 7.20 x RPM  
 BHP = (RPM/258)<sup>3</sup>  
 Max RPM = 700



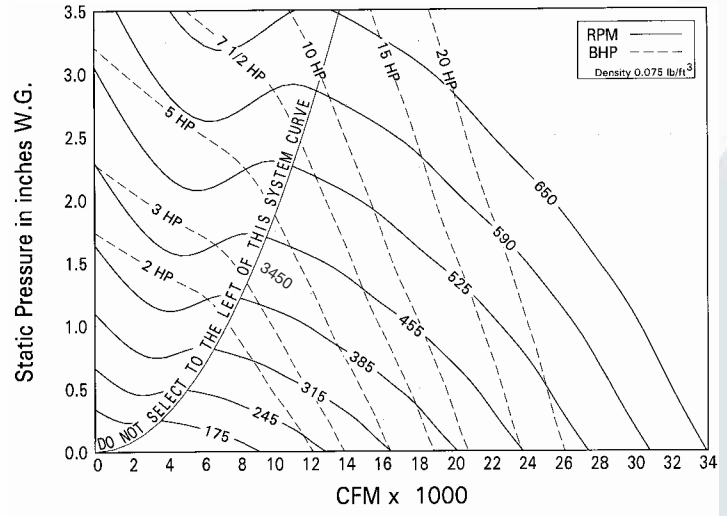
CFM	OV	Static Pressure in Inches																			
		0.25		0.5		0.75		1.0		1.25		1.5		2.0		2.5		3.5		3.25	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8600	1729	245	1.29	297	1.72	345	2.17	388	2.61	427	3.07	462	3.56								
9200	1850	255	1.52	304	1.97	350	2.44	392	2.91	431	3.41	466	3.91								
9800	1971	265	1.78	311	2.23	356	2.74	397	3.26	435	3.76	470	4.29								
10400	2091	275	2.05	319	2.55	362	3.08	402	3.62	439	4.15	474	4.7	536	5.84						
11000	2212	285	2.37	328	2.9	369	3.45	408	4	444	4.59	478	5.12	540	6.33	595	7.57				
11600	2333	297	2.73	337	3.28	376	3.83	414	4.43	450	5.04	483	5.63	544	6.86	599	8.14				
12200	2454	308	3.12	347	3.69	383	4.26	421	4.9	455	5.51	488	6.16	549	7.42	604	8.73	653	10.12		
12800	2574	319	3.55	357	4.14	392	4.74	427	5.39	461	6.03	493	6.71	553	7.99	608	9.4	657	10.81	680	11.53
13400	2695	331	4.01	366	4.62	401	5.27	434	5.91	467	6.61	499	7.28	558	8.68	612	10.09	661	11.53	685	12.29
14000	2816	343	4.52	377	5.15	410	5.82	441	6.46	474	7.21	505	7.9	563	9.38	616	10.79	665	12.33	689	13.07
14600	2936	354	5.06	387	5.71	419	6.41	450	7.1	481	7.84	511	8.59	568	10.11	620	11.58	669	13.15	693	13.94
15200	3057	366	5.65	397	6.31	429	7.06	459	7.79	488	8.5	518	9.31	573	10.86	626	12.44	674	13.99	697	14.83
15800	3178	378	6.29	408	6.99	439	7.75	468	8.51	496	9.22	525	10.06	579	11.64	631	13.33	678	14.89		
16400	3298	390	6.97	419	7.71	449	8.48	477	9.27	504	10.03	532	10.84	585	12.52	636	14.25	683	15.92		
17000	3419	402	7.7	431	8.48	459	9.26	486	10.07	513	10.89	539	11.65	592	13.45	641	15.19	688	16.97		
17600	3540	414	8.49	442	9.3	469	10.08	496	10.94	522	11.79	547	12.59	599	14.41	646	16.16	693	18.06		
18200	3660	426	9.32	454	10.17	479	10.95	506	11.86	531	12.73	556	13.58	605	15.41	653	17.24	699	19.17		
18800	3781	438	10.2	465	11.1	490	11.9	516	12.8	540	13.7	565	14.6	612	16.4	659	18.4				
19400	3902	450	11.2	477	12.1	501	12.9	526	13.8	550	14.8	574	15.7	619	17.5	666	19.6				
20000	4023	463	12.2	488	13.1	512	14	536	14.9	560	15.9	583	16.9	627	18.7	673	20.8				

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



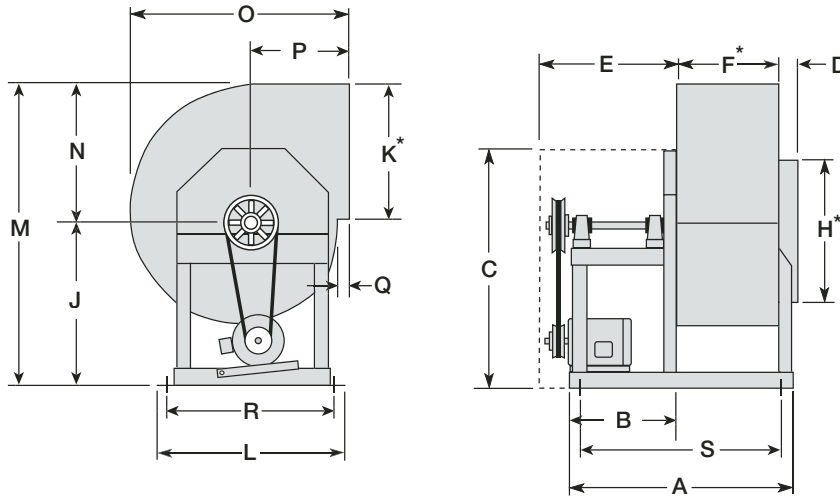
Wheel Diameter = 30 in.  
Shaft Diameter = 1 1/2 in.  
Outlet Area = 5.72 ft<sup>2</sup>  
Max Motor Frame Size = 286T

Tip Speed = 7.86 x RPM  
BHP = (RPM/239)<sup>3</sup>  
Max RPM = 650



CFM	OV	Static Pressure in Inches																			
		0.25		0.5		0.75		1.0		1.25		1.5		2.0		2.5		3.0		3.25	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	1749	245	1.6	293	2.12	332	2.59	369	3.13	403	3.63	434	4.19								
10800	1889	256	1.92	302	2.48	341	3.02	376	3.56	409	4.12	440	4.68	497	5.86						
11600	2029	268	2.29	312	2.89	350	3.48	383	4.02	416	4.65	446	5.25	502	6.49	553	7.76				
12400	2168	281	2.72	322	3.33	360	3.99	393	4.59	424	5.21	453	5.87	508	7.14	557	8.5				
13200	2308	294	3.19	332	3.83	370	4.54	402	5.21	431	5.82	461	6.52	514	7.88	563	9.3	608	10.73	630	11.48
14000	2448	307	3.72	344	4.4	379	5.14	412	5.87	441	6.55	468	7.21	521	8.7	568	10.13	613	11.67	635	12.43
14800	2588	320	4.31	356	5.03	389	5.78	422	6.58	450	7.32	477	8.02	528	9.55	575	11.07	619	12.64	640	13.46
15600	2728	333	4.97	367	5.72	399	6.47	431	7.34	460	8.14	486	8.9	535	10.44	582	12.09	624	13.65	646	14.52
16400	2868	348	5.71	379	6.47	410	7.28	441	8.16	470	9.02	496	9.85	542	11.37	589	13.15	631	14.83		
17200	3008	362	6.52	392	7.31	422	8.15	451	9.02	479	9.96	505	10.85	552	12.5	596	14.25	638	16.06		
18000	3148	376	7.4	405	8.22	434	9.09	461	9.95	489	10.96	515	11.91	561	13.69	603	15.4	645	17.34		
18800	3288	390	8.37	418	9.2	445	10.1	472	11.01	499	12.02	524	13.04	571	14.94	612	16.7				
19600	3428	405	9.42	431	10.25	457	11.18	483	12.16	509	13.14	534	14.23	580	16.25	621	18.15				
20400	3568	419	10.5	444	11.4	470	12.4	495	13.4	519	14.3	544	15.5	590	17.6	630	19.7				
21200	3708	434	11.8	457	12.6	482	13.6	507	14.7	530	15.7	554	16.8	599	19.1	640	21.2				
22000	3848	448	13.1	470	13.9	495	15	518	16.1	542	17.2	564	18.2	609	20.6	650	22.9				
22800	3988	463	14.5	485	15.4	508	16.5	530	17.5	553	18.7	575	19.8	619	22.2						
23600	4128	477	16	499	16.9	521	18	543	19.1	565	20.3	586	21.4	629	23.9						
24400	4267	492	17.6	513	18.6	534	19.7	555	20.8	577	22	598	23.2	639	25.7						
25200	4407	507	19.3	527	20.4	547	21.4	568	22.6	589	23.8	609	25.1	649	27.5						

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

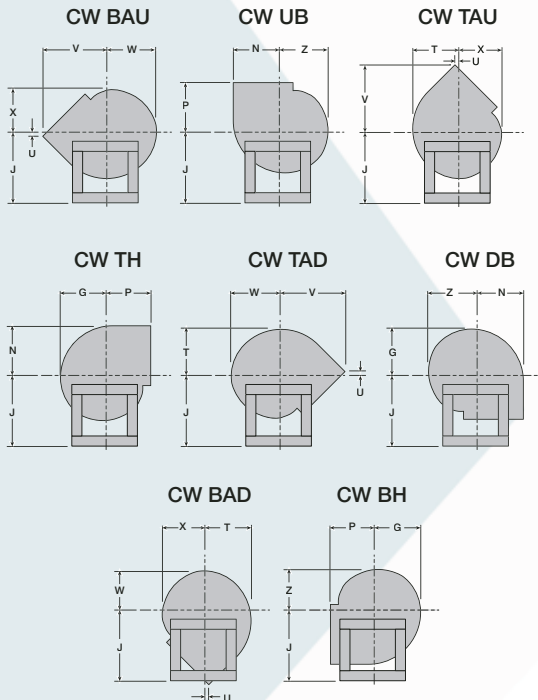


## SFB

Unit Size	Wheel Dia.	Shaft Dia.	A	B	C	D	E	F	H	J	K	L	M	N	O	P	Q	R	S	Mounting Hole Size	Weight* (Lbs.)
9	9 1/2	3/4	20	12	19 7/8	1 1/4	15 1/2	6 5/8	10	13 3/4	10 1/8	14 1/4	24	10 1/4	16 5/8	8	1 5/8	13 1/2	9 3/4	1/2	120
10	10 5/8	3/4	22	12	22 1/4	2	15 1/2	8 1/2	11	15 1/8	11 3/4	16 7/8	26 5/8	11 1/2	19 3/8	9 1/4	2 1/4	16	20 3/8	1/2	130
12	12 5/8	3/4	22 1/2	12	22 1/4	2	15 1/2	9	13	15 1/8	13 5/8	16 7/8	28 3/8	13 1/4	21 3/8	9 3/4	1 1/2	16	20 7/8	1/2	147
15	15	1	27 5/8	13	24 3/4	2	16 3/4	12 3/4	15 3/8	16 5/8	16	18 7/8	31 1/4	14 5/8	23 3/8	10 5/8	1 1/2	17 5/8	25	1/2	214
18	18 1/8	1	36 7/8	18	33 1/4	2	22	17 3/4	19 1/4	22 3/8	19 3/8	25	42	19 5/8	30 7/8	13 3/4	1 1/2	23 3/8	35	1/2	265
20	20	1 1/4	37	19	36 1/8	2	23 3/4	15 7/8	21 1/8	24 1/2	22	27 3/8	46	21 1/2	33 5/8	14 7/8	1 1/2	25 5/8	35	5/8	405
22	22 1/8	1 1/4	39 5/8	20	41 1/2	2 1/2	24	17 1/2	23	28 3/4	27 5/8	30 1/2	52 1/2	23 3/4	36 3/4	16	1 1/2	28 1/4	34 1/8	5/8	540
25	25	1 1/2	41 1/2	19 7/8	45 3/4	2 1/2	25	19 1/2	25 7/8	31 1/2	31 5/8	33 5/8	57 3/4	26 1/4	40 3/8	17 1/2	1 1/2	31 1/8	36	5/8	700
27	27 1/2	1 1/2	46	22 1/4	49 1/8	2 1/2	27	21 3/8	28 1/2	33	34 1/2	37 5/8	61 1/8	28 1/8	44 3/4	20 1/4	3 5/8	35 1/8	40 1/2	5/8	845
30	30	1 1/2	48 1/4	22 1/2	53 3/4	2 1/2	27	23 3/8	31 3/4	36 5/8	36 7/8	41 1/8	68	31 3/8	48 3/4	21 1/2	2 3/4	38 3/8	42 3/4	5/8	940

\* Approximate shipping weight with largest frame size motor.

## DISCHARGE POSITIONS



UNIT SIZE	U	V	W	X	T	G	Z
SFD-6	1 7/16	12 3/4	8 1/4	6 15/16	9 1/2	8 7/8	7 1/16
SFD-7.5	1 1/2	14 9/16	9 1/4	7 13/16	10 3/4	10 1/8	8 5/8
SFD-9	2 5/16	16 1/8	10 11/16	9	12 3/8	11 5/8	9 15/16
SFD-10	2 11/16	17 5/8	11 3/4	9 7/8	13 5/8	12 3/4	10 7/8

UNIT SIZE	U	V	W	X	T	G	Z
SFB-9	1 7/16	12 3/4	8 1/4	6 15/16	9 1/2	8 7/8	7 1/16
SFB-10	1 1/2	14 9/16	9 1/4	7 13/16	10 3/4	10 1/8	8 5/8
SFB-12	2 5/16	16 1/8	10 11/16	9	12 3/8	11 5/8	9 15/16
SFB-15	2 11/16	17 5/8	11 3/4	9 7/8	13 5/8	12 3/4	10 7/8
SFB-18	4 1/16	23 3/8	15 13/16	13 1/4	18 5/16	17 1/8	14 5/8
SFB-20	4 9/16	25 1/2	17 1/4	14 1/2	20 1/16	18 3/4	16 1/16
SFB-22	5 5/16	28	19 1/16	16	22 1/8	20 3/4	17 11/16
SFB-25	6 1/16	30 11/16	21 1/16	17 3/4	24 7/16	22 7/8	19 9/16
SFB-27	5	34	22	19	26 1/2	24 1/2	20 7/8
SFB-30	6 5/8	38 1/8	25	21 1/8	29	27 1/4	23 1/4

Due to Greenheck's policy of continuous product improvement, dimensions are subject to change. For complete dimensional information, refer to the Greenheck CAPS program.

## Model SFD Direct Drive Utility Fans

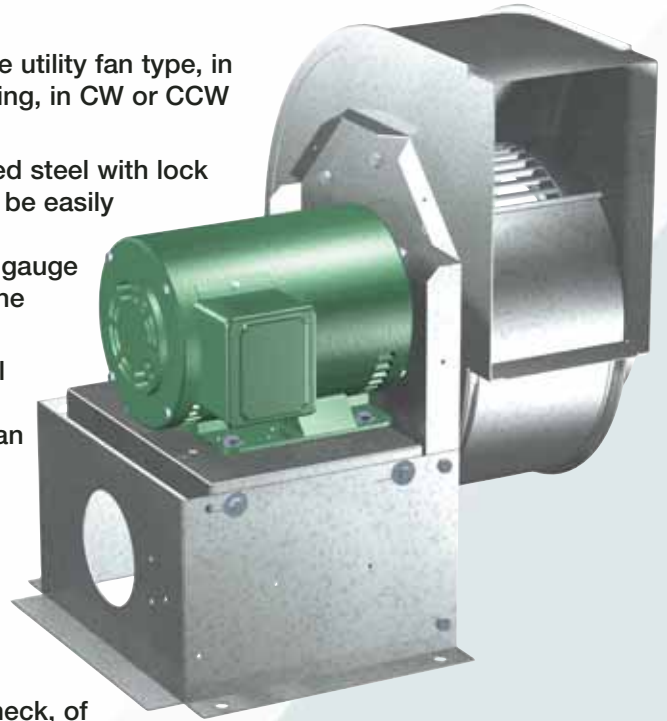
Supply, exhaust or return air fans shall be of the direct drive utility fan type, in AMCA Arrangement 4 with a single width, single inlet housing, in CW or CCW rotation as specified.

The housing shall be constructed of heavy gauge galvanized steel with lock formed seams permitting no air leakage. The housing shall be easily rotated in the field to any of the eight standard discharge positions. Housing supports shall be constructed of heavy gauge galvanized steel to minimize vibration and rigidly support the motor and wheel.

The fan wheel shall be of the forward curved type and shall be constructed of heavy gauge aluminum. Wheels shall be statically and dynamically balanced. The wheel cone and fan inlet cone shall be carefully matched for maximum performance and operating efficiency. Motors shall be permanently lubricated, heavy duty ball bearing type matched to the fan load and furnished at the specified voltage, phase and enclosure.

All fans shall bear the AMCA Certified Ratings Seal for air performance.

Utility fans shall be Model SFD as manufactured by Greenheck, of Schofield, Wisconsin.



## Model SFB Belt Drive Utility Fans

Supply, exhaust and return air fans shall be of the belt driven utility fan type in AMCA Arrangement 10 with a single width, single inlet housing, in CW or CCW rotation as specified.

The housing shall be constructed of heavy gauge steel with air tight lock formed seams. The housing shall be easily rotated in the field to any of the eight standard discharge positions. Housing and bearing supports shall be constructed of welded steel members to prevent vibration and to rigidly support the shaft and bearings.

Model SFB fan wheels shall be of the forward curved type, constructed of heavy gauge steel with uniform stamped steel blades.

Wheels shall be statically and dynamically balanced. The wheel cone and fan inlet cone shall be carefully matched for maximum performance and operating efficiency.

Motors shall be heavy duty, ball bearing type, matched to the fan load and furnished at the specified voltage, phase and enclosure. The fan shaft shall be ground and polished solid steel mounted in heavy duty, permanently sealed, pillow block ball bearings. Bearings shall be selected for a minimum L50 life in excess of 200,000 hours of maximum cataloged operating speed. Drives shall be sized for a minimum of 150% of driven horsepower. Pulleys shall be of the fully machined cast iron type, keyed and securely attached to the wheel and motor shafts. The motor pulley shall be adjustable for final system balancing.

All fans shall bear the AMCA Certified Ratings Seal for air performance.

Utility fans shall be Model SFB (with forward curved wheels) as manufactured by Greenheck, of Schofield, Wisconsin.



# Centrifugal Utility Fan Guide



Model SFD centrifugal forward curved direct driven utility fans are designed for supply, exhaust and return air applications requiring low to medium air volume and pressure. Capacities range from 232 cfm to 2,641 cfm and up to 2 in. wg of static pressure.



Model SFB centrifugal forward curved belt driven utility fans are designed for supply, exhaust and return air applications requiring high air volumes and low static pressures. Capacities range from 300 cfm to 20,000 cfm and up to 2 1/2 in. wg of static pressure.



Model SWB Series 100 centrifugal backward inclined belt driven utility fans are designed for supply, exhaust and return air applications requiring high air volumes and high static pressures. The fan's galvanized construction make them cost efficient with capacities ranging from 500 cfm to 23,000 cfm and up to 2 1/2 in. wg of static pressure.



Model SWB Series 200 centrifugal backward inclined belt driven utility fans are designed for supply, exhaust and return air applications requiring high air volumes and high static pressures. With heavy gauge steel construction, these light industrial duty fans have capacities ranging from 500 cfm to 30,000 cfm and up to 5 in. wg of static pressure. The aluminum airstream option is available for explosion resistant applications.



Model BISW-21 (PermaLock scroll) and model BISW-41 (welded scroll) Industrial duty centrifugals, for moderate to high pressures, feature backward inclined flat-bladed (BI) or airfoil (AF) wheels. These units can be either belt drive or direct drive with capacities ranging from 50 cfm to 200,000 cfm and up to 20 in. wg of static pressure. Maximum operating temperature is 1,000° F. Construction options include single width or double width. Alternative materials such as stainless steel and aluminum are also available.

## Warranty

Greenheck warrants this equipment to be free from defects in material and workmanship for a period of one year from the purchase date. Any units or parts which prove defective during the warranty period will be replaced at our option when returned to our factory, transportation prepaid.

Motors are warranted by the motor manufacturer for a period of one year. Should motors furnished by Greenheck prove defective during this period, they should be returned to the nearest authorized motor service station. Greenheck will not be responsible for any removal or installation costs.

Due to continuing research, Greenheck reserves the right to change specifications without notice.



## Number one in air movement and control.



Centrifugal and Vane Axial Fans



Fans and Ventilators



Energy Recovery Ventilators & Make-Up Air Units



Kitchen Ventilation Systems



Dampers and Louvers

Visit the Greenheck website for the most current information available  
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