



**FIBERGLASS RADIAL BLADE
CENTRIFUGAL FANS**

Model RBF

Fiberglass Centrifugal Fans



**Model RBF
Arrangement 9**



Aerovent, A Twin City Fan Company, certifies that the Model RBF Fiberglass Centrifugal Fans, sizes 15 through 57, shown on pages 9 through 19 are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. Sizes 10 through 13 shown on pages 6 through 8 are not licensed to bear the AMCA Seal.

Model

RBF

The RBF fiberglass fan offers superior corrosion resistance to gases, fumes, and vapors. The RBF's fan housings feature solid fiberglass reinforced construction utilizing corrosion grade resin. A glass veil is standard for airstream surfaces providing a resin rich liner to maximize chemical resistance.

The standard resin used for the RBF is resistant to a large variety of alkalis and other chemical agents. When a corrosion resistant fan is required to withstand chemicals that attack glass or polyester resin, special plastic and reinforcing material can be supplied.

Size

10 to 57 inch wheel diameters

Performance

Airflow to 38,300 CFM

Static pressure to 18 inches w.g.

Advantages of Fiberglass Fans

- Superior corrosion resistance to gases, fumes and vapors
- Lower maintenance costs
- More economical than stainless steel construction
- Lighter weight than steel

Wheel Design

The RBF wheel features a radial blade design. All wheels are constructed of solid FRP with a steel hub embedded and encapsulated into the backplate.

Construction Features

Corrosion Resistance

Fan housings are solid FRP hand lay-up construction utilizing corrosion grade flame retardant vinyl ester resin. A glass veil is standard for airstream surfaces providing a resin rich liner to maximize chemical resistance (see Corrosion Resistance Guide on page 4).

Wheel/Shaft Assembly

The fan wheel is attached to a 316 SS stepped shaft using a 316 SS retaining plate. The retaining plate is encapsulated in FRP following assembly.

Flanged Outlet

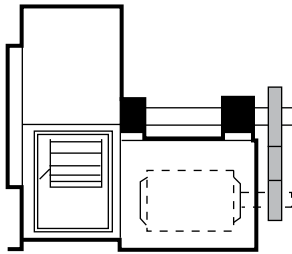
Integral flanged outlet with drilled bolt pattern is standard.

Inlet Connection

Slip-type connection is standard.

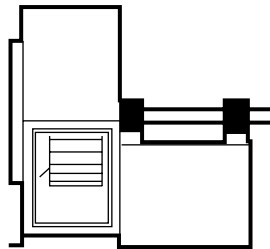


Drive Arrangements



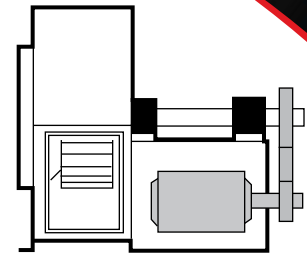
Arrangement 10

V-belt drive with the motor mounted directly under the fan shaft on a slide rail base. This provides for easy adjustment of the belt tension. Maximum temperature is 200°F.



Arrangement 1

Shaft and bearing assembly designed to be driven by a separately mounted motor. Maximum temperature is 200°F.



Arrangement 9

Motor is mounted on the bearing base support. A slide rail base under the motor adjusts for belt tension. Motor is located on the right side as standard (when viewed from the drive end of shaft). Maximum temperature is 200°F.

Accessories

Bolted Inspection Door — Limited access panel bolted and sealed to the housing.

Weather Cover (Arr. 10) — For complete protection of shaft, bearings, motor and drive from weather.

OSHA Type Belt Guard (Arr. 1 & 9) — Provides maximum protection for all personnel and complete coverage of belts and sheaves. Includes a tachometer opening for checking the fan speed.

Shaft & Bearing Guard — Solid sheetmetal enclosure designed to cover the shaft and bearings. Grease lines are accessible for lubrication purposes.

Flanged Inlet — Heavy fiberglass flange; drilling standard.

Unitary Base (Arr. 1) — Unitary bases offered in sizes 15 – 57.

Vibration Isolation — Rubber-in-shear or spring isolators available for all sizes and arrangements.

Housing Drain — Provided with female pipe thread at low point of scroll.

Optional Construction

Optional Materials

- 304 SS or 316 SS bearing pedestals and inlet supports
- Synthetic surfacing veil
- Special resins to suit specific applications
- Fire Retardant Resin reduces the resin's tendency to burn. Antimony trioxide is included to attain a flame spread rating of 25 or less.

Spark Resistant Construction

Spark resistant construction for fiberglass fans is recommended when the fan is handling explosive fumes. Although fiberglass is a non-sparking material, it can build and retain a static charge that can be potentially hazardous. With spark resistant construction, the fan is statically grounded by carbon impregnation to reduce a static charge buildup.

Corrosion Resistance Guide

The following table lists gases, fumes, and vapors that are commonly exhausted from chemical processes. Using the "Legend of Symbols," the table indicates how Aerovent's standard fiberglass fans will withstand exhausting the particular gas, fume, or vapor.

This data is based on a maximum temperature of 200°F (93°C).

Legend of Symbols

- S — Satisfactory Application
- L — Limited Life or Life Tests Incomplete
- U — Unsatisfactory

APPLICATION	SATURATED VAPOR	DRY VAPOR	EXCESS DRY AIR	APPLICATION	SATURATED VAPOR	DRY VAPOR	EXCESS DRY AIR
ACIDS				ALKALINE SALTS			
Acetic	L	S	S	Sodium Bicarbonate	L	S	S
Aqua Regia	U	U	L	Sodium Carbonate	L	S	S
Boric	S	S	S	Sodium Chloride	L	S	S
Butyric	S	S	S	Sodium Cyanide	L	S	S
Carbonic	S	S	S	Trisodium, Phosphate	L	L	S
Chromic	S	S	S	ALKALIS			
Citric	S	S	S	Ammonium Hydroxide	U	L	S
Formic	L	S	S	Calcium Hydroxide	U	L	S
Hydrochloric	S	S	S	Potassium Hydroxide	U	L	S
Hydrocyanic	L	S	S	Sodium Hydroxide	U	L	S
*Hydrofluoric	L	S	S	Sodium Hypochlorite	U	L	S
Hypochlorous	L	S	S	KETONES			
Lactic	S	S	S	Acetone	U	L	S
Maleic	S	S	S	Methyl Ethyl Ketone	U	U	L
Nitric	L	S	S	Methyl Isobutyl Ketone	U	U	L
Oleic	S	S	S	ESTERS			
Oxalic	S	S	S	Butyl Acetate	U	L	S
Perchloric	U	U	U	Ethyl Acetate	U	U	S
Phosphoric	S	S	S	Zinc Acetate	S	S	S
Picric	L	S	S	GASES			
Stearic	S	S	S	Ammonia	L	S	S
Sulfuric	S	S	S	Bromine	U	U	U
Sulfurous	S	S	S	Carbon Dioxide	S	S	S
Tannic	S	S	S	Carbon Disulfide	L	L	S
Tartaric	S	S	S	Chlorine	L	S	S
SALTS, ACID & NEUTRAL				*Fluorine	L	S	S
Alum	S	S	S	*Hydrogen Fluoride	L	S	S
Aluminum Chloride	S	S	S	Hydrogen Sulfide	S	S	S
Aluminum Sulphate	S	S	S	Sulfur Dioxide	S	S	S
Ammonium Chloride	S	S	S	HYDROCARBONS			
Ammonium Nitrate	S	S	S	Benzene	U	U	U
Ammonium Sulphate	S	S	S	Fuel Oil	S	S	S
Calcium Chloride	S	S	S	Gasoline	S	S	S
Calcium Sulphate	S	S	S	Kerosene	S	S	S
Copper Chloride	S	S	S	Lubricating Oil	S	S	S
Copper Sulphate	S	S	S	Mineral Oil	S	S	S
Ferric Chloride	S	S	S	Toluene	U	U	U
Ferric Nitrate	S	S	S	Vegetable Oil	S	S	S
Ferric Sulphate	S	S	S	Naphtha	S	S	S
Magnesium Salts	S	S	S	Methane	S	S	S
Nickel Salts	S	S	S	Butane	S	S	S
Potassium Chloride	S	S	S	Propane	S	S	S
Potassium Nitrate	S	S	S	Xylol	S	S	S
Potassium Sulphate	S	S	S	CHLORINATED SOLVENTS			
Sodium Chloride	S	S	S	Carbon Tetrachloride	L	S	S
Sodium Sulphate	S	S	S	Chlorobenzene	U	U	U
Sodium Sulphite	S	S	S	Chloroform	U	U	U
Stannous Chloride	S	S	S	Perchloroethylene	U	U	L
Zinc Chloride	S	S	S	Trichloroethylene	U	U	L
Zinc Sulphate	S	S	S				
ALCOHOLS				GLYCOLS			
	S	S	S		S	S	S

*Synthetic Surfacing Veil Required

Performance Correction for Temperature and Altitude

The performance tables in this catalog are based on standard air conditions of 70°F at sea level (0.075 lbs./cu.ft. density). If the performance of the fan is based on standard conditions, the fan can be selected directly from the performance tables in this catalog.

When a fan operates at temperatures other than 70°F or altitudes other than sea level, a “temperature and altitude density ratio” (Table 1) is used to convert these conditions to standard air conditions. This conversion must be done before the fan can be selected from the performance tables in this catalog. After the fan is selected at standard conditions, the temperature correction ratio must be used to convert the brake horsepower at standard air conditions to the brake horsepower at operating conditions. This is shown in the example below.

Example: Specifications are for a 29" FRP fan to provide 3,200 CFM at 5" SP at 150°F at 1,000 ft. elevation (0.0628 lbs./cu. ft. density).

For 150°F and 1,000 ft. elevation Table 1 shows a density ratio of 0.838. Using the temperature and altitude density ratio, the static pressure at standard conditions is determined as follows:

$$\text{Operating SP} \div \frac{\text{Temp. \& Alt.}}{\text{Density Ratio}} = \text{SP at Std. Conditions}$$

$$5" \text{ SP} \div 0.838 = 6" \text{ SP at Standard Conditions}$$

Turn to page 13 for the Size 29 RBF fan performance table. Using 3,200 CFM at 6" SP at standard conditions, find the RPM and brake horsepower to be 1,120 RPM and 5.07 BHP. Note: 5.07 BHP is the brake horsepower required at standard conditions and is also referred to as the “cold brake horsepower” or “starting brake horsepower.”

The actual brake horsepower at the operating condition of 150°F and 1,000 ft. elevation is determined by the following equation:

$$\frac{\text{BHP at Std. Conditions}}{\text{Temp. \& Alt. Density Ratio}} = \text{BHP at Oper. Conditions}$$

$$5.07 \text{ BHP} \times 0.838 = 4.26 \text{ BHP at Operating Conditions}$$

Therefore, the Size 29 RBF fan providing 3,200 CFM at 5" SP at 150°F and 1,000 ft. elevation will run at 1,120 RPM and will require 4.26 BHP at operating conditions and 5.07 BHP at starting. Refer to Table 2 and Table 3 for maximum safe speeds at elevated temperatures.

Table 1. Temperature and Altitude Density Ratios

AIR TEMP °F	ALTITUDE IN FEET ABOVE SEA LEVEL											
	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	15000
	BAROMETRIC PRESSURE IN INCHES OF MERCURY											
	29.92	28.86	27.82	26.82	25.84	24.90	23.98	23.09	22.22	21.39	20.58	16.89
-50	1.293	1.247	1.201	1.159	1.116	1.076	1.036	0.997	0.960	0.924	0.889	0.729
0	1.152	1.111	1.071	1.032	0.995	0.959	0.923	0.889	0.856	0.824	0.792	0.650
50	1.039	1.003	0.967	0.932	0.897	0.864	0.833	0.801	0.772	0.743	0.715	0.586
70	1.00	0.964	0.93	0.896	0.864	0.832	0.801	0.772	0.743	0.714	0.688	0.564
100	0.946	0.912	0.88	0.848	0.818	0.787	0.758	0.73	0.703	0.676	0.651	0.534
150	0.869	0.838	0.808	0.770	0.751	0.723	0.696	0.671	0.646	0.620	0.598	0.490
200	0.803	0.774	0.747	0.720	0.694	0.668	0.643	0.620	0.596	0.573	0.552	0.453

Maximum Safe Speeds

When operating at temperatures other than 70°F, the maximum speed of the fan is affected. To determine the maximum speed at the operating temperature, a “Maximum Safe Speed Temperature Factor” (Table 3) is applied to the “Maximum Safe Wheel Speed at 70°F” (Table 2).

Table 2. Maximum Safe Wheel Speed at 70°F

SIZE	RPM	SIZE	RPM
10	4477	29	1935
12	4090	33	1740
13	4100	36	1570
15	3670	40	1435
19	2995	45	1270
22	2535	50	1135
26	2195	57	1000

Table 3. Maximum Safe Speed Temperature Factors

TEMPERATURE		FACTOR
°F	°C	
70	21	1.00
100	38	1.00
150	66	0.95
200	93	0.90

Example: The maximum safe speed for a Size 29 RBF operating at 150°F is 1,838 RPM. The calculation is shown below.

$$\frac{\text{Max. RPM at 70°F}}{\text{(Table 2)}} \times \frac{\text{Temp. Factor}}{\text{(Table 3)}} = \text{Max. RPM at Operating Temp.}$$

$$1,935 \times 0.95 = 1,838 \text{ Max. RPM at 150°F}$$

Since the Max. RPM at 150°F is 1,553, the fan in our previous example running at 1,120 RPM at 150°F would be acceptable.

Table 4. Metric Conversion Factors

DESCRIPTION	ENGLISH UNIT	METRIC UNIT	CONVERSION FACTOR	
			ENGLISH TO METRIC	METRIC TO ENGLISH
VOLUME	CFM	m ³ /s	0.000472	2118.90
PRESSURE	in. w.g.	kPa	0.24866	4.02156
POWER	BHP	kW	0.74570	1.3410
VELOCITY	fpm	m/s	0.00508	196.85
SPEED	RPM	rps	0.01667	60.00
AREA	ft ²	m ²	0.09290	10.7640
CIRCUMFERENCE	ft	m	0.30480	3.2808
DIAMETER	in.	mm	25.400	0.03937

RBF 12

Outlet Area = 0.131 Sq. Ft.

Wheel Dia. = 12.5

Tip Speed = 3.2722 x RPM

CFM	OV	0.125" SP		0.25" SP		0.375" SP		0.5" SP		0.625" SP		0.75" SP		0.875" SP		1" SP		1.25" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
131	1000	535	0.01	652	0.01	749	0.02	833	0.02	909	0.03	<u>979</u>	<u>0.03</u>	<u>1044</u>	<u>0.04</u>	<u>1105</u>	<u>0.04</u>	<u>1220</u>	<u>0.05</u>
157	1200	593	0.01	700	0.02	792	0.02	874	0.03	948	0.03	1016	0.04	1079	0.05	1139	0.05	1249	0.06
183	1400	653	0.02	752	0.02	839	0.03	917	0.03	989	0.04	1056	0.05	1117	0.05	1175	0.06	1283	0.07
210	1600	719	0.02	811	0.03	892	0.04	966	0.04	1035	0.05	1100	0.06	1160	0.07	1217	0.07	1322	0.09
236	1800	783	0.03	871	0.04	947	0.04	1017	0.05	1083	0.06	1145	0.07	1203	0.08	1259	0.08	1363	0.10
262	2000	849	0.04	932	0.04	1004	0.05	1071	0.06	1133	0.07	1193	0.08	1249	0.09	1303	0.10	1404	0.12
288	2200	916	0.05	994	0.06	1064	0.06	1127	0.07	1187	0.08	1244	0.09	1298	0.10	1350	0.11	1448	0.13
314	2400	984	0.06	1058	0.07	1125	0.08	1186	0.09	1242	0.10	1297	0.11	1349	0.12	1399	0.13	1494	0.15
341	2600	1055	0.07	1126	0.08	1189	0.09	1248	0.11	1303	0.12	1355	0.13	1405	0.14	1453	0.15	1545	0.17
367	2800	1125	0.09	1192	0.10	1253	0.11	1309	0.12	1362	0.14	1412	0.15	1460	0.16	1507	0.17	1596	0.20
393	3000	1195	0.11	1259	0.12	1317	0.13	1372	0.14	1423	0.16	1471	0.17	1518	0.18	1562	0.20	1649	0.22
419	3200	1265	0.13	1326	0.14	1382	0.15	1435	0.17	1484	0.18	1532	0.19	1577	0.21	1620	0.22	1703	0.25
445	3400	1336	0.15	1394	0.16	1449	0.18	1499	0.19	1547	0.21	1593	0.22	1637	0.24	1679	0.25	1759	0.28
472	3600	1409	0.18	1465	0.19	1518	0.21	1567	0.22	1613	0.24	1657	0.25	1700	0.27	1741	0.28	1819	0.32
498	3800	1481	0.20	1535	0.22	1585	0.24	1632	0.25	1677	0.27	1720	0.29	1762	0.30	1802	0.32	1878	0.35
524	4000	1552	0.24	1604	0.25	1653	0.27	1699	0.29	1742	0.31	1784	0.32	1824	0.34	1863	0.36	1938	0.39
550	4200	1624	0.27	1674	0.29	1721	0.31	1765	0.33	1808	0.35	1848	0.36	1888	0.38	1926	0.40	1999	0.43
576	4400	1696	0.31	1744	0.33	1789	0.35	1833	0.37	1874	0.39	1913	0.41	1952	0.42	1989	0.44	2060	0.48
603	4600	1771	0.35	1817	0.37	1861	0.40	1903	0.42	1943	0.44	1982	0.46	2019	0.47	2055	0.49	2124	0.53
629	4800	1844	0.40	1888	0.42	1930	0.44	1971	0.46	2010	0.48	2048	0.51	2084	0.53	2119	0.55	2187	0.59
655	5000	1916	0.45	1959	0.47	2000	0.49	2039	0.52	2077	0.54	2114	0.56	2150	0.58	2184	0.60	2250	0.64
681	5200	1989	0.50	2030	0.53	2070	0.55	2108	0.57	2145	0.60	2181	0.62	2216	0.64	2249	0.66	2314	0.71

CFM	OV	1.5" SP		1.75" SP		2" SP		2.5" SP		3" SP		3.5" SP		4" SP		4.5" SP		5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
210	1600	1419	0.10	1509	0.12	<u>1594</u>	<u>0.14</u>	<u>1751</u>	<u>0.17</u>	<u>1897</u>	<u>0.20</u>	2035	0.24						
236	1800	1457	0.12	1546	0.14	1629	0.15	<u>1784</u>	<u>0.19</u>	<u>1926</u>	<u>0.23</u>	<u>2058</u>	<u>0.27</u>	<u>2184</u>	<u>0.31</u>	2306	0.35		
262	2000	1498	0.14	1585	0.16	1667	0.18	1819	0.21	<u>1959</u>	<u>0.26</u>	<u>2089</u>	<u>0.30</u>	<u>2211</u>	<u>0.34</u>	<u>2328</u>	<u>0.38</u>	2441	0.43
288	2200	1540	0.16	1626	0.18	1707	0.20	1856	0.24	1994	0.28	<u>2123</u>	<u>0.33</u>	<u>2243</u>	<u>0.37</u>	<u>2357</u>	<u>0.42</u>	<u>2466</u>	<u>0.47</u>
314	2400	1584	0.17	1668	0.20	1748	0.22	1896	0.27	2031	0.32	2158	0.36	<u>2277</u>	<u>0.41</u>	<u>2390</u>	<u>0.46</u>	<u>2497</u>	<u>0.51</u>
341	2600	1632	0.19	1714	0.22	1792	0.25	1938	0.30	2072	0.35	2197	0.40	2314	0.45	2426	0.50	<u>2533</u>	<u>0.55</u>
367	2800	1680	0.22	1760	0.24	1837	0.27	1980	0.33	2113	0.38	2236	0.44	2352	0.49	2462	0.55	2567	0.60
393	3000	1730	0.25	1808	0.27	1883	0.30	2024	0.36	2155	0.42	2277	0.48	2392	0.54	2500	0.59	2604	0.65
419	3200	1782	0.28	1858	0.31	1931	0.33	2069	0.39	2197	0.45	2318	0.52	2432	0.58	2540	0.65	2643	0.71
445	3400	1836	0.31	1910	0.34	1981	0.37	2115	0.43	2242	0.49	2361	0.56	2474	0.63	2581	0.70	2683	0.76
472	3600	1893	0.35	1965	0.38	2034	0.41	2166	0.47	2289	0.53	2406	0.60	2518	0.68	2624	0.75	2725	0.82
498	3800	1950	0.39	2020	0.42	2087	0.45	2216	0.52	2337	0.58	2451	0.65	2561	0.73	2666	0.80	2767	0.88
524	4000	2008	0.43	2076	0.46	2141	0.50	2267	0.57	2385	0.63	2498	0.70	2606	0.78	2710	0.86	2809	0.94
550	4200	2068	0.47	2133	0.51	2197	0.55	2320	0.62	2436	0.69	2546	0.76	2652	0.83	2754	0.91	2852	1.00
576	4400	2128	0.52	2192	0.56	2254	0.60	2373	0.68	2487	0.75	2596	0.82	2700	0.90	2800	0.98	2896	1.06
603	4600	2191	0.57	2254	0.61	2314	0.65	2431	0.74	2542	0.82	2648	0.89	2751	0.97	2849	1.05	2944	1.13
629	4800	2252	0.63	2314	0.67	2373	0.71	2487	0.80	2596	0.89	2700	0.96	2801	1.04	2897	1.12	2991	1.21
655	5000	2314	0.69	2375	0.73	2433	0.77	2545	0.87	2651	0.96	2753	1.04	2852	1.12	2947	1.20	3039	1.29
681	5200	2376	0.75	2436	0.79	2494	0.84	2603	0.93	2707	1.03	2807	1.12	2904	1.21	2998	1.29	3088	1.38
707	5400	2439	0.82	2498	0.86	2555	0.91	2662	1.01	2764	1.11	2862	1.20	2957	1.29	3049	1.38	3139	1.47
734	5600	2506	0.89	2563	0.94	2618	0.99	2724	1.09	2824	1.19	2920	1.29	3014	1.39	3104	1.48	3192	1.58
760	5800	2570	0.97	2626	1.02	2680	1.07	2785	1.17	2883	1.27	2977	1.38	3069	1.48	3158	1.59	3244	1.68

CFM	OV	6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
314	2400	2700	<u>0.61</u>	2891	<u>0.72</u>	3074	0.83												
341	2600	2732	<u>0.66</u>	2918	<u>0.77</u>	3096	0.89	3266	1.01										
367	2800	2766	<u>0.71</u>	2949	<u>0.83</u>	3123	0.95	3289	1.07	3448	1.20	3603	1.33						
393	3000	2800	<u>0.77</u>	2983	<u>0.89</u>	3154	1.02	3316	1.14	3473	1.27	3624	1.41	3771	1.55	3913	1.69		
419	3200	2836	0.83	3017	0.96	3187	1.09	3348	1.22	3501	1.35	3649	1.49	3793	1.63	3932	1.78	4069	1.93
445	3400	2874	0.89	3053	1.02	3222	1.16	3381	1.30	3533	1.44	3679	1.58	3820	1.73	3956	1.87	4090	2.03
472	3600	2915	0.96	3091	1.10	3258	1.24	3417	1.38	3568	1.53	3712	1.68	3851	1.83	3985	1.98		
498	3800	2955	1.03	3130	1.18	3295	1.32	3452	1.47	3603	1.62	3746	1.78	3884	1.93	4017	2.09		
524	4000	2996	1.10	3170	1.26	3334	1.41	3489	1.56	3638	1.72	3781	1.88	3918	2.04	4050	2.20		
550	4200	3038	1.17	3211	1.34	3373	1.50	3527	1.66	3674	1.82	3816	1.98	3953	2.15	4084	2.32		
576	4400	3080	1.24	3252	1.42	3414	1.59	3567	1.76	3712	1.93	3853	2.10	3988	2.27				
603	4600	3125	1.31	3296	1.50	3456	1.69	3608	1.87	3753	2.04	3892	2.22	4026	2.40				
629	4800	3170	1.39	3338	1.58	3498	1.78	3649	1.97	3793	2.16	3931	2.34	4064	2.53				
655	5000	3215	1.47	3382	1.67	3540	1.87	3691	2.08	3834	2.28	3971	2.47						
681	5200	3262	1.56	3426	1.75	3583	1.97	3733	2.18	3875	2.39	4012	2.60						
707	5400	3309	1.65	3472	1.85	3627	2.06	3775	2.28	3917	2.51	4053	2.72						
734	5600	3360	1.76	3520	1.95	3673	2.17	3820	2.39	3961	2.63								
760	5800	3410	1.87	3568	2.06	3719	2.28	3864	2.51	4004	2.74</								

RBF 13

Outlet Area = 0.263 Sq. Ft.

Wheel Dia. = 13.5

Tip Speed = 3.534 x RPM

CFM	OV	0.125" SP		0.25" SP		0.375" SP		0.5" SP		0.625" SP		0.75" SP		0.875" SP		1" SP		1.25" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
263	1000	563	0.02	656	0.03	736	0.04	809	0.04	878	0.05	<u>943</u>	<u>0.06</u>	<u>1004</u>	<u>0.07</u>	<u>1062</u>	<u>0.08</u>	<u>1170</u>	<u>0.10</u>
316	1200	636	0.03	722	0.04	796	0.05	863	0.06	926	0.07	986	0.08	1043	0.09	1098	0.10	<u>1201</u>	<u>0.12</u>
368	1400	709	0.04	791	0.05	860	0.06	923	0.08	981	0.09	1037	0.10	1090	0.11	1141	0.12	1239	0.15
421	1600	786	0.06	863	0.07	929	0.08	988	0.10	1043	0.11	1095	0.12	1145	0.14	1193	0.15	1285	0.18
473	1800	863	0.08	936	0.09	999	0.11	1055	0.12	1108	0.14	1157	0.15	1204	0.17	1249	0.18	1336	0.21
526	2000	941	0.10	1011	0.12	1072	0.14	1126	0.15	1176	0.17	1223	0.19	1268	0.20	1311	0.22	1394	0.25
579	2200	1021	0.13	1088	0.15	1146	0.17	1198	0.19	1246	0.21	1292	0.23	1335	0.24	1377	0.26	1455	0.30
631	2400	1099	0.16	1164	0.19	1220	0.21	1270	0.23	1317	0.25	1361	0.27	1402	0.29	1443	0.31	1519	0.35
684	2600	1180	0.21	1242	0.23	1296	0.26	1345	0.28	1390	0.30	1433	0.32	1473	0.34	1512	0.37	1586	0.41
736	2800	1259	0.25	1320	0.28	1372	0.31	1419	0.33	1463	0.35	1505	0.38	1544	0.40	1581	0.43	1652	0.47
789	3000	1341	0.30	1399	0.34	1450	0.37	1495	0.39	1538	0.42	1578	0.44	1617	0.47	1654	0.49	1722	0.54
842	3200	1423	0.36	1478	0.40	1528	0.43	1573	0.46	1614	0.49	1653	0.52	1690	0.54	1726	0.57	1794	0.62
894	3400	1503	0.43	1557	0.47	1605	0.50	1649	0.54	1689	0.57	1727	0.59	1764	0.62	1799	0.65	1865	0.71
947	3600	1586	0.51	1637	0.55	1684	0.59	1727	0.62	1766	0.65	1803	0.68	1839	0.72	1873	0.75	1938	0.81
999	3800	1667	0.59	1717	0.63	1762	0.67	1804	0.71	1843	0.75	1879	0.78	1914	0.82	1947	0.85	2010	0.91
1052	4000	1750	0.68	1798	0.73	1842	0.77	1883	0.82	1921	0.85	1956	0.89	1990	0.92	2023	0.96	2085	1.03
1105	4200	1833	0.79	1880	0.84	1922	0.88	1962	0.93	1999	0.97	2034	1.01	2067	1.04	2099	1.08	2160	1.15
1157	4400	1915	0.90	1960	0.95	2001	1.00	2040	1.05	2076	1.09	2111	1.13	2143	1.17	2175	1.21	2234	1.29
1210	4600	1999	1.02	2042	1.08	2082	1.13	2120	1.18	2155	1.23	2189	1.27	2221	1.31	2252	1.36	2310	1.44
1262	4800	2081	1.16	2123	1.21	2162	1.27	2198	1.32	2233	1.37	2266	1.42	2298	1.46	2328	1.51	2385	1.59
1315	5000	2165	1.30	2205	1.36	2243	1.42	2279	1.48	2313	1.53	2345	1.58	2377	1.63	2406	1.67	2463	1.77
1368	5200	2248	1.46	2288	1.53	2325	1.59	2360	1.64	2393	1.70	2425	1.75	2455	1.80	2485	1.86	2540	1.95

CFM	OV	1.5" SP		1.75" SP		2" SP		2.5" SP		3" SP		3.5" SP		4" SP		4.5" SP		5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
421	1600	1371	0.20	1454	0.23	<u>1534</u>	<u>0.26</u>	<u>1682</u>	<u>0.33</u>	<u>1820</u>	<u>0.39</u>	1949	0.46	2070	0.53	2185	0.61		
473	1800	1419	0.24	1497	0.27	1573	0.30	<u>1716</u>	<u>0.37</u>	<u>1850</u>	<u>0.44</u>	<u>1976</u>	<u>0.51</u>	<u>2095</u>	<u>0.59</u>	2208	0.67	2316	0.75
526	2000	1472	0.28	1547	0.32	1619	0.35	1756	0.42	<u>1886</u>	<u>0.49</u>	<u>2008</u>	<u>0.57</u>	<u>2124</u>	<u>0.65</u>	<u>2235</u>	<u>0.73</u>	<u>2341</u>	<u>0.82</u>
579	2200	1530	0.33	1602	0.37	1671	0.40	1802	0.48	1926	0.55	2045	0.63	<u>2158</u>	<u>0.72</u>	<u>2266</u>	<u>0.81</u>	<u>2370</u>	<u>0.90</u>
631	2400	1590	0.39	1659	0.43	1725	0.47	1851	0.54	1971	0.62	2085	0.70	2195	0.79	<u>2300</u>	<u>0.88</u>	<u>2402</u>	<u>0.98</u>
684	2600	1655	0.45	1721	0.49	1784	0.53	1906	0.62	2021	0.70	2131	0.79	2237	0.88	2339	0.97	<u>2438</u>	<u>1.07</u>
736	2800	1720	0.52	1784	0.56	1845	0.61	1962	0.70	2074	0.79	2180	0.88	2282	0.97	2381	1.06	2477	1.16
789	3000	1788	0.60	1850	0.64	1910	0.69	2023	0.79	2130	0.89	2234	0.98	2333	1.08	2428	1.17	2521	1.27
842	3200	1857	0.68	1918	0.73	1976	0.78	2086	0.89	2190	0.99	2290	1.09	2386	1.20	2479	1.30	2569	1.40
894	3400	1927	0.77	1986	0.83	2042	0.88	2150	0.99	2251	1.10	2348	1.21	2441	1.32	2532	1.43	2620	1.54
947	3600	1999	0.87	2056	0.93	2111	0.99	2217	1.11	2315	1.23	2409	1.34	2500	1.46	2588	1.57	2674	1.69
999	3800	2070	0.98	2126	1.04	2180	1.10	2283	1.23	2380	1.36	2472	1.48	2560	1.60	2645	1.72	2729	1.85
1052	4000	2143	1.09	2199	1.16	2251	1.23	2351	1.37	2447	1.50	2537	1.63	2623	1.76	2706	1.89	2787	2.01
1105	4200	2217	1.22	2272	1.30	2324	1.37	2422	1.51	2514	1.65	2603	1.79	2688	1.93	2769	2.06	2848	2.20
1157	4400	2290	1.36	2344	1.44	2395	1.51	2491	1.66	2582	1.81	2669	1.96	2752	2.10	2832	2.24	2909	2.38
1210	4600	2365	1.51	2418	1.59	2468	1.67	2563	1.83	2652	1.98	2737	2.14	2819	2.29	2898	2.44	2974	2.59
1262	4800	2439	1.68	2491	1.76	2540	1.84	2634	2.00	2722	2.17	2805	2.33	2885	2.49	2963	2.65	3038	2.80
1315	5000	2515	1.85	2566	1.94	2615	2.02	2707	2.19	2794	2.36	2875	2.53	2954	2.70	3030	2.87	3104	3.03
1368	5200	2592	2.04	2642	2.13	2689	2.22	2781	2.40	2866	2.57	2946	2.75	3024	2.93	3098	3.10	3171	3.27
1420	5400	2668	2.24	2717	2.33	2763	2.42	2853	2.61	2937	2.79	3017	2.98	3093	3.16	3166	3.34	3237	3.52
1473	5600	2745	2.45	2793	2.55	2839	2.65	2927	2.84	3011	3.03	3089	3.22	3164	3.41	3236	3.60	3306	3.79
1525	5800	2821	2.68	2869	2.78	2914	2.88	3001	3.08	3083	3.28	3161	3.47	3235	3.67	3306	3.87	3374	4.06

CFM	OV	6" SP		7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
631	2400	<u>2594</u>	<u>1.17</u>	<u>2774</u>	<u>1.37</u>	2944	1.58	3105	1.80	3259	2.02								
684	2600	<u>2626</u>	<u>1.27</u>	<u>2803</u>	<u>1.48</u>	<u>2970</u>	<u>1.70</u>	3130	1.93	3282	2.16	3427	2.39	3567	2.63				
736	2800	<u>2661</u>	<u>1.37</u>	<u>2835</u>	<u>1.60</u>	<u>2999</u>	<u>1.82</u>	<u>3156</u>	<u>2.06</u>	<u>3306</u>	<u>2.29</u>	3451	2.54	3589	2.79	3723	3.05	3852	3.31
789	3000	2700	1.49	<u>2870</u>	<u>1.72</u>	<u>3032</u>	<u>1.95</u>	<u>3186</u>	<u>2.20</u>	<u>3334</u>	<u>2.45</u>	<u>3476</u>	<u>2.70</u>	3614	2.96	3746	3.23	3874	3.50
842	3200	2743	1.62	2909	1.85	<u>3067</u>	<u>2.09</u>	<u>3219</u>	<u>2.35</u>	<u>3365</u>	<u>2.61</u>	<u>3505</u>	<u>2.87</u>	<u>3640</u>	<u>3.14</u>	<u>3771</u>	<u>3.41</u>	3898	3.69
894	3400	2788	1.76	2950	1.99	3105	2.24	<u>3254</u>	<u>2.50</u>	<u>3398</u>	<u>2.77</u>	<u>3536</u>	<u>3.04</u>	<u>3669</u>	<u>3.32</u>	<u>3798</u>	<u>3.60</u>	<u>3924</u>	<u>3.89</u>
947	3600	2838	1.92	2995	2.16	3146	2.41	3292	2.67	<u>3433</u>	<u>2.95</u>	<u>3570</u>	<u>3.23</u>	<u>3701</u>	<u>3.52</u>	<u>3829</u>	<u>3.81</u>	<u>3952</u>	<u>4.11</u>
999	3800	2890	2.09	3043	2.33	3190	2.58	3333	2.85	3471	3.13	<u>3605</u>	<u>3.42</u>	<u>3735</u>	<u>3.72</u>	<u>3861</u>	<u>4.02</u>	<u>3983</u>	<u>4.33</u>
1052	4000	2944	2.27	3094	2.53	3238	2.78	3377	3.05	3512	3.34	3644	3.63	<u>3771</u>	<u>3.93</u>	<u>3896</u>	<u>4.25</u>	<u>4016</u>	<u>4.56</u>
1105	4200	3001	2.47	3148	2.74	3288	3.00	3424	3.27	3556	3.56	3685	3.86	3810	4.16	<u>3933</u>	<u>4.48</u>	<u>4052</u>	<u>4.81</u>
1157	4400	3058	2.67	3202	2.95	3340	3.23	3473	3.51	3602	3.80	3728	4.10	3851	4.41	3971	4.73	4089	5.06
1210	4600	3119	2.88	3259	3.18	3395	3.48	3525	3.77	3652	4.06	3775	4.36	3895	4.68	4013	5.00		
1262	4800	3181	3.11	3317	3.42	3450	3.73	3578	4.03	3703	4.34	3823	4.64	3941	4.96	4057	5.29		
1315	5000	3245	3.35	3379	3.67	3508	4.00	3634	4.32	3756	4.63	3875	4.95	3990	5.27				
1368	5200	3310	3.61	3441	3.94	3568	4.28</												

RBF 15

Outlet Area = 0.478 Sq. Ft.

Wheel Dia. = 15.625

Fan Efficiency Grade = FEG60

Tip Speed = 4.091 x RPM

CFM	OV	0.5" SP		1" SP		1.5" SP		2" SP		2.5" SP		3" SP		3.5" SP		4" SP		4.5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
478	1000	712	0.08	919	0.15	1085	0.21	<u>1229</u>	<u>0.28</u>	<u>1360</u>	<u>0.35</u>	1481	0.43	1593	0.51	1699	0.60	1799	0.69
574	1200	760	0.11	961	0.19	1121	0.27	1261	0.35	1386	0.42	<u>1502</u>	<u>0.50</u>	<u>1611</u>	<u>0.59</u>	1714	0.68	1812	0.77
669	1400	811	0.14	1004	0.23	1162	0.32	1297	0.41	1420	0.51	1532	0.60	1637	0.69	<u>1736</u>	<u>0.78</u>	<u>1830</u>	<u>0.88</u>
765	1600	866	0.19	1051	0.28	1205	0.38	1338	0.49	1457	0.59	1567	0.70	1670	0.81	1767	0.91	1858	1.01
860	1800	923	0.24	1100	0.34	1249	0.45	1380	0.57	1498	0.68	1606	0.81	1706	0.93	1801	1.05	1891	1.16
956	2000	984	0.30	1153	0.42	1297	0.53	1425	0.66	1541	0.79	1647	0.92	1746	1.05	1839	1.19	1927	1.32
1052	2200	1047	0.38	1207	0.50	1347	0.63	1471	0.76	1585	0.89	1690	1.04	1788	1.18	1879	1.33	1966	1.48
1147	2400	1112	0.47	1264	0.60	1398	0.74	1519	0.87	1630	1.01	1734	1.17	1830	1.33	1921	1.48	2007	1.64
1243	2600	1178	0.57	1323	0.71	1453	0.86	1570	1.01	1678	1.16	1779	1.31	1874	1.48	1964	1.65	2049	1.82
1338	2800	1246	0.70	1383	0.84	1508	1.00	1622	1.16	1728	1.32	1827	1.48	1920	1.65	2008	1.82	2092	2.01
1434	3000	1315	0.83	1445	0.98	1565	1.15	1677	1.33	1780	1.50	1876	1.66	1967	1.83	2054	2.02	2137	2.21
1530	3200	1385	0.99	1509	1.15	1625	1.32	1732	1.51	1833	1.69	1927	1.87	2017	2.05	2102	2.24	2183	2.43
1625	3400	1456	1.16	1574	1.33	1685	1.51	1789	1.71	1887	1.91	1979	2.10	2067	2.29	2150	2.48	2230	2.67
1721	3600	1527	1.36	1640	1.54	1747	1.73	1847	1.92	1943	2.14	2033	2.34	2119	2.55	2201	2.75	2279	2.95
1816	3800	1599	1.57	1707	1.77	1810	1.96	1907	2.16	2000	2.38	2088	2.61	2172	2.82	2252	3.03	2329	3.24
1912	4000	1672	1.81	1776	2.02	1874	2.22	1968	2.43	2058	2.65	2144	2.89	2227	3.12	2305	3.35	2381	3.57
2008	4200	1746	2.08	1845	2.29	1940	2.51	2031	2.72	2118	2.95	2202	3.19	2282	3.44	2360	3.68	2434	3.92
2103	4400	1819	2.36	1914	2.59	2006	2.82	2094	3.04	2178	3.27	2260	3.52	2338	3.77	2414	4.03	2487	4.28
2199	4600	1893	2.68	1985	2.92	2073	3.15	2158	3.38	2240	3.62	2319	3.87	2396	4.14	2471	4.41	2543	4.68
2294	4800	1967	3.02	2055	3.27	2141	3.52	2223	3.76	2303	4.01	2380	4.26	2455	4.53	2527	4.81	2598	5.09

CFM	OV	5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
765	1600	<u>1946</u>	<u>1.12</u>	<u>2030</u>	<u>1.22</u>	<u>2112</u>	<u>1.34</u>	<u>2191</u>	<u>1.46</u>	2268	1.58	2343	1.71	2415	1.83	2486	1.97	2555	2.10
860	1800	1977	1.28	2059	1.40	<u>2138</u>	<u>1.51</u>	<u>2215</u>	<u>1.63</u>	<u>2289</u>	<u>1.75</u>	<u>2362</u>	<u>1.88</u>	<u>2433</u>	<u>2.01</u>	<u>2503</u>	<u>2.15</u>	2571	2.29
956	2000	2012	1.45	2093	1.59	2171	1.71	2245	1.84	2318	1.97	<u>2389</u>	<u>2.10</u>	<u>2458</u>	<u>2.23</u>	<u>2525</u>	<u>2.37</u>	<u>2591</u>	<u>2.50</u>
1052	2200	2049	1.63	2129	1.78	2206	1.92	2280	2.07	2351	2.21	2421	2.35	2488	2.49	2554	2.63	<u>2618</u>	<u>2.77</u>
1147	2400	2089	1.80	2167	1.96	2242	2.12	2315	2.29	2386	2.45	2455	2.61	2522	2.76	2587	2.92	2650	3.07
1243	2600	2130	1.99	2208	2.16	2282	2.34	2354	2.51	2424	2.69	2491	2.86	2557	3.04	2622	3.21	2685	3.39
1338	2800	2173	2.19	2250	2.38	2323	2.56	2394	2.75	2463	2.93	2530	3.12	2595	3.31	2658	3.50	2720	3.69
1434	3000	2216	2.40	2292	2.60	2366	2.80	2436	3.00	2505	3.20	2571	3.40	2635	3.60	2697	3.80	2758	4.00
1530	3200	2261	2.63	2337	2.84	2409	3.05	2479	3.26	2547	3.47	2613	3.68	2676	3.89	2738	4.11	2798	4.32
1625	3400	2307	2.88	2381	3.09	2453	3.31	2522	3.53	2590	3.76	2655	3.98	2718	4.21	2780	4.43	2839	4.65
1721	3600	2355	3.16	2428	3.37	2499	3.60	2567	3.83	2634	4.06	2698	4.30	2761	4.54	2822	4.77	2882	5.01
1816	3800	2404	3.46	2475	3.68	2545	3.90	2613	4.14	2678	4.38	2742	4.63	2804	4.87	2865	5.13	2924	5.37
1912	4000	2454	3.79	2525	4.02	2593	4.25	2660	4.49	2725	4.73	2788	4.98	2849	5.24	2909	5.50	2968	5.76
2008	4200	2506	4.15	2575	4.38	2643	4.62	2708	4.86	2772	5.11	2834	5.36	2895	5.62	2955	5.89	3013	6.16
2103	4400	2558	4.53	2626	4.78	2693	5.02	2757	5.27	2820	5.52	2882	5.78	2942	6.04	3000	6.31	3058	6.59
2199	4600	2612	4.94	2679	5.20	2745	5.46	2808	5.71	2870	5.97	2931	6.23	2990	6.50	3048	6.77	3105	7.05
2294	4800	2666	5.37	2732	5.64	2797	5.91	2859	6.18	2921	6.45	2980	6.71	3039	6.99	3096	7.26	3152	7.54
2390	5000	2722	5.82	2787	6.11	2851	6.40	2912	6.68	2973	6.96	3031	7.23	3089	7.51	3146	7.80	3201	8.08
2486	5200	2779	6.31	2843	6.61	2905	6.91	2966	7.21	3025	7.49	3084	7.79	3140	8.07	3196	8.36	3251	8.66
2581	5400	2835	6.81	2899	7.13	2960	7.44	3020	7.75	3079	8.06	3136	8.36	3192	8.66	3247	8.96	3301	9.26
2677	5600	2894	7.35	2956	7.68	3016	8.00	3076	8.34	3133	8.65	3190	8.98	3245	9.29	3299	9.60	3353	9.91
2772	5800	2953	7.92	3013	8.25	3073	8.59	3131	8.93	3188	9.27	3244	9.61	3298	9.93				

CFM	OV	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1243	2600	2805	3.72	2921	4.05	3032	4.38	3140	4.72	3245	5.07	3347	5.43	3447	5.80	3545	6.18	3641	6.58
1338	2800	2840	4.06	2955	4.43	3065	4.79	3171	5.14	<u>3274</u>	<u>5.50</u>	<u>3374</u>	<u>5.87</u>	<u>3472</u>	<u>6.24</u>	<u>3567</u>	<u>6.62</u>	<u>3661</u>	<u>7.02</u>
1434	3000	2876	4.40	2990	4.81	3099	5.20	3205	5.59	3306	5.97	3405	6.36	3501	6.74	3595	7.13		
1530	3200	2915	4.75	3027	5.19	3135	5.62	3240	6.05	3341	6.46	3439	6.88	3533	7.28	3626	7.69		
1625	3400	2955	5.11	3066	5.57	3172	6.02	3275	6.48	3376	6.94	3473	7.39	3568	7.84	3659	8.27		
1721	3600	2997	5.49	3106	5.96	3212	6.45	3314	6.93	3413	7.42	3509	7.90	3603	8.39				
1816	3800	3039	5.88	3148	6.38	3252	6.88	3353	7.39	3451	7.90	3546	8.41	3639	8.93				
1912	4000	3081	6.28	3190	6.81	3294	7.34	3395	7.87	3492	8.41	3586	8.94						
2008	4200	3125	6.71	3233	7.27	3337	7.82	3437	8.37	3533	8.92	3627	9.49						
2103	4400	3169	7.15	3276	7.73	3379	8.31	3479	8.89	3575	9.46	3668	10.05						
2199	4600	3215	7.63	3321	8.22	3423	8.82	3522	9.43	3618	10.04								
2294	4800	3261	8.12	3366	8.73	3467	9.35	3565	9.97	3660	10.61								
2390	5000	3308	8.66	3412	9.27	3512	9.90	3610	10.56										
2486	5200	3357	9.25	3459	9.86	3559	10.50	3655	11.16										
2581	5400	3406	9.87	3507	10.49	3605	11.13												
2677	5600	3456	10.53	3557	11.17	3654	11.82												
2772	5800	3507	11.23	3606	11.87														
2868	6000	3559	11.97	3657	12.63														
2964	6200	3612	12.74																
3059	6400	3665	13.54																

1. Performance certified is for Installation Type D: Ducted Inlet, Ducted Outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. Underlined figures indicate maximum static efficiency.

CFM	OV	0.5" SP		1" SP		1.5" SP		2" SP		2.5" SP		3" SP		3.5" SP		4" SP		4.5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
938	1000	474	0.14	618	0.25	<u>733</u>	<u>0.37</u>	835	0.50	928	0.64								
1126	1200	503	0.18	642	0.31	754	0.45	<u>851</u>	<u>0.59</u>	<u>939</u>	<u>0.74</u>	1021	0.90	1098	1.07				
1313	1400	536	0.24	668	0.39	777	0.54	873	0.71	<u>958</u>	<u>0.87</u>	1036	1.04	1109	1.21	1180	1.40	1247	1.60
1501	1600	572	0.31	697	0.47	803	0.65	896	0.83	979	1.01	1056	1.20	<u>1127</u>	<u>1.39</u>	<u>1195</u>	<u>1.58</u>	<u>1259</u>	<u>1.78</u>
1688	1800	611	0.40	728	0.57	830	0.76	921	0.96	1003	1.16	1078	1.37	1149	1.58	1215	1.8	1277	2.01
1876	2000	652	0.51	761	0.69	860	0.89	948	1.11	1028	1.33	1102	1.56	1171	1.79	1236	2.02	1298	2.25
2064	2200	694	0.64	797	0.83	891	1.04	976	1.27	1055	1.51	1128	1.76	1195	2.01	1259	2.26	1320	2.51
2251	2400	736	0.78	835	0.99	924	1.21	1007	1.45	1083	1.71	1154	1.98	1221	2.25	1284	2.52	1344	2.79
2439	2600	779	0.95	875	1.19	959	1.42	1038	1.66	1113	1.93	1182	2.21	1248	2.50	1310	2.80	1369	3.09
2626	2800	823	1.14	916	1.40	996	1.65	1072	1.91	1144	2.18	1211	2.46	1276	2.78	1337	3.09	1395	3.40
2814	3000	867	1.36	958	1.65	1034	1.91	1107	2.18	1176	2.46	1242	2.76	1305	3.07	1365	3.4	1422	3.74
3002	3200	912	1.61	1000	1.92	1075	2.20	1143	2.48	1210	2.78	1274	3.08	1336	3.41	1394	3.74	1450	4.09
3189	3400	957	1.89	1043	2.22	1116	2.53	1182	2.82	1246	3.13	1308	3.45	1367	3.77	1424	4.11	1479	4.47
3377	3600	1002	2.19	1086	2.56	1158	2.89	1222	3.20	1283	3.52	1342	3.84	1400	4.18	1456	4.53	1510	4.90
3564	3800	1048	2.53	1129	2.92	1200	3.28	1263	3.62	1321	3.94	1378	4.28	1434	4.63	1489	5.00	1541	5.36
3752	4000	1094	2.90	1173	3.32	1242	3.71	1304	4.07	1361	4.41	1416	4.76	1470	5.12	1523	5.50	1574	5.88
3940	4200	1141	3.32	1217	3.76	1285	4.17	1346	4.56	1402	4.92	1455	5.29	1506	5.65	1558	6.04	1608	6.44
4127	4400	1187	3.76	1261	4.23	1328	4.67	1388	5.08	1443	5.47	1494	5.84	1544	6.23	1594	6.63	1642	7.03
4315	4600	1235	4.27	1306	4.75	1371	5.21	1431	5.66	1485	6.07	1535	6.46	1584	6.86	1631	7.26	1678	7.68
4502	4800	1282	4.80	1351	5.30	1414	5.79	1473	6.26	1527	6.71	1577	7.13	1624	7.54	1670	7.95	1715	8.37

CFM	OV	5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1501	1600	1321	2.00	1381	2.22	1439	2.44	1495	2.67										
1688	1800	<u>1337</u>	<u>2.23</u>	<u>1394</u>	<u>2.45</u>	<u>1450</u>	<u>2.68</u>	1505	2.93	1558	3.18	1609	3.43	1660	3.69				
1876	2000	<u>1357</u>	<u>2.49</u>	<u>1413</u>	<u>2.73</u>	<u>1467</u>	<u>2.97</u>	<u>1519</u>	<u>3.21</u>	<u>1570</u>	<u>3.47</u>	<u>1620</u>	<u>3.73</u>	1669	4.00	1717	4.27	1764	4.55
2064	2200	<u>1378</u>	<u>2.77</u>	<u>1434</u>	<u>3.03</u>	<u>1487</u>	<u>3.29</u>	<u>1538</u>	<u>3.55</u>	<u>1588</u>	<u>3.81</u>	<u>1637</u>	<u>4.08</u>	<u>1684</u>	<u>4.35</u>	<u>1730</u>	<u>4.63</u>	<u>1776</u>	<u>4.92</u>
2251	2400	1401	3.07	1456	3.35	1509	3.63	1560	3.91	1609	4.19	<u>1656</u>	<u>4.47</u>	<u>1703</u>	<u>4.76</u>	<u>1748</u>	<u>5.05</u>	<u>1792</u>	<u>5.34</u>
2439	2600	1425	3.38	1479	3.68	1531	3.98	1582	4.28	1630	4.58	1678	4.89	1724	5.20	<u>1768</u>	<u>5.50</u>	<u>1811</u>	<u>5.81</u>
2626	2800	1450	3.71	1504	4.03	1555	4.35	1605	4.67	1653	5.00	1700	5.32	1745	5.65	1790	5.98	1833	6.31
2814	3000	1477	4.08	1529	4.41	1580	4.75	1629	5.09	1677	5.43	1723	5.77	1768	6.12	1812	6.47	1854	6.81
3002	3200	1504	4.45	1556	4.81	1606	5.17	1655	5.53	1702	5.89	1747	6.25	1792	6.62	1835	6.98	1877	7.35
3189	3400	1532	4.84	1584	5.23	1633	5.61	1681	5.99	1727	6.36	1773	6.76	1816	7.13	1859	7.52	1901	7.91
3377	3600	1562	5.28	1612	5.67	1661	6.07	1708	6.47	1754	6.88	1799	7.28	1842	7.68	1885	8.10	1926	8.50
3564	3800	1592	5.74	1642	6.15	1689	6.55	1736	6.97	1781	7.40	1826	7.83	1869	8.26	1911	8.69	1951	9.10
3752	4000	1624	6.27	1672	6.67	1719	7.08	1765	7.52	1810	7.96	1853	8.40	1896	8.86	1937	9.30	1978	9.76
3940	4200	1657	6.84	1704	7.25	1750	7.67	1795	8.10	1839	8.55	1882	9.01	1924	9.48	1965	9.95	2005	10.42
4127	4400	1690	7.45	1737	7.88	1782	8.30	1826	8.74	1869	9.19	1911	9.65	1953	10.14	1993	10.62	2033	11.11
4315	4600	1725	8.11	1770	8.54	1815	8.99	1858	9.43	1900	9.89	1942	10.36	1982	10.84	2022	11.33	2061	11.83
4502	4800	1760	8.81	1804	9.25	1848	9.71	1891	10.18	1932	10.64	1973	11.12	2013	11.60	2052	12.10	2091	12.62
4690	5000	1797	9.58	1840	10.03	1882	10.49	1924	10.97	1965	11.45	2005	11.93	2045	12.44	2083	12.93	2121	13.45
4878	5200	1835	10.40	1876	10.85	1918	11.34	1959	11.83	1999	12.32	2038	12.81	2077	13.32	2115	13.83	2152	14.34
5065	5400	1873	11.25	1914	11.74	1954	12.22	1994	12.73	2033	13.22	2072	13.74	2110	14.25	2147	14.77	2184	15.30
5253	5600	1913	12.19	1952	12.67	1991	13.17	2030	13.68	2068	14.19	2106	14.72	2144	15.26	2181	15.80	2217	16.33
5440	5800	1954	13.20	1992	13.69	2029	14.17	2067	14.70	2104	15.22	2142	15.77	2178	16.30	2214	16.84	2250	17.40

CFM	OV	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2439	2600	1895	6.43	1976	7.07	2055	7.74	2131	8.42	2206	9.13	2279	9.86	2349	10.59	2419	11.36		
2626	2800	1916	6.97	1995	7.63	2072	8.31	2146	9.00	2219	9.72	2290	10.46	2359	11.21	2427	11.99	2494	12.79
2814	3000	1937	7.52	2016	8.23	2091	8.93	2165	9.66	2236	10.39	2305	11.14	2373	11.91	2439	12.69	2504	13.49
3002	3200	1959	8.10	2038	8.85	2113	9.60	2185	10.35	2255	11.11	2323	11.88	2389	12.66	2454	13.46	2518	14.28
3189	3400	1982	8.69	2059	9.47	2134	10.27	2206	11.07	2276	11.88	2343	12.67	2408	13.48	2472	14.30	2535	15.14
3377	3600	2006	9.32	2082	10.13	2157	10.98	2228	11.81	2298	12.67	2364	13.50	2429	14.35	2492	15.20		
3564	3800	2031	9.97	2107	10.84	2180	11.70	2251	12.58	2319	13.46	2386	14.35	2451	15.25	2514	16.15		
3752	4000	2056	10.65	2132	11.56	2204	12.46	2274	13.37	2342	14.29	2408	15.22	2473	16.17	2535	17.10		
3940	4200	2083	11.37	2157	12.30	2229	13.25	2299	14.21	2366	15.16	2431	16.12	2495	17.10				
4127	4400	2110	12.11	2184	13.10	2255	14.08	2324	15.07	2391	16.07	2455	17.06	2518	18.06				
4315	4600	2137	12.86	2211	13.91	2281	14.93	2350	15.97	2416	17.00	2480	18.04						
4502	4800	2166	13.67	2238	14.73	2308	15.81	2376	16.90	2442	17.98	2506	19.06						
4690	5000	2195	14.51	2267	15.62	2336	16.73	2403	17.85	2468	18.97	2532	20.11						
4878	5200	2225	15.42	2296	16.54	2364	17.67	2431	18.85	2496	20.03								
5065	5400	2256	16.39	2325	17.50	2393	18.67	2459	19.87	2523	21.08								
5253	5600	2288	17.44	2356	18.56	2423	19.74	2488	20.95										
5440	5800	2320	18.53	2387	19.66	2453	20.85	2517	22.07										
5628	6000	2353	19.70	2420	20.87	2485	22.07												
5816	6200	2386	20.92	2452	22.11	2516	23.32												
6003	6400	2421	22.23	2485	23.42														

CFM	OV	0.5" SP		1" SP		1.5" SP		2" SP		2.5" SP		3" SP		3.5" SP		4" SP		4.5" SP			
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1600	1000	361	0.23	472	0.43	560	0.63	637	0.85	708	1.10										
1920	1200	384	0.31	490	0.54	576	0.77	<u>650</u>	<u>1.02</u>	<u>717</u>	<u>1.27</u>	779	1.54	839	1.84						
2240	1400	408	0.40	510	0.66	593	0.93	666	1.20	<u>731</u>	<u>1.48</u>	<u>791</u>	<u>1.77</u>	<u>847</u>	<u>2.07</u>	901	2.40	952	2.73		
2560	1600	435	0.52	531	0.79	613	1.10	683	1.41	747	1.72	806	2.04	<u>860</u>	<u>2.36</u>	<u>912</u>	<u>2.70</u>	<u>961</u>	<u>3.04</u>		
2880	1800	465	0.68	555	0.96	633	1.29	703	1.64	765	1.98	823	2.34	877	2.70	<u>927</u>	<u>3.06</u>	<u>975</u>	<u>3.43</u>		
3200	2000	496	0.86	580	1.17	655	1.50	723	1.89	784	2.27	841	2.66	893	3.04	943	3.44	991	3.85		
3520	2200	528	1.08	607	1.41	679	1.76	744	2.15	804	2.57	860	3.00	912	3.42	961	3.85	1007	4.28		
3840	2400	560	1.32	636	1.69	704	2.06	767	2.46	826	2.91	880	3.36	931	3.82	979	4.28	1025	4.75		
4160	2600	593	1.61	666	2.01	730	2.40	791	2.82	848	3.28	901	3.76	952	4.27	999	4.76	1044	5.26		
4480	2800	626	1.93	697	2.38	758	2.79	817	3.24	872	3.70	924	4.20	973	4.72	1019	5.25	1064	5.80		
4800	3000	660	2.31	729	2.79	788	3.24	843	3.69	896	4.17	947	4.69	995	5.23	1041	5.79	1084	6.35		
5120	3200	693	2.72	761	3.25	818	3.73	871	4.21	922	4.71	971	5.24	1018	5.79	1063	6.37	1106	6.97		
5440	3400	728	3.19	794	3.77	850	4.29	900	4.78	949	5.31	996	5.84	1042	6.41	1086	7.00	1128	7.61		
5760	3600	762	3.70	826	4.32	881	4.89	930	5.42	977	5.96	1023	6.53	1067	7.11	1110	7.71	1151	8.33		
6080	3800	797	4.28	859	4.94	913	5.55	961	6.12	1006	6.68	1050	7.26	1093	7.87	1135	8.49	1175	9.12		
6400	4000	832	4.91	892	5.61	945	6.27	993	6.90	1036	7.47	1078	8.06	1120	8.70	1160	9.33	1200	9.99		
6720	4200	867	5.60	926	6.36	978	7.07	1025	7.73	1067	8.34	1108	8.96	1147	9.58	1187	10.26	1225	10.92		
7040	4400	903	6.37	959	7.15	1010	7.90	1057	8.63	1098	9.26	1138	9.92	1176	10.56	1214	11.24	1251	11.93		
7360	4600	939	7.21	993	8.02	1043	8.82	1089	9.58	1130	10.28	1169	10.96	1206	11.63	1242	12.31	1278	13.02		
7680	4800	974	8.09	1028	8.98	1076	9.80	1121	10.61	1162	11.36	1200	12.07	1236	12.76	1271	13.46	1306	14.20		

CFM	OV	5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP		9" SP			
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2560	1600	<u>1008</u>	<u>3.40</u>	1054	3.78	1099	4.17														
2880	1800	<u>1020</u>	<u>3.79</u>	<u>1064</u>	<u>4.18</u>	<u>1107</u>	<u>4.58</u>	1149	5.00	1189	5.42	1229	5.86	1267	6.30						
3200	2000	<u>1035</u>	<u>4.24</u>	<u>1078</u>	<u>4.65</u>	<u>1120</u>	<u>5.07</u>	<u>1160</u>	<u>5.49</u>	<u>1199</u>	<u>5.92</u>	<u>1237</u>	<u>6.37</u>	<u>1275</u>	<u>6.83</u>	1311	7.30	1347	7.78		
3520	2200	<u>1052</u>	<u>4.73</u>	<u>1094</u>	<u>5.16</u>	<u>1135</u>	<u>5.61</u>	<u>1174</u>	<u>6.05</u>	<u>1212</u>	<u>6.50</u>	<u>1249</u>	<u>6.96</u>	<u>1285</u>	<u>7.42</u>	<u>1321</u>	<u>7.91</u>	<u>1356</u>	<u>8.41</u>		
3840	2400	1069	5.23	1111	5.70	1151	6.18	1190	6.66	1228	7.15	<u>1264</u>	<u>7.63</u>	<u>1299</u>	<u>8.11</u>	<u>1334</u>	<u>8.61</u>	<u>1368</u>	<u>9.12</u>		
4160	2600	1087	5.76	1128	6.26	1168	6.77	1207	7.30	1244	7.81	1280	8.33	1315	8.85	<u>1349</u>	<u>9.37</u>	<u>1382</u>	<u>9.90</u>		
4480	2800	1106	6.33	1147	6.87	1186	7.41	1224	7.95	1261	8.51	1297	9.07	1332	9.63	1366	10.20	1398	10.74		
4800	3000	1126	6.93	1167	7.52	1205	8.08	1243	8.67	1279	9.25	1314	9.83	1349	10.43	1382	11.02	1415	11.62		
5120	3200	1147	7.57	1187	8.19	1225	8.80	1262	9.41	1298	10.03	1333	10.65	1367	11.27	1400	11.90	1432	12.52		
5440	3400	1168	8.24	1208	8.90	1245	9.54	1282	10.20	1318	10.86	1352	11.50	1386	12.17	1418	12.81	1450	13.47		
5760	3600	1191	8.98	1229	9.64	1266	10.32	1303	11.03	1338	11.72	1372	12.40	1405	13.09	1437	13.77	1469	14.47		
6080	3800	1214	9.78	1251	10.44	1288	11.15	1324	11.88	1359	12.62	1392	13.33	1425	14.06	1457	14.78	1488	15.50		
6400	4000	1238	10.66	1275	11.35	1311	12.06	1346	12.80	1380	13.55	1413	14.30	1446	15.08	1478	15.86	1509	16.63		
6720	4200	1262	11.60	1299	12.32	1334	13.04	1368	13.77	1402	14.55	1435	15.34	1467	16.13	1498	16.92	1529	17.74		
7040	4400	1288	12.65	1323	13.36	1358	14.10	1392	14.86	1425	15.64	1457	16.43	1489	17.25	1520	18.08	1550	18.91		
7360	4600	1314	13.76	1349	14.51	1383	15.27	1416	16.03	1448	16.80	1480	17.61	1511	18.43	1542	19.30	1572	20.16		
7680	4800	1341	14.96	1375	15.73	1408	16.49	1441	17.29	1473	18.10	1504	18.90	1535	19.75	1564	20.57	1594	21.46		
8000	5000	1369	16.26	1402	17.04	1434	17.81	1466	18.62	1498	19.47	1528	20.27	1558	21.11	1588	21.99	1617	22.87		
8320	5200	1397	17.61	1429	18.41	1461	19.24	1492	20.06	1523	20.91	1553	21.75	1583	22.63	1612	23.50	1641	24.41		
8640	5400	1427	19.11	1458	19.92	1488	20.73	1519	21.60	1549	22.45	1579	23.34	1608	24.21	1637	25.12	1665	26.02		
8960	5600	1457	20.68	1487	21.51	1517	22.36	1546	23.20	1576	24.11	1605	25.00	1633	25.87	1662	26.83	1689	27.71		
9280	5800	1487	22.33	1517	23.21	1546	24.08	1574	24.92	1603	25.84	1632	26.78	1660	27.70	1687	28.60	1715	29.58		

CFM	OV	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP			
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4160	2600	<u>1447</u>	<u>10.98</u>	<u>1508</u>	<u>12.06</u>	<u>1569</u>	<u>13.21</u>	<u>1627</u>	<u>14.37</u>	<u>1684</u>	<u>15.58</u>	<u>1740</u>	<u>16.84</u>	<u>1794</u>	<u>18.11</u>	<u>1847</u>	<u>19.41</u>				
4480	2800	<u>1462</u>	<u>11.88</u>	<u>1523</u>	<u>13.02</u>	<u>1581</u>	<u>14.17</u>	<u>1638</u>	<u>15.36</u>	<u>1694</u>	<u>16.60</u>	<u>1748</u>	<u>17.85</u>	<u>1801</u>	<u>19.15</u>	<u>1853</u>	<u>20.48</u>	1904	21.84		
4800	3000	<u>1478</u>	<u>12.82</u>	<u>1538</u>	<u>14.02</u>	<u>1596</u>	<u>15.24</u>	<u>1652</u>	<u>16.47</u>	<u>1706</u>	<u>17.71</u>	<u>1759</u>	<u>18.99</u>	<u>1811</u>	<u>20.31</u>	<u>1862</u>	<u>21.66</u>	1912	23.05		
5120	3200	<u>1495</u>	<u>13.81</u>	<u>1555</u>	<u>15.09</u>	<u>1612</u>	<u>16.36</u>	<u>1667</u>	<u>17.64</u>	<u>1721</u>	<u>18.95</u>	<u>1773</u>	<u>20.26</u>	<u>1824</u>	<u>21.61</u>	<u>1873</u>	<u>22.95</u>	<u>1922</u>	<u>24.36</u>		
5440	3400	1512	14.81	1571	16.15	1629	17.53	1684	18.89	1737	20.25	<u>1788</u>	<u>21.61</u>	<u>1838</u>	<u>22.99</u>	<u>1887</u>	<u>24.40</u>	<u>1935</u>	<u>25.83</u>		
5760	3600	1530	15.87	1589	17.28	1645	18.69	1700	20.13	1753	21.58	1804	23.02	<u>1854</u>	<u>24.48</u>	<u>1902</u>	<u>25.92</u>				
6080	3800	1549	16.98	1607	18.45	1663	19.94	1717	21.43	1770	22.96	1821	24.49	1870	25.99	1918	27.51				
6400	4000	1568	18.13	1626	19.68	1681	21.21	1735	22.79	1787	24.36	1837	25.93	1887	27.56	1935	29.17				
6720	4200	1588	19.34	1645	20.94	1700	22.56	1753	24.18	1805	25.84	1855	27.48	1904	29.16						
7040	4400	1609	20.61	1665	22.28	1720	23.98	1773	25.69	1824	27.39	1873	29.07	1921	30.78						
7360	4600	1630	21.91	1686	23.67	1740	25.44	1792	27.19	1843	28.97	1892	30.74								
7680	4800	1651	23.24	1707	25.10	1760	26.92	1812	28.77	1862	30.59	1911	32.44								
8000	5000	1673	24.67	1728	26.56	1781	28.47	1833	30.42	1883	32.35	1931	34.24								
8320	5200	1696	26.21	17																	

RBF 40

Outlet Area = 2.914 Sq. Ft. Wheel Dia. = 40

Fan Efficiency Grade = FEG71
Tip Speed = 10.472 x RPM

CFM	OV	0.5" SP		1" SP		1.5" SP		2" SP		2.5" SP		3" SP		3.5" SP		4" SP		4.5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2914	1000	263	0.39	<u>344</u>	<u>0.72</u>	<u>411</u>	<u>1.08</u>												
3497	1200	281	0.53	357	0.90	<u>420</u>	<u>1.29</u>	<u>476</u>	<u>1.72</u>	528	2.18								
4080	1400	299	0.69	372	1.10	432	1.55	<u>486</u>	<u>2.02</u>	<u>535</u>	<u>2.51</u>	581	3.03	624	3.56				
4662	1600	319	0.89	388	1.34	446	1.83	<u>498</u>	<u>2.35</u>	<u>545</u>	<u>2.89</u>	<u>589</u>	<u>3.44</u>	<u>630</u>	<u>4.01</u>	<u>670</u>	<u>4.62</u>	708	5.23
5245	1800	339	1.13	406	1.64	462	2.17	512	2.73	557	3.30	600	3.91	<u>640</u>	<u>4.53</u>	<u>678</u>	<u>5.17</u>	<u>714</u>	<u>5.81</u>
5828	2000	359	1.41	425	1.98	479	2.56	527	3.15	571	3.77	612	4.42	651	5.08	<u>688</u>	<u>5.76</u>	<u>723</u>	<u>6.45</u>
6411	2200	379	1.72	444	2.37	497	3.00	543	3.63	586	4.29	626	4.98	664	5.70	700	6.43	734	7.16
6994	2400	398	2.07	464	2.82	516	3.51	561	4.19	603	4.90	642	5.63	678	6.36	713	7.14	747	7.94
7576	2600	419	2.49	485	3.35	535	4.08	579	4.80	620	5.56	658	6.33	694	7.12	728	7.93	760	8.75
8159	2800	439	2.94	505	3.90	555	4.72	598	5.50	638	6.30	675	7.11	710	7.94	743	8.78	775	9.65
8742	3000	460	3.46	524	4.49	575	5.43	617	6.25	657	7.13	693	7.98	727	8.85	759	9.71	790	10.61
9325	3200	482	4.07	544	5.16	595	6.19	637	7.10	676	8.03	711	8.91	745	9.85	776	10.75	807	11.71
9908	3400	503	4.72	564	5.88	615	7.03	657	8.02	695	9.00	730	9.95	763	10.92	794	11.89	824	12.88
10490	3600	525	5.45	584	6.68	635	7.92	678	9.06	715	10.07	749	11.07	782	12.11	812	13.10	842	14.17
11073	3800	548	6.28	605	7.57	655	8.89	698	10.13	735	11.23	769	12.31	801	13.38	831	14.44	860	15.53
11656	4000	570	7.16	626	8.55	675	9.93	718	11.27	755	12.47	789	13.63	820	14.73	850	15.86	879	17.02
12239	4200	593	8.14	647	9.60	694	11.00	737	12.44	775	13.79	809	15.04	840	16.22	869	17.38	897	18.55
12822	4400	616	9.21	668	10.74	715	12.24	757	13.74	795	15.19	829	16.54	860	17.81	889	19.04	917	20.29
13404	4600	640	10.41	689	11.96	735	13.52	777	15.12	815	16.68	849	18.13	880	19.49	909	20.80	936	22.06
13987	4800	663	11.65	711	13.31	756	14.94	797	16.59	835	18.26	869	19.81	900	21.26	929	22.67	956	24.01

CFM	OV	5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP		9" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4662	1600	745	5.88																
5245	1800	<u>749</u>	<u>6.48</u>	783	7.17	817	7.90												
5828	2000	<u>757</u>	<u>7.16</u>	790	7.89	<u>822</u>	<u>8.64</u>	853	9.40	883	10.17	913	10.97						
6411	2200	<u>767</u>	<u>7.91</u>	<u>799</u>	<u>8.68</u>	<u>830</u>	<u>9.46</u>	<u>860</u>	<u>10.26</u>	<u>889</u>	<u>11.06</u>	<u>918</u>	<u>11.91</u>	946	12.75	973	13.59	1000	14.46
6994	2400	779	8.73	810	9.54	<u>840</u>	<u>10.36</u>	<u>869</u>	<u>11.19</u>	<u>898</u>	<u>12.06</u>	<u>925</u>	<u>12.90</u>	<u>952</u>	<u>13.77</u>	<u>979</u>	<u>14.68</u>	<u>1005</u>	<u>15.58</u>
7576	2600	792	9.61	822	10.46	851	11.31	<u>880</u>	<u>12.21</u>	<u>908</u>	<u>13.11</u>	<u>935</u>	<u>14.01</u>	<u>961</u>	<u>14.91</u>	<u>987</u>	<u>15.84</u>	<u>1012</u>	<u>16.77</u>
8159	2800	806	10.55	835	11.43	864	12.36	892	13.29	919	14.22	946	15.19	<u>972</u>	<u>16.15</u>	<u>997</u>	<u>17.11</u>	<u>1022</u>	<u>18.10</u>
8742	3000	821	11.57	849	12.48	878	13.48	905	14.44	932	15.45	958	16.44	983	17.42	1008	18.45	<u>1032</u>	<u>19.45</u>
9325	3200	836	12.65	865	13.66	892	14.64	919	15.67	945	16.69	970	17.71	995	18.77	1020	19.87	1044	20.94
9908	3400	853	13.89	881	14.91	908	15.95	934	16.99	960	18.08	984	19.12	1009	20.25	1033	21.37	1056	22.46
10490	3600	870	15.20	897	16.24	924	17.33	950	18.43	975	19.53	999	20.63	1023	21.77	1047	22.96	1070	24.13
11073	3800	888	16.63	914	17.68	940	18.79	966	19.96	991	21.11	1015	22.27	1038	23.41	1061	24.60	1084	25.83
11656	4000	906	18.14	932	19.26	958	20.45	983	21.62	1007	22.78	1031	23.99	1054	25.19	1077	26.44	1099	27.67
12239	4200	925	19.80	951	20.99	976	22.18	1000	23.36	1024	24.59	1047	25.81	1070	27.06	1093	28.37	1115	29.66
12822	4400	943	21.48	969	22.75	994	24.01	1018	25.26	1042	26.56	1064	27.77	1087	29.10	1109	30.40	1131	31.75
13404	4600	962	23.33	988	24.67	1013	26.00	1037	27.32	1060	28.62	1082	29.9	1104	31.22	1126	32.59	1147	33.92
13987	4800	982	25.35	1007	26.69	1032	28.10	1055	29.41	1078	30.78	1100	32.12	1122	33.52	1143	34.87	1164	36.28
14570	5000	1002	27.48	1026	28.81	1051	30.30	1074	31.68	1097	33.13	1119	34.54	1140	35.92	1161	37.34	1182	38.82
15153	5200	1022	29.73	1046	31.14	1070	32.61	1093	34.07	1116	35.58	1138	37.07	1159	38.52	1180	40.02	1200	41.46
15736	5400	1042	32.08	1066	33.57	1090	35.13	1112	36.56	1135	38.16	1157	39.72	1178	41.23	1198	42.70	1219	44.33
16318	5600	1062	34.54	1086	36.12	1109	37.67	1132	39.28	1154	40.85	1175	42.38	1197	44.07	1217	45.61	1237	47.20
16901	5800	1082	37.13	1106	38.79	1130	40.53	1152	42.12	1174	43.77	1195	45.38	1216	47.04	1236	48.64	1256	50.30

CFM	OV	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7576	2600	1062	18.72	1109	20.65	1156	22.71	1201	24.76										
8159	2800	<u>1070</u>	<u>20.09</u>	<u>1116</u>	<u>22.11</u>	<u>1161</u>	<u>24.19</u>	1205	26.33	1248	28.51	1290	30.73						
8742	3000	<u>1079</u>	<u>21.52</u>	<u>1125</u>	<u>23.67</u>	<u>1169</u>	<u>25.83</u>	<u>1212</u>	<u>28.05</u>	<u>1254</u>	<u>30.32</u>	1295	32.62	1335	34.96	1374	37.31		
9325	3200	<u>1090</u>	<u>23.09</u>	<u>1135</u>	<u>25.31</u>	<u>1178</u>	<u>27.54</u>	<u>1220</u>	<u>29.83</u>	<u>1261</u>	<u>32.16</u>	<u>1301</u>	<u>34.53</u>	<u>1340</u>	<u>36.94</u>	<u>1378</u>	<u>39.36</u>	1416	41.88
9908	3400	1102	24.75	1146	27.04	<u>1188</u>	<u>29.34</u>	<u>1230</u>	<u>31.76</u>	<u>1270</u>	<u>34.16</u>	<u>1309</u>	<u>36.59</u>	<u>1347</u>	<u>39.05</u>	<u>1385</u>	<u>41.61</u>	<u>1421</u>	<u>44.10</u>
10490	3600	1114	26.44	1158	28.88	1200	31.31	<u>1240</u>	<u>33.71</u>	<u>1280</u>	<u>36.24</u>	<u>1318</u>	<u>38.73</u>	<u>1356</u>	<u>41.32</u>	<u>1392</u>	<u>43.84</u>	<u>1429</u>	<u>46.56</u>
11073	3800	1128	28.29	1170	30.74	1212	33.32	1252	35.86	<u>1291</u>	<u>38.44</u>	<u>1329</u>	<u>41.06</u>	<u>1366</u>	<u>43.71</u>	<u>1402</u>	<u>46.36</u>		
11656	4000	1142	30.19	1184	32.78	1224	35.35	1264	38.05	1302	40.68	1340	43.43	<u>1376</u>	<u>46.11</u>	<u>1412</u>	<u>48.90</u>		
12239	4200	1157	32.22	1198	34.87	1238	37.58	1277	40.34	1315	43.13	1352	45.94	1388	48.75	<u>1423</u>	<u>51.58</u>		
12822	4400	1173	34.42	1213	37.11	1252	39.86	1291	42.77	1328	45.62	1364	48.47	1400	51.44	1435	54.40		
13404	4600	1189	36.72	1229	39.52	1267	42.31	1305	45.25	1342	48.24	1377	51.13	1413	54.26				
13987	4800	1205	39.12	1245	42.04	1283	44.94	1320	47.91	1356	50.92	1392	54.07	1426	57.11				
14570	5000	1222	41.71	1261	44.67	1299	47.68	1336	50.77	1371	53.78	1406	56.95						
15153	5200	1240	44.50	1278	47.49	1315	50.54	1352	53.73	1387	56.87	1421	60.04						
15736	5400	1258	47.40	1295	50.42	1332	53.61	1368	56.82	1403	60.07								
16318	5600	1276	50.41	1313	53.57	1349	56.78	1385	60.14	1419	63.39								
16901	5800	1294	53.54	1331	56.84	1367	60.19	1402	63.57										
17484	6000	1313	56.92	1350	60.37	1385	63.73	1420	67.25										
18067	6200	1332	60.43																

RBF 57

Outlet Area = 5.988 Sq. Ft. Wheel Dia. = 57.5

Fan Efficiency Grade = FEG71
Tip Speed = 15.053 x RPM

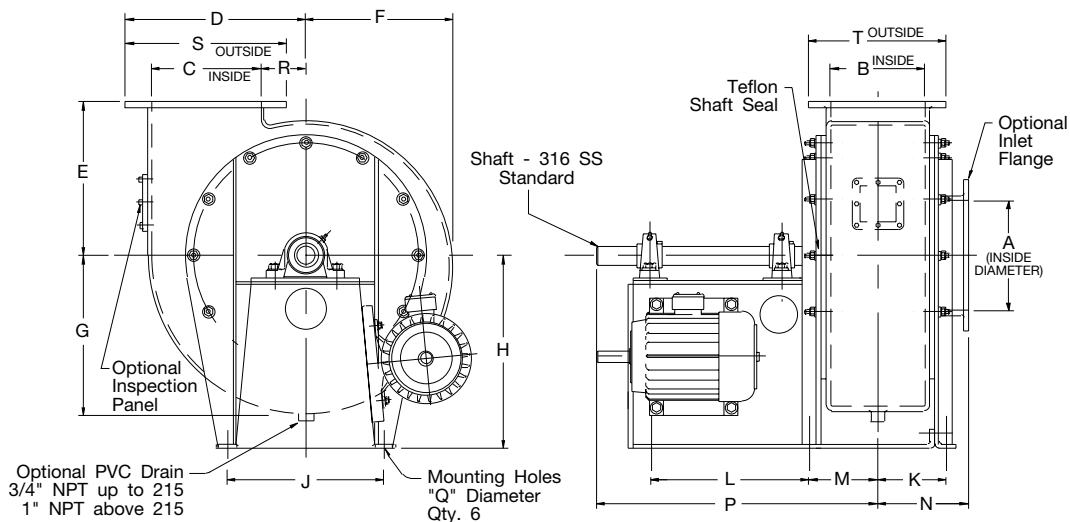
Performance Data

CFM	OV	0.5" SP		1" SP		1.5" SP		2" SP		2.5" SP		3" SP		3.5" SP		4" SP		4.5" SP			
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5988	1000	183	0.81	239	1.48	286	2.23														
7186	1200	195	1.08	248	1.84	<u>292</u>	<u>2.66</u>	331	3.54	367	4.48										
8383	1400	208	1.42	258	2.25	300	3.17	338	4.15	372	5.16	404	6.23	434	7.33						
9581	1600	221	1.82	269	2.74	310	3.76	346	4.83	379	5.94	409	7.05	438	8.24	466	9.50	492	10.74		
10778	1800	235	2.31	282	3.36	321	4.45	355	5.57	387	6.78	417	8.04	<u>445</u>	<u>9.32</u>	471	10.59	497	11.98		
11976	2000	249	2.88	295	4.06	332	5.21	366	6.46	397	7.76	425	9.06	453	10.48	478	11.82	503	13.29		
13174	2200	263	3.53	308	4.85	345	6.14	377	7.43	407	8.80	435	10.23	461	11.68	486	13.17	<u>510</u>	<u>14.68</u>		
14371	2400	276	4.22	322	5.78	358	7.18	389	8.55	418	9.99	446	11.55	471	13.06	495	14.62	519	16.30		
15569	2600	290	5.05	336	6.81	371	8.32	402	9.84	430	11.36	457	12.98	482	14.61	505	16.21	528	17.95		
16766	2800	305	6.03	350	7.96	385	9.65	415	11.24	443	12.91	468	14.51	493	16.27	516	17.99	538	19.76		
17964	3000	319	7.08	364	9.22	399	11.10	428	12.77	456	14.59	481	16.34	504	18.04	527	19.90	549	21.79		
19162	3200	334	8.30	377	10.51	413	12.68	442	14.53	469	16.41	494	18.30	517	20.15	539	22.04	560	23.95		
20359	3400	349	9.65	391	12.01	427	14.40	456	16.42	482	18.37	507	20.41	529	22.28	551	24.32	572	26.37		
21557	3600	364	11.13	405	13.64	440	16.14	470	18.47	496	20.59	520	22.67	542	24.68	564	26.87	584	28.93		
22754	3800	379	12.74	419	15.41	454	18.13	484	20.67	510	22.97	533	25.08	556	27.39	577	29.58	597	31.79		
23952	4000	395	14.60	434	17.45	468	20.27	498	23.03	524	25.52	547	27.81	569	30.13	590	32.47	610	34.82		
25150	4200	411	16.62	448	19.53	481	22.43	511	25.40	538	28.25	561	30.71	582	33.03	603	35.53	623	38.03		
26347	4400	427	18.80	463	21.91	495	24.88	525	28.07	551	30.97	575	33.79	596	36.29	617	38.96	636	41.43		
27545	4600	443	21.16	477	24.31	510	27.67	539	30.92	565	34.04	589	37.06	610	39.74	630	42.40	649	45.02		
28742	4800	459	23.71	492	27.03	524	30.48	553	33.95	579	37.28	603	40.52	624	43.38	644	46.23	663	49.02		

CFM	OV	5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP		9" SP			
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10778	1800	<u>521</u>	<u>13.33</u>	545	14.78	568	16.23														
11976	2000	<u>526</u>	<u>14.69</u>	<u>549</u>	<u>16.20</u>	<u>571</u>	<u>17.72</u>	593	19.32	614	20.91	635	22.57								
13174	2200	<u>533</u>	<u>16.23</u>	<u>556</u>	<u>17.89</u>	<u>577</u>	<u>19.45</u>	598	21.10	618	22.73	638	24.45	658	26.24	677	27.99	695	29.69		
14371	2400	<u>541</u>	<u>17.89</u>	<u>563</u>	<u>19.60</u>	<u>584</u>	<u>21.30</u>	<u>604</u>	<u>22.98</u>	<u>624</u>	<u>24.75</u>	<u>643</u>	<u>26.49</u>	<u>662</u>	<u>28.31</u>	<u>681</u>	<u>30.22</u>	<u>699</u>	<u>32.06</u>		
15569	2600	550	19.70	571	21.45	592	23.29	612	25.12	631	26.91	650	28.79	668	30.63	686	32.54	704	34.52		
16766	2800	560	21.66	580	23.45	600	25.33	620	27.31	639	29.24	657	31.12	675	33.09	693	35.14	710	37.13		
17964	3000	570	23.71	590	25.63	610	27.67	629	29.67	647	31.62	665	33.64	683	35.75	701	37.95	717	39.91		
19162	3200	581	25.99	601	28.04	620	30.08	638	32.08	657	34.33	674	36.36	692	38.64	709	40.82	725	42.91		
20359	3400	592	28.41	612	30.59	630	32.59	649	34.88	666	36.95	684	39.29	701	41.56	718	43.91	734	46.15		
21557	3600	604	31.12	623	33.29	641	35.41	659	37.65	677	40.02	694	42.32	711	44.73	727	47.04	743	49.44		
22754	3800	616	33.97	635	36.29	653	38.55	671	40.93	688	43.24	705	45.67	721	48.01	737	50.46	753	53.00		
23952	4000	629	37.15	647	39.44	665	41.85	682	44.19	699	46.63	716	49.18	732	51.64	748	54.21	763	56.67		
25150	4200	642	40.51	660	42.95	677	45.31	694	47.79	711	50.38	727	52.87	743	55.45	759	58.14	774	60.72		
26347	4400	655	44.06	673	46.64	690	49.15	707	51.78	723	54.31	739	56.94	755	59.67	770	62.27	785	64.96		
27545	4600	668	47.81	686	50.54	703	53.19	719	55.74	736	58.65	751	61.19	767	64.08	782	66.82	797	69.65		
28742	4800	681	51.75	699	54.63	716	57.43	732	60.12	748	62.94	764	65.87	779	68.66	794	71.55	808	74.26		
29940	5000	695	56.14	712	58.94	729	61.89	745	64.72	761	67.69	777	70.78	792	73.71	806	76.47	821	79.61		
31138	5200	709	60.76	726	63.73	742	66.57	758	69.55	774	72.66	789	75.62	804	78.70	819	81.89	833	84.89		
32335	5400	723	65.60	739	68.47	756	71.75	772	74.89	787	77.86	803	81.27	817	84.19	832	87.54	846	90.69		
33533	5600	737	70.69	753	73.72	770	77.18	785	80.18	801	83.62	816	86.88	830	89.94	845	93.44	859	96.73		
34730	5800	751	76.01	767	79.21	783	82.55	799	86.03	814	89.31	829	92.73	843	95.93	858	99.59	872	103.03		
35928	6000	765	81.57	781	84.95	797	88.47	813	92.13	828	95.59	843	99.17	857	102.53	871	106.00	885	109.59		

CFM	OV	10" SP		11" SP		12" SP		13" SP		14" SP		15" SP		16" SP		17" SP		18" SP			
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15569	2600	738	38.43	772	42.61	804	46.71	835	50.87												
16766	2800	<u>744</u>	<u>41.31</u>	<u>776</u>	<u>45.45</u>	<u>808</u>	<u>49.86</u>	838	54.15	868	58.66	897	63.18								
17964	3000	<u>750</u>	<u>44.21</u>	<u>782</u>	<u>48.63</u>	<u>813</u>	<u>53.14</u>	<u>843</u>	<u>57.72</u>	<u>872</u>	<u>62.34</u>	900	66.96	928	71.80	956	76.83				
19162	3200	<u>758</u>	<u>47.50</u>	<u>789</u>	<u>52.02</u>	<u>819</u>	<u>56.62</u>	<u>848</u>	<u>61.27</u>	<u>877</u>	<u>66.17</u>	<u>904</u>	<u>70.85</u>	<u>932</u>	<u>76.00</u>	959	81.13	985	86.19		
20359	3400	766	50.85	<u>796</u>	<u>55.44</u>	<u>826</u>	<u>60.32</u>	<u>855</u>	<u>65.25</u>	<u>883</u>	<u>70.22</u>	<u>910</u>	<u>75.18</u>	<u>937</u>	<u>80.38</u>	<u>963</u>	<u>85.54</u>	<u>988</u>	<u>90.64</u>		
21557	3600	774	54.25	805	59.35	834	64.30	<u>862</u>	<u>69.28</u>	<u>890</u>	<u>74.53</u>	<u>916</u>	<u>79.52</u>	<u>942</u>	<u>84.74</u>	<u>968</u>	<u>90.18</u>	<u>993</u>	<u>95.56</u>		
22754	3800	784	58.12	813	63.11	842	68.35	870	73.61	<u>897</u>	<u>78.88</u>	<u>923</u>	<u>84.14</u>	<u>949</u>	<u>89.64</u>	<u>974</u>	<u>95.09</u>	<u>999</u>	<u>100.76</u>		
23952	4000	793	61.85	822	67.13	851	72.70	878	78.01	905	83.57	931	89.10	<u>957</u>	<u>94.89</u>	<u>981</u>	<u>100.32</u>				
25150	4200	804	66.17	832	71.48	860	77.10	887	82.73	914	88.62	939	94.15	964	99.91	<u>989</u>	<u>105.92</u>				
26347	4400	814	70.39	843	76.22	870	81.86	897	87.79	923	93.71	948	99.57	973	105.64	997	111.61				
27545	4600	825	75.06	853	80.87	880	86.75	907	92.97	932	98.88	957	105.04	981	111.11						
28742	4800	837	80.23	864	85.98	891	92.12	917	98.29	942	104.47	967	110.92								
29940	5000	848	85.30	876	91.63	902	97.69	928	104.12	953	110.55	977	116.94								
31138	5200	861	91.17	887	97.18	913	103.5	939	110.17	963	116.49	987	123.12								
32335	5400	873	96.95	899	103.24	925	109.86	950	116.45	974	122.99	998	129.88								
33533	5600	886	103.29	912	109.88	937	116.45	961	122.95	986	130.15										

Arrangement 1 & 9



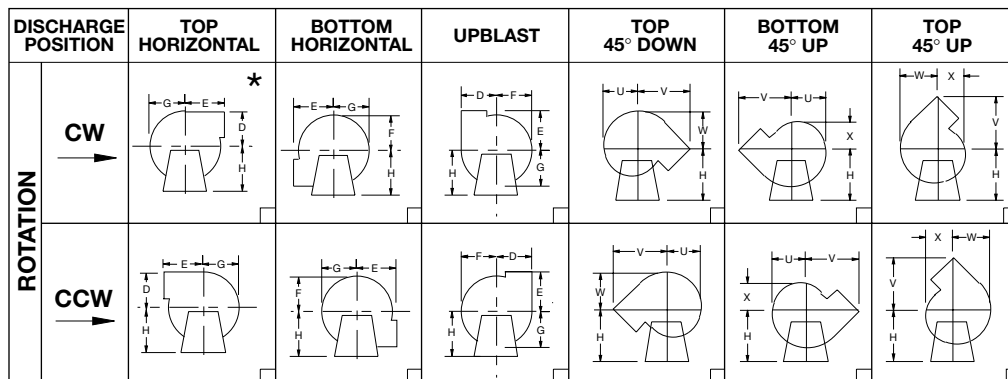
SIZE	A	B	C	D	E	F	G	H	J	K	L	M
15	9.00	7.75	8.88	14.56	11.81	10.94	12.00	18.75	16.50	5.44	15.00	6.44
19	11.00	9.13	10.63	17.31	14.13	13.50	14.50	21.75	18.88	6.13	20.00	7.13
22	13.00	10.75	12.56	20.13	16.25	15.75	17.00	22.25	22.25	6.94	20.00	7.94
26	15.00	12.50	14.44	22.94	18.38	18.25	19.69	24.25	25.75	7.88	22.25	8.88
29	17.00	14.13	16.31	25.88	20.44	20.63	22.31	27.00	29.00	8.94	21.75	9.94
33	19.00	15.75	18.13	29.13	22.50	21.63	24.88	30.50	32.50	9.75	24.50	10.75
36	21.00	17.44	20.06	31.94	24.63	25.06	27.44	33.50	35.25	10.72	24.50	11.72
40	23.00	19.13	21.94	34.75	26.81	26.94	30.00	36.00	39.00	11.56	26.25	12.56
45	26.00	21.56	24.81	39.00	29.88	29.81	33.88	40.75	46.25	13.41	25.25	14.41
50	29.00	24.13	27.69	43.38	33.13	32.69	38.00	45.00	47.50	14.69	30.75	15.69
57	33.00	27.38	31.50	49.06	37.38	36.50	39.13	50.75	53.50	16.31	30.75	17.31

SIZE	N	P	Q	R	S	T	U	V	W	X	MAX. MTR	SHAFT
15	8.94	27.00	0.56	3.94	12.38	11.25	11.47	18.66	12.53	10.38	215T	1.44
19	9.63	33.19	0.56	4.94	14.13	12.63	14.00	22.22	15.16	12.69	256T	1.69
22	10.31	34.00	0.56	5.81	16.06	14.25	16.38	25.72	17.81	14.88	256T	1.69
26	10.94	38.00	0.56	6.75	17.94	16.00	18.97	29.22	20.56	17.19	284T	1.94
29	11.69	38.81	0.56	7.81	19.81	17.63	21.47	32.75	23.34	19.41	286T	1.94
33	13.88	43.13	0.69	8.75	22.63	19.25	23.91	36.50	25.88	21.59	324T	2.19
36	14.53	44.09	0.69	9.63	24.56	22.44	26.34	40.00	28.56	23.81	326T	2.44
40	15.38	47.44	0.69	10.56	26.44	24.13	28.88	43.53	31.25	26.13	365T	2.44
45	17.03	48.91	0.81	11.94	29.31	26.56	32.47	48.72	35.31	29.31	365T	2.69
50	17.56	56.94	0.81	13.44	32.19	29.13	36.41	54.09	39.56	32.81	405T	3.19
57	18.88	58.56	0.81	15.31	36.00	32.38	39.19	61.13	42.97	37.16	405T	3.44

Dimensions are not to be used for construction.

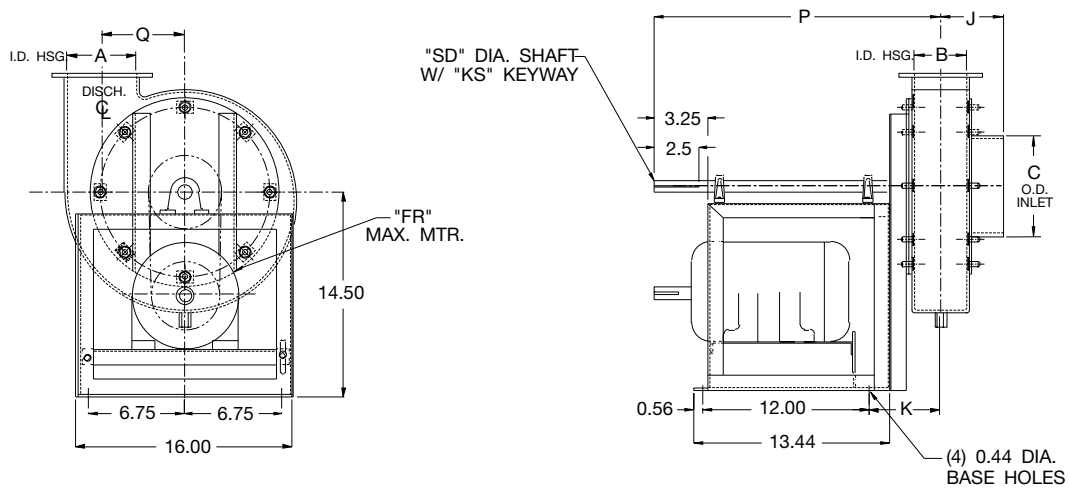
R-32030-00B

Fan Discharge Options



*STANDARD POSITION & ROTATION

Arrangement 10



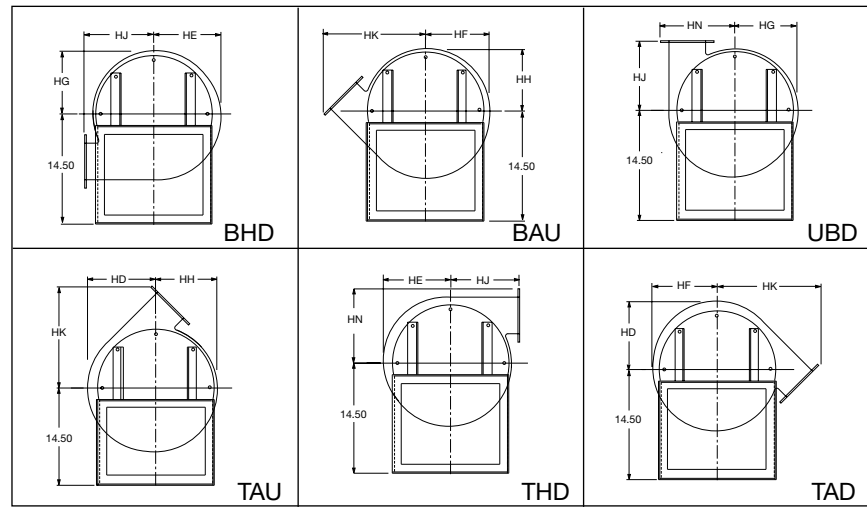
NOTE: Arrangement 10 available for sizes 15 through 36. Contact factory for dimensional data.

SIZE	A	B	C	FR	HD	HE	HF	HG	HH
10	4.00	3.38	6.38	56	8.25	8.25	8.25	7.94	7.44
12	5.00	3.88	7.38	145T	9.50	9.25	9.50	9.06	8.69
13	7.06	5.50	8.38	145T	11.78	11.78	11.75	11.31	10.44

SIZE	HJ	HK	HN	J	K	KS	P	Q	SD
10	8.97	13.13	9.56	4.06	4.63	.25 x .13	19.06	6.06	1.00
12	10.28	15.25	11.25	4.31	4.88	.25 x .13	19.31	7.25	1.187
13	11.84	17.38	12.68	4.81	5.69	.25 x .13	20.13	7.31	1.187

Dimensions are not to be used for construction. R-32033-00A

Fan Discharge Options



Model RBF

Fans shall be of the Radial Blade Fiberglass (Model RBF) Centrifugal type as manufactured by Aerovent, Minneapolis, Minnesota, and shall be of the size and capacity as indicated in the fan schedule. Fans shall be tested and certified in accordance with ANSI/ASHRAE 51 and ANSI/AMCA 210 test codes and guaranteed by the manufacturer to deliver at the rated published performance levels. In addition, each unit shall be factory run tested prior to shipment.

WHEEL — The model RBF radial wheel shall be constructed using glass cloth impregnated with vinyl ester resin. Wheels shall be statically and dynamically balanced.

HOUSING — The housing shall be of solid construction utilizing corrosion resistant fiberglass reinforced resin mounted on an all welded, heavy-gauge steel base with Arrangement 1, 9 or 10. Sizes 10, 12 and 13 in Arrangement 10 only. All airstream hardware shall be of FRP encapsulated 316 stainless steel for maximum corrosion resistance.

BEARINGS — Bearings shall be of a regreasable pillow block type and shall have a minimum L-10 life as defined by AFBMA of at least 40,000 hours (200,000 hours average life).

DRIVE — The belts and sheaves furnished by the manufacturer shall be selected to provide additional allowances of 1.3 to 2 times the normal satisfactory capacity.

MOTOR — Fan motors shall be foot mounted NEMA Design B, heavy duty industrial, continuous duty, ball bearing, variable torque type suitable for operation on voltage, phase and hertz, as listed in the fan schedule. Motor bearings shall have a minimum L-10 life as defined by AFBMA of at least 40,000 hours (200,000 hours average life).

BALANCING — The wheel assembly shall be statically and dynamically balanced in accordance with ANSI/AMCA 204-96 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3. In addition, belt driven fan propellers shall be balanced on the fan shaft after final assembly in the fan casing, in the manufacturing facility, to the following peak velocity values, filter-in, at the fan test speed:

Fan Application Category	Rigidly Mounted (in./s)	Flexibly Mounted (in./s)
BV-3	0.15	0.20

FINISH — All steel parts are finished with light gray epoxy enamel paint. All fiberglass parts are coated inside and outside with resin (with UV inhibitor), approximately 10 mils in thickness, to seal the surface and provide a smooth, shiny finish. Optional resins and finishes include:

- Synthetic Surface Veil
- Fire-Retardant Resin

SOUND POWER LEVELS — The sound power level of the fan(s) shall not exceed:

Octave Band-CPS (Sound Power 10⁻¹²)

63	125	250	500	1000	2000	4000	8000

ACCESSORIES — The fan(s) shall be furnished complete with:

- Bolted Cleanout Door
- Weather Cover (Arr. 10, Sizes 10" – 36" only)
- OSHA Type Belt Guard (Arr. 1 & 9, Sizes 15" – 57")
- Shaft & Bearing Guard
- Flanged Inlet (Drilling Standard)
- Unitary Base (Arr. 1)
- Vibration Isolation (RIS/Spring)
- Housing Drain
- Spark Resistant Construction



©2012 Aerovent, Twin City Fan Companies, Ltd.

Catalog illustrations cover the general appearance of Aerovent products at the time of publication and we reserve the right to make changes in design and construction at any time.

**PROPELLER FANS | TUBEAXIAL & VANEAXIAL FANS | CENTRIFUGAL FANS & BLOWERS | ROOF VENTILATORS
INDUSTRIAL AIR HANDLERS | AIR MAKE-UP | FIBERGLASS FANS | CUSTOM FANS**



WWW.AEROVENT.COM



AEROVENT
A Twin City Fan Company

5959 Trenton Lane N | Minneapolis, MN 55442 | Phone: 763-551-7500 | Fax: 763-551-7501