



FA Series Fans

Performance Charts | FAPC-1



How to Use Tables

1. Ratings are based on air of standard density of .075 lbs. Per cu. Ft. If altitude or temperature is involved, see below for correction method.
2. Compare selected RPM to maximum safe RPM listed in Chart I corrected for temperature with factor from chart II if heat is involved.

OPERATING LIMITS

Chart I gives maximum safe operating speeds for AcostaFoil Fans at 70 degrees F. As the temperature of the air handled is increased, the safe operating speed of the air handled is increased, the safe operating speed is reduced as indicated in Chart II.

CALCULATING FANS AT ELEVATED TEMPERATURES

When a fan operates "cold," it handles standard air at 70 degrees F., 29.92 barometric pressure (.075 pounds per cubic foot). When a fan handles air at other than standard temperature and altitude, a density correction factor must be considered. When a fan operates "hot," it handles air at a higher temperature than 70 degrees F., and corrections must be made for pressure and brake horsepower. If speed, capacity and barometric pressure are kept constant static pressure and horsepower will vary inversely as the absolute temperature. For convenience in calculating fans for "hot" work, Chart III gives factors for correcting pressure and horsepower.

CALCULATING FANS AT ALTITUDES OTHER THAN SEA LEVEL (29.92)

If speed, capacity and temperature are kept constant, static pressure and horsepower will vary directly as the density of the air. The method for correcting for altitude is the same as for temperature except using the factors in Chart IV instead of Chart III.

Note: Unless otherwise specified static pressure is given in inches of water column.

CHART I
MAXIMUM SAFE RPM AT 70°

FA18	3790	FA40	1655
FA22	3240	FA44	1495
FA24	2940	FA49	1395
FA30	2275	FA54	1230
FA33	2080	FA60	1110
FA36	1825	FA66	1010

CHART II
CORRECTION FACTOR FOR MAX. SAFE SPEED AT VARIOUS TEMPERATURES

TEMP	STEEL	ALUM.	STAIN-LESS
-50	1.00	1.00	.75
70	1.00	1.00	.75
200	.97	.98	.67
300	.95	—	.62
400	.94	—	.59
500	.93	—	.56
600	.92	—	.55

CHART III
CORRECTION FACTOR FOR TEMPERATURE

TEMP	FACTOR
-25	.82
0	.87
20	.91
60	.98
80	1.02
120	1.09
160	1.17
200	1.25
300	1.43
350	1.53
400	1.62
450	1.72
500	1.81

CHART IV
CORRECTION FACTOR FOR ALTITUDE

ALT.	FACTOR
0	1.00
500	1.02
1000	1.04
2000	1.10
3000	1.12
4000	1.16
5000	1.20
6000	1.25
7000	1.30
8000	1.35
9000	1.40
10000	1.45

FA SERIES FANS

FA-18

Inlet diameter: 20 3/4" Wheel diameter: 18 1/4" Wheel Circumference: 4.77" Fan Outlet Area: 1.92

CFM	OV	4" SP		4.5" SP		5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3455	1800	1941	2.9	2038	3.3	2136	3.8	2229	4.2	2322	4.7	2409	5.1	2498	5.6	2582	6.1	2662	6.5	2742	7.0
3647	1900	1961	3.1	2056	3.5	2148	3.9	2241	4.4	2331	4.8	2416	5.3	2503	5.8	2588	6.3	2667	6.7	2746	7.3
3839	2000	1987	3.2	2077	3.6	2167	4.1	2254	4.5	2342	5.0	2428	5.5	2513	6.0	2593	6.5	2674	7.0	2752	7.5
4031	2100	2015	3.4	2103	3.8	2189	4.3	2274	4.7	2358	5.2	2441	5.7	2521	6.2	2603	6.7	2683	7.2	2759	7.7
4223	2200	2046	3.5	2129	4.0	2211	4.4	2295	4.9	2377	5.4	2456	5.9	2534	6.4	2615	6.9	2693	7.4	2769	8.0
4415	2300	2082	3.7	2159	4.2	2239	4.6	2319	5.1	2397	5.6	2474	6.1	2552	6.6	2627	7.1	2705	7.7	2779	8.2
4607	2400	2117	3.9	2196	4.4	2267	4.8	2344	5.3	2422	5.8	2496	6.3	2570	6.8	2644	7.4	2717	7.9	2791	8.5
4799	2500	2155	4.1	2228	4.6	2301	5.0	2375	5.5	2449	6.0	2521	6.6	2594	7.1	2665	7.6	2734	8.2	2808	8.8
4991	2600	2197	4.3	2268	4.8	2339	5.3	2406	5.8	2477	6.3	2547	6.8	2617	7.3	2685	7.9	2755	8.4	2824	9.0
5375	2800	2286	4.8	2350	5.3	2413	5.8	2480	6.3	2542	6.8	2607	7.3	2671	7.9	2738	8.4	2804	9.0	2867	9.6
5759	3000	2376	5.3	2437	5.8	2497	6.3	2556	6.8	2618	7.4	2679	7.9	2738	8.5	2801	9.1	2861	9.7	2919	10.2
6143	3200	2474	5.9	2528	6.4	2585	6.9	2641	7.4	2700	8.0	2753	8.5	2813	9.2	2867	9.7	2927	10.3	2981	10.9
6527	3400	2572	6.5	2627	7.1	2678	7.6	2731	8.1	2787	8.7	2837	9.3	2893	9.9	2943	10.4	2999	11.1	3049	11.6
6911	3600	2674	7.2	2726	7.8	2775	8.3	2825	8.9	2878	9.5	2925	10.0	2978	10.6	3028	11.3	3077	11.9	3127	12.5
7295	3800	2780	8.0	2829	8.5	2875	9.1	2923	9.7	2972	10.3	3020	10.9	3066	11.5	3113	12.1	3162	12.8	3209	13.4
7679	4000	2884	8.8	2932	9.4	2976	9.9	3020	10.5	3067	11.1	3115	11.8	3158	12.4	3204	13.0	3249	13.7	3293	14.4

CFM	OV	9" SP		9.5" SP		10" SP		10.5" SP		11" SP		11.5" SP		12" SP		12.5" SP		13" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4223	2200	2841	8.5	2913	9.1	2985	9.6	3056	10.2	3125	10.7	3193	11.3	3263	12.0	3326	12.5	3392	13.2	3519	14.4
4415	2300	2851	8.8	2923	9.4	2994	9.9	3065	10.5	3134	11.1	3198	11.6	3264	12.3	3333	12.9	3394	13.5	3519	14.8
4607	2400	2862	9.0	2934	9.6	3004	10.2	3071	10.8	3140	11.4	3204	12.0	3271	12.6	3336	13.2	3398	13.8	3525	15.2
4799	2500	2875	9.3	2945	9.9	3012	10.4	3082	11.1	3148	11.7	3212	12.3	3279	12.9	3344	13.6	3407	14.2	3527	15.5
4991	2600	2891	9.6	2958	10.1	3028	10.8	3094	11.4	3160	12.0	3224	12.7	3287	13.3	3349	13.9	3413	14.6	3534	15.9
5375	2800	2933	10.2	2997	10.8	3058	11.4	3124	12.0	3186	12.7	3247	13.3	3311	14.0	3369	14.6	3430	15.3	3650	16.7
5759	3000	2980	10.8	3043	11.5	3103	12.1	3160	12.7	3219	13.4	3280	14.1	3338	14.7	3397	15.4	3456	16.1	3571	17.5
6143	3200	3037	11.5	3094	12.2	3155	12.8	3206	13.4	3266	14.2	3321	14.8	3379	15.5	3432	16.2	3488	16.9	3597	18.4
6527	3400	3105	12.3	3159	13.0	3209	13.6	3267	14.3	3321	15.0	3372	15.7	3424	16.4	3478	17.1	3534	17.9	3639	19.3
6911	3600	3179	13.2	3229	13.8	3280	14.5	3328	15.2	3378	15.9	3429	16.6	3482	17.3	3531	18.0	3582	18.8	3683	20.3
7295	3800	3257	14.1	3303	14.7	3350	15.4	3399	16.1	3449	16.9	3496	17.6	3544	18.3	3589	19.0	3640	19.8	3732	21.3
7679	4000	3341	15.1	3383	15.7	3431	16.5	3475	17.2	3521	17.9	3565	18.6	3613	19.4	3658	20.2	3701	20.9		
8063	4200	3430	16.2	3470	16.8	3517	17.6	3558	18.3	3600	19.0	3641	19.8	3686	20.5	3727	21.3	3774	22.1		
8447	4400	3517	17.3	3559	18.0	3602	18.8	3640	19.4	3685	20.3	3724	21.0	3765	21.8						
8831	4600	3611	18.5	3650	19.2	3689	20.0	3729	20.7	3770	21.5										
9215	4800	3709	19.8	3749	20.6	3785	21.3														

FA SERIES FANS

FA-24 Inlet diameter: 27 5/8" Wheel diameter: 24 1/2" Wheel Circumference: 6.40" Fan Outlet Area: 3.45 sq. ft.

CFM	OV	4" SP		4.5" SP		5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6209	1800	1488	5.14	1562	5.85	1633	6.56	1703	7.31	1772	8.09	1842	8.91	1908	9.72	1972	10.5	2034	11.4	2094	12.2
6554	1900	1507	5.41	1577	6.11	1646	6.85	1714	7.61	1782	8.41	1849	9.23	1913	10.0	1976	10.9	2037	11.7	2099	12.6
6899	2000	1529	5.69	1596	6.41	1662	7.15	1729	7.94	1794	8.75	1858	9.56	1920	10.4	1982	11.2	2042	12.1	2102	13.0
7244	2100	1552	5.97	1616	6.71	1680	7.47	1743	8.26	1808	9.09	1870	9.93	1929	10.7	1989	11.6	2048	12.5	2108	13.4
7589	2200	1578	6.28	1639	7.03	1700	7.81	1763	8.63	1822	9.43	1883	10.2	1941	11.1	2000	12.0	2058	12.9	2114	13.8
7934	2300	1604	6.61	1666	7.39	1725	8.19	1782	8.99	1840	9.82	1898	10.6	1956	11.5	2012	12.4	2069	13.4	2125	14.3
8279	2400	1634	6.94	1693	7.76	1747	8.53	1804	9.37	1862	10.2	1917	11.1	1973	12.0	2027	12.9	2083	13.8	2136	14.8
8624	2500	1666	7.32	1720	8.12	1776	8.95	1831	9.82	1883	10.6	1938	11.5	1992	12.4	2044	13.3	2098	14.3	2150	15.3
8969	2600	1697	7.69	1750	8.51	1804	9.37	1854	10.2	1907	11.1	1960	12.0	2012	12.9	2063	13.8	2117	14.8	2165	15.8
9659	2800	1767	8.54	1815	9.37	1865	10.2	1913	11.1	1963	12.0	2012	13.0	2060	13.9	2107	14.9	2156	15.9	2204	16.9
10349	3000	1838	9.42	1883	10.3	1929	11.2	1976	12.1	2020	13.1	2066	14.0	2111	15.0	2158	16.0	2203	17.1	2247	18.1
11039	3200	1914	10.4	1956	11.3	1999	12.2	2041	13.2	2086	14.2	2129	15.2	2171	16.2	2215	17.3	2257	18.3	2298	19.4
11729	3400	1992	11.5	2031	12.4	2073	13.4	2113	14.4	2152	15.4	2193	16.5	2235	17.6	2273	18.6	2313	19.6	2353	20.8
12419	3600	2070	12.6	2110	13.7	2147	14.7	2185	15.7	2225	16.8	2264	17.9	2301	18.9	2339	20.0	2376	21.1	2414	22.3
13109	3800	2152	13.9	2190	15.0	2227	16.1	2263	17.1	2298	18.2	2334	19.3	2372	20.5	2408	21.6	2442	22.7	2480	24.0
13799	4000	2234	15.3	2270	16.4	2303	17.4	2342	18.7	2373	19.7	2409	20.9	2442	22.0	2480	23.3	2515	24.5	2547	25.6

CFM	OV	9" SP		9.5" SP		10" SP		10.5" SP		11" SP		11.5" SP		12" SP		12.5" SP		13" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7589	2200	2170	14.8	2227	15.8	2283	16.8	2335	17.8	2386	18.8	2440	19.8	2492	20.9	2542	22.0	2591	23.0	2689	25.3
7934	2300	2180	15.3	2233	16.2	2289	17.3	2341	18.3	2392	19.3	2443	20.3	2495	21.5	2542	22.5	2591	23.6	2687	25.8
8279	2400	2191	15.8	2244	16.8	2296	17.8	2348	18.8	2400	19.9	2450	20.9	2499	22.0	2547	23.1	2597	24.2	2690	26.5
8624	2500	2203	16.3	2255	17.3	2305	18.3	2356	19.4	2405	20.4	2455	21.5	2505	22.6	2553	23.7	2599	24.8	2694	27.1
8969	2600	2217	16.8	2267	17.8	2316	18.8	2365	19.9	2417	21.0	2464	22.1	2511	23.2	2559	24.3	2607	25.5	2699	27.8
9659	2800	2253	18.0	2300	19.0	2345	20.0	2392	21.1	2439	22.2	2487	23.4	2531	24.4	2578	25.6	2622	26.8	2714	29.2
10349	3000	2293	19.1	2340	20.3	2381	21.3	2427	22.4	2471	23.5	2517	24.7	2560	25.9	2604	27.1	2644	28.2	2733	30.7
11039	3200	2339	20.4	2383	21.6	2424	22.7	2467	23.8	2511	25.0	2553	26.2	2592	27.3	2636	28.6	2677	29.8	2759	32.3
11729	3400	2396	21.9	2436	23.1	2474	24.2	2514	25.3	2554	26.5	2592	27.7	2636	29.0	2672	30.2	2714	31.5	2792	34.0
12419	3600	2453	23.5	2490	24.6	2529	25.8	2565	27.0	2603	28.2	2641	29.4	2681	30.7	2718	32.0	2756	33.3	2828	35.8
13109	3800	2514	25.1	2552	26.3	2587	27.5	2624	28.8	2659	30.0	2694	31.2	2731	32.5	2765	33.8	2803	35.2	2872	37.7
13799	4000	2580	26.8	2615	28.1	2648	29.3	2685	30.7	2717	31.9	2753	33.2	2786	34.5	2820	35.8	2856	37.2	2922	39.9
14489	4200	2652	28.8	2681	30.0	2717	31.4	2748	32.6	2780	33.9	2813	35.3	2847	36.6	2877	37.9	2912	39.4		
15179	4400	2721	30.8	2754	32.1	2782	33.3	2815	34.7	2844	36.0	2879	37.5	2910	38.9						
15869	4600	2794	32.9	2824	34.2	2853	35.5	2884	36.9	2915	38.4										
16559	4800	2872	35.2	2898	36.5	2929	38.0														

FA SERIES FANS

FA-30

Inlet diameter: 33 5/8" Wheel diameter: 30" Wheel Circumference: 7.85" Fan Outlet Area: 5.17 sq. ft.

CFM	OV	4" SP		4.5" SP		5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9305	1800	1172	7.41	1234	8.43	1295	9.51	1355	10.6	1413	11.7	1469	12.9	1522	14.1	1576	15.3	1628	16.6	1677	17.8
9822	1900	1184	7.76	1242	8.79	1302	9.91	1359	11.0	1416	12.1	1470	13.3	1524	14.6	1577	15.8	1628	17.1	1677	18.4
10339	2000	1197	8.14	1253	9.18	1311	10.3	1365	11.4	1420	12.6	1475	13.8	1528	15.1	1578	16.3	1628	17.6	1679	19.0
10856	2100	1212	8.53	1267	9.62	1320	10.7	1375	11.9	1427	13.0	1479	14.3	1531	15.5	1582	16.9	1631	18.2	1679	19.5
11373	2200	1230	8.96	1281	10.0	1333	11.2	1386	12.3	1437	13.6	1486	14.8	1537	16.1	1587	17.4	1636	18.8	1683	20.1
11890	2300	1248	9.41	1298	10.5	1348	11.6	1397	12.8	1447	14.1	1495	15.3	1544	16.6	1593	18.0	1639	19.3	1686	20.7
12407	2400	1270	9.92	1315	11.0	1364	12.2	1411	13.3	1459	14.6	1507	15.9	1553	17.2	1600	18.6	1646	19.9	1692	21.4
12924	2500	1292	10.4	1336	11.5	1383	12.7	1427	13.9	1473	15.2	1519	16.5	1565	17.8	1610	19.2	1655	20.6	1699	22.0
13441	2600	1313	10.9	1359	12.1	1402	13.3	1445	14.5	1488	15.8	1533	17.1	1577	18.5	1621	19.9	1665	21.3	1708	22.8
14475	2800	1365	12.1	1404	13.3	1445	14.6	1485	15.8	1526	17.1	1566	18.5	1608	19.9	1649	21.3	1689	22.8	1729	24.2
15509	3000	1417	13.4	1455	14.7	1491	15.9	1530	17.3	1568	18.7	1606	20.0	1642	21.4	1680	22.8	1720	24.4	1756	25.8
16543	3200	1473	14.8	1509	16.2	1544	17.5	1579	18.9	1613	20.2	1648	21.6	1685	23.2	1718	24.5	1756	26.1	1792	27.7
17577	3400	1532	16.4	1564	17.8	1598	19.2	1629	20.5	1664	22.0	1695	23.4	1730	25.0	1762	26.4	1797	28.1	1830	29.7
18611	3600	1591	18.1	1623	19.6	1654	21.0	1686	22.5	1717	24.0	1746	25.4	1777	26.9	1809	28.5	1840	30.1	1871	31.7
19645	3800	1652	19.9	1682	21.5	1712	23.0	1740	24.4	1770	26.0	1801	27.6	1830	29.2	1860	30.8	1889	32.4	1919	34.1
20679	4000	1715	22.0	1744	23.6	1771	25.0	1800	26.7	1829	28.3	1856	29.9	1884	31.5	1913	33.2	1940	34.8	1968	36.6

CFM	OV	9" SP		9.5" SP		10" SP		10.5" SP		11" SP		11.5" SP		12" SP		12.5" SP		13" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11373	2200	1730	21.6	1775	22.9	1822	24.5	1866	25.9	1908	27.4	1950	28.8	1993	30.4	2035	32.0	2074	33.5	2151	36.6
11890	2300	1733	22.2	1777	23.6	1821	25.1	1868	26.6	1911	28.2	1953	29.7	1993	31.2	2032	32.7	2073	34.3	2152	37.6
12407	2400	1736	22.8	1783	24.3	1825	25.8	1868	27.3	1911	28.9	1954	30.5	1995	32.0	2035	33.6	2076	35.3	2154	38.6
12924	2500	1743	23.5	1787	25.0	1829	26.5	1878	28.1	1913	29.6	1956	31.2	1997	32.9	2035	34.4	2077	36.2	2153	39.5
13441	2600	1750	24.2	1792	25.7	1836	27.3	1878	28.9	1919	30.5	1959	32.1	1998	33.7	2039	35.4	2079	37.1	2154	40.4
14475	2800	1769	25.7	1811	27.3	1851	28.9	1891	30.5	1930	32.1	1968	33.7	2008	35.4	2047	37.2	2085	38.9	2160	42.4
15509	3000	1796	27.4	1834	29.0	1871	30.6	1910	32.3	1947	33.9	1984	35.6	2020	37.3	2058	39.0	2095	40.8	2167	44.4
16543	3200	1826	29.2	1861	30.8	1898	32.5	1933	34.1	1969	35.8	2003	37.5	2042	39.4	2074	41.0	2111	42.9	2181	46.6
17577	3400	1862	31.2	1895	32.8	1930	34.5	1965	36.3	1999	38.0	2030	39.6	2065	41.5	2099	43.3	2133	45.2	2197	48.8
18611	3600	1904	33.4	1935	35.0	1967	36.8	1997	38.4	2031	40.3	2063	42.1	2093	43.8	2127	45.8	2158	47.6	2221	51.4
19645	3800	1947	35.7	1979	37.5	2006	39.1	2037	40.9	2066	42.6	2099	44.6	2126	46.3	2158	48.3	2187	50.1	2248	54.0
20679	4000	1995	38.2	2025	40.1	2053	41.8	2079	43.5	2109	45.4	2137	47.2	2165	49.1	2194	51.1	2221	52.9		
21713	4200	2046	40.9	2074	42.8	2100	44.6	2127	46.5	2153	48.2	2181	50.2	2208	52.1	2235	54.1	2260	55.9		
22747	4400	2099	43.9	2126	45.8	2150	47.6	2176	49.5	2202	51.4	2226	53.2	2253	55.3						
23781	4600	2154	46.9	2178	48.8	2204	50.8	2225	52.6	2252	54.7										
24815	4800	2210	50.2	2233	52.2	2257	54.2														

FA SERIES FANS

FA-36

Inlet diameter: 41" Wheel diameter: 36 1/2" Wheel Circumference: 9.55" Fan Outlet Area: 7.66 sq. ft.

CFM	OV	4" SP		4.5" SP		5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13787	1800	962	10.6	1013	12.1	1052	13.6	1112	15.2	1158	16.9	1205	18.6	1251	20.3	1294	22.0	1336	23.9	1379	25.7
14553	1900	970	11.1	1020	12.6	1067	14.2	1114	15.8	1162	17.5	1207	19.2	1250	20.9	1294	22.8	1337	24.6	1379	26.6
15319	2000	981	11.6	1029	13.2	1075	14.8	1121	16.4	1166	18.1	1209	19.8	1253	21.7	1296	23.5	1338	25.4	1378	27.3
16085	2100	995	12.2	1039	13.8	1083	15.4	1127	17.0	1171	18.8	1215	20.6	1256	22.4	1297	24.2	1339	26.2	1378	28.1
16851	2200	1009	12.8	1051	14.4	1094	16.0	1136	17.7	1178	19.4	1219	21.3	1261	23.1	1301	25.0	1342	27.0	1381	29.0
17617	2300	1024	13.5	1065	15.1	1105	16.7	1146	18.4	1186	20.2	1226	22.0	1267	23.9	1305	25.8	1344	27.8	1383	29.8
18383	2400	1041	14.2	1080	15.8	1119	17.5	1158	19.2	1197	21.0	1235	22.8	1274	24.7	1312	26.7	1351	28.7	1388	30.7
19149	2500	1058	14.9	1096	16.6	1133	18.3	1172	20.1	1209	21.9	1246	23.7	1283	25.6	1320	27.6	1357	29.6	1394	31.7
19915	2600	1078	15.7	1114	17.4	1150	19.1	1185	20.9	1221	22.7	1258	24.6	1294	26.6	1329	28.5	1364	30.5	1400	32.6
21447	2800	1119	17.4	1151	19.2	1184	20.9	1218	22.8	1252	24.7	1285	26.6	1319	28.6	1351	30.6	1386	32.7	1418	34.8
22979	3000	1162	19.3	1192	21.1	1223	22.9	1254	24.8	1286	26.8	1318	28.8	1348	30.8	1380	32.9	1410	35.0	1442	37.2
24511	3200	1206	21.3	1235	23.2	1266	25.2	1293	27.0	1324	29.2	1352	31.1	1381	33.2	1411	35.4	1440	37.5	1470	39.8
26043	3400	1253	23.6	1282	25.6	1309	27.6	1336	29.5	1363	31.6	1390	33.7	1418	35.9	1447	38.2	1474	40.4	1500	42.5
27575	3600	1301	25.9	1327	28.0	1354	30.1	1380	32.2	1406	34.4	1432	36.6	1459	38.9	1484	41.1	1510	43.4	1535	45.6
29107	3800	1350	28.5	1375	30.7	1401	33.0	1427	35.2	1451	37.4	1475	39.6	1499	41.8	1525	44.3	1548	46.5	1574	49.0
30639	4000	1400	31.3	1425	33.6	1448	35.8	1473	38.2	1496	40.5	1520	42.9	1542	45.2	1566	47.6	1590	50.1	1612	52.4

CFM	OV	9" SP		9.5" SP		10" SP		10.5" SP		11" SP		11.5" SP		12" SP		12.5" SP		13" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16851	2200	1419	31.0	1458	33.1	1495	35.1	1530	37.2	1568	39.5	1602	41.6	1637	43.8	1671	46.0	1706	48.4	1770	52.9
17617	2300	1421	31.8	1460	34.0	1497	36.2	1533	38.4	1569	40.5	1603	42.7	1636	44.9	1671	47.3	1704	49.5	1770	54.4
18383	2400	1426	32.8	1461	34.9	1498	37.1	1534	39.4	1568	41.5	1603	43.8	1637	46.1	1672	48.5	1703	50.7	1769	55.6
19149	2500	1429	33.8	1465	35.9	1502	38.2	1536	40.4	1570	42.6	1606	45.0	1638	47.2	1671	49.6	1703	52.0	1768	56.9
19915	2600	1436	34.8	1471	37.0	1505	39.1	1539	41.4	1574	43.8	1607	46.1	1640	48.4	1672	50.8	1705	53.2	1769	58.2
21447	2800	1451	36.9	1485	39.2	1518	41.5	1549	43.7	1583	46.1	1615	48.5	1647	50.9	1678	53.3	1710	55.8	1772	61.0
22979	3000	1473	39.4	1505	41.7	1534	43.9	1565	46.2	1597	48.7	1627	51.1	1658	53.6	1688	56.1	1717	58.5	1779	63.9
24511	3200	1499	42.0	1528	44.4	1557	46.6	1586	49.0	1615	51.5	1645	54.0	1673	56.4	1703	59.0	1731	61.6	1787	66.8
26043	3400	1530	45.0	1555	47.1	1584	49.6	1610	52.0	1638	54.5	1667	57.1	1694	59.6	1722	62.3	1748	64.8	1804	70.3
27575	3600	1563	48.1	1587	50.3	1614	52.9	1639	55.3	1665	57.8	1692	60.5	1717	62.9	1742	65.5	1769	68.2	1820	73.6
29107	3800	1598	51.4	1623	53.9	1647	56.3	1671	58.8	1695	61.3	1721	64.0	1747	66.8	1771	69.4	1795	72.1		
30639	4000	1636	54.9	1659	57.5	1684	60.2	1707	62.7	1730	65.3	1754	68.0	1776	70.6	1801	73.5	1824	76.2		
32171	4200	1677	58.8	1700	61.5	1723	64.2	1745	66.8	1767	69.5	1790	72.3	1810	74.8						
33703	4400	1719	62.9	1741	65.7	1763	68.5	1784	71.1	1805	73.9										
35235	4600	1765	67.5	1786	70.3	1805	72.9	1825	75.6												
36767	4800	1809	72.0																		

FA SERIES FANS

FA-44

Inlet diameter: 49 1/2" Wheel diameter: 44 1/2" Wheel Circumference: 11.64" Fan Outlet Area: 11.39 sq. ft.

CFM	OV	4" SP		4.5" SP		5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20501	1800	789	15.8	830	17.9	871	20.2	912	22.7	950	25.1	989	27.6	1026	30.3	1061	32.8	1096	35.5	1131	38.3
21640	1900	796	16.5	836	18.7	876	21.1	914	23.5	953	26.0	991	28.6	1026	31.2	1062	33.9	1097	36.7	1129	39.4
22779	2000	805	17.3	844	19.6	881	21.9	918	24.4	956	27.0	992	29.5	1028	32.2	1063	35.0	1096	37.7	1130	40.7
23918	2100	816	18.2	852	20.5	888	22.9	924	25.3	960	27.9	995	30.5	1031	33.3	1064	36.1	1098	38.9	1130	41.8
25057	2200	828	19.1	863	21.5	897	23.9	932	26.4	966	29.0	1000	31.6	1034	34.4	1067	37.2	1101	40.2	1133	43.2
26196	2300	840	20.1	873	22.4	906	24.9	940	27.5	973	30.1	1006	32.8	1040	35.6	1071	38.4	1103	41.3	1135	44.4
27335	2400	854	21.1	886	23.6	918	26.0	949	28.5	982	31.3	1013	34.0	1045	36.8	1077	39.7	1107	42.6	1139	45.8
28474	2500	868	22.2	899	24.7	930	27.2	960	29.8	992	32.5	1022	35.3	1053	38.1	1083	41.0	1113	44.0	1143	47.2
29613	2600	884	23.4	914	25.9	943	28.4	972	31.1	1002	33.8	1032	36.7	1062	39.5	1090	42.4	1119	45.4	1148	48.6
31891	2800	918	26.0	945	28.5	971	31.1	1000	33.9	1027	36.8	1054	39.6	1082	42.5	1109	45.5	1137	48.7	1164	51.8
34169	3000	953	28.8	978	31.4	1003	34.1	1029	36.9	1055	39.9	1081	42.9	1106	45.9	1132	49.0	1157	52.1	1182	55.2
36447	3200	990	31.7	1013	34.5	1038	37.5	1061	40.3	1086	43.4	1109	46.3	1133	49.4	1158	52.7	1181	55.9	1206	59.3
38725	3400	1028	35.1	1051	38.1	1074	41.0	1096	44.0	1119	47.1	1140	50.1	1163	53.4	1187	56.8	1209	60.1	1231	63.3
41003	3600	1068	38.6	1089	41.6	1111	44.8	1132	47.9	1154	51.2	1175	54.4	1197	57.8	1217	61.1	1239	64.6	1259	67.8
43281	3800	1108	42.4	1128	45.7	1150	49.0	1170	52.4	1190	55.6	1210	59.0	1230	62.2	1250	65.7	1270	69.2	1291	73.0
45559	4000	1149	46.6	1169	50.0	1188	53.3	1208	56.8	1227	60.2	1247	63.8	1265	67.2	1285	70.8	1304	74.5	1323	78.0

CFM	OV	9" SP		9.5" SP		10" SP		10.5" SP		11" SP		11.5" SP		12" SP		12.5" SP		13" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
25057	2200	1164	46.1	1196	49.2	1226	52.3	1255	55.4	1286	58.8	1314	61.9	1343	65.2	1370	68.5	1399	72.0	1452	78.8
26196	2300	1165	47.4	1196	50.5	1226	53.6	1256	56.8	1287	60.3	1315	63.6	1342	66.8	1370	70.3	1398	73.7	1452	80.9
27335	2400	1170	48.9	1198	51.9	1229	55.2	1259	58.6	1286	61.7	1315	65.1	1342	68.5	1371	72.2	1397	75.5	1451	82.7
28474	2500	1173	50.2	1202	53.4	1230	56.6	1260	60.1	1288	63.4	1315	66.7	1344	70.3	1371	73.8	1397	77.3	1451	84.7
29613	2600	1178	51.8	1207	55.1	1234	58.2	1263	61.7	1291	65.1	1319	68.6	1345	72.1	1371	75.5	1398	79.2	1451	86.6
31891	2800	1190	55.0	1219	58.4	1245	61.7	1271	65.0	1298	68.6	1325	72.2	1351	75.8	1376	79.3	1402	83.1	1454	90.8
34169	3000	1208	58.6	1234	62.0	1259	65.3	1284	68.8	1309	72.3	1335	76.0	1360	79.7	1385	83.4	1409	87.1	1459	95.0
36447	3200	1229	62.5	1254	66.0	1277	69.4	1301	72.9	1325	76.6	1349	80.3	1372	83.9	1397	87.8	1420	91.6	1466	99.3
38725	3400	1253	66.6	1275	70.1	1299	73.9	1321	77.4	1344	81.1	1368	85.0	1389	88.7	1411	92.4	1434	96.4	1478	104
41003	3600	1280	71.3	1302	74.9	1324	78.7	1345	82.3	1366	86.0	1388	90.0	1409	93.6	1429	97.5	1451	101	1493	109
43281	3800	1311	76.5	1332	80.3	1351	83.8	1370	87.4	1391	91.2	1411	95.2	1433	99.4	1452	103	1473	107		
45559	4000	1342	81.7	1361	85.5	1381	89.5	1400	93.3	1419	97.2	1439	101	1457	105	1478	109				
47837	4200	1376	87.5	1394	91.5	1413	95.6	1431	99.4	1449	103	1468	107	1485	111						
50115	4400	1410	93.6	1428	97.7	1447	101	1464	105	1481	109										
52393	4600	1448	100	1403	104	1481	108														
54671	4800	1484	107																		

FA SERIES FANS

FA-54

Inlet diameter: 60" Wheel diameter: 54 1/4" Wheel Circumference: 14.19" Fan Outlet Area: 16.92 sq. ft.

CFM	OV	4" SP		4.5" SP		5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
30455	1800	647	23.5	682	26.8	714	30.1	748	33.7	779	37.3	811	41.1	842	45.0	870	48.8	899	52.8	927	56.9
32147	1900	653	24.5	686	27.9	718	31.3	749	34.9	781	38.7	812	42.5	841	46.3	871	50.4	899	54.5	927	58.8
33839	2000	660	25.7	692	29.1	723	32.7	754	36.3	784	40.1	813	43.8	843	47.9	872	52.0	900	56.2	927	60.4
35531	2100	669	27.0	699	30.4	728	34.0	758	37.6	787	41.5	817	45.5	845	49.5	873	53.6	900	57.8	927	62.1
37223	2200	678	28.4	707	31.9	736	35.5	764	39.2	792	43.0	820	47.0	848	51.1	875	55.3	903	59.7	929	64.1
38915	2300	689	29.8	717	33.4	743	37.0	771	40.8	798	44.7	825	48.7	852	52.9	878	57.0	904	61.4	931	65.9
40607	2400	700	31.4	726	35.0	752	38.6	779	42.5	805	46.5	831	50.5	857	54.7	883	59.0	909	63.5	934	68.0
42299	2500	712	33.0	737	36.6	762	40.4	788	44.4	813	48.3	838	52.4	863	56.6	888	60.9	913	65.4	938	70.0
43991	2600	725	34.8	750	38.5	774	42.3	797	46.2	821	50.2	846	54.4	870	58.7	894	63.0	918	67.5	942	72.1
47375	2800	752	38.6	775	42.4	796	46.2	820	50.4	842	54.6	864	58.8	887	63.2	909	67.6	932	72.3	954	76.9
50759	3000	782	42.8	802	46.6	823	50.7	843	54.8	865	59.3	886	63.7	907	68.1	928	72.8	949	77.3	970	82.2
54143	3200	811	47.1	831	51.3	851	55.7	870	59.8	891	64.5	909	68.8	929	73.4	949	78.2	969	83.0	989	88.0
57527	3400	843	52.1	862	56.5	881	61.0	898	65.3	917	70.0	935	74.5	954	79.3	973	84.3	992	89.3	1009	94.0
60911	3600	875	57.4	893	61.8	911	66.5	928	71.2	946	76.1	963	80.9	981	85.9	998	90.8	1016	95.9	1032	100
64295	3800	908	63.0	925	67.8	943	72.8	960	77.8	976	82.6	992	87.6	1008	92.4	1026	98.0	1041	102	1059	108
67679	4000	942	69.2	958	74.2	974	79.2	991	84.4	1006	89.5	1022	94.7	1038	99.8	1053	105	1069	110	1085	115

CFM	OV	9" SP		9.5" SP		10" SP		10.5" SP		11" SP		11.5" SP		12" SP		12.5" SP		13" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
37223	2200	954	68.4	981	73.1	1005	77.7	1029	82.3	1055	87.3	1078	92.3	1101	96.9	1126	102	1147	107	1191	117
38915	2300	956	70.4	982	75.2	1007	80.0	1031	84.8	1055	89.6	1078	94.5	1101	99.3	1124	104	1146	109	1191	120
40607	2400	959	72.6	983	77.1	1008	82.0	1032	87.0	1055	91.7	1078	96.7	1101	101	1124	107	1146	112	1190	122
42299	2500	961	74.6	985	79.3	1010	84.4	1034	89.3	1056	94.2	1080	99.5	1102	104	1124	109	1146	114	1189	125
43991	2600	966	76.9	990	81.8	1012	86.5	1036	91.6	1059	96.7	1081	101	1103	107	1126	112	1147	117	1190	128
47375	2800	976	81.6	999	86.7	1021	91.6	1042	96.6	1065	101	1086	107	1108	112	1129	117	1150	123	1192	134
50759	3000	991	87.0	1012	92.1	1032	97.0	1053	102	1075	107	1095	112	1115	118	1136	123	1155	129	1196	141
54143	3200	1008	92.9	1028	98.0	1047	103	1067	108	1087	113	1106	119	1125	124	1145	130	1165	136	1202	147
57527	3400	1029	99.5	1046	104	1065	109	1083	114	1102	120	1121	126	1139	131	1158	137	1176	143	1213	155
60911	3600	1051	106	1067	111	1086	116	1103	122	1120	127	1138	133	1155	139	1172	144	1190	150	1224	162
64295	3800	1075	113	1092	119	1108	124	1124	129	1140	135	1157	141	1175	147	1191	153	1208	159		
67679	4000	1100	121	1116	127	1133	133	1148	138	1164	144	1180	150	1195	155	1212	162	1227	168		
71063	4200	1128	130	1143	135	1159	141	1174	147	1189	153	1204	159	1218	165						
74447	4400	1157	139	1171	145	1186	151	1200	157	1214	163	1229	169								
77831	4600	1187	149	1201	155	1214	161	1227	167												
81215	4800	1217	159																		

FA SERIES FANS

FA-66

Inlet diameter: 72" Wheel diameter: 66" Wheel Circumference: 17.27" Fan Outlet Area: 25.05 sq. ft.

CFM	OV	4" SP		4.5" SP		5" SP		5.5" SP		6" SP		6.5" SP		7" SP		7.5" SP		8" SP		8.5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
45089	1800	532	34.8	560	39.7	587	44.6	615	49.9	641	55.2	666	60.8	692	66.6	715	72.2	739	78.1	763	84.3
47594	1900	537	36.3	564	41.4	590	46.4	616	51.7	642	57.3	668	63.0	691	68.6	716	74.6	739	80.7	763	87.0
50099	2000	543	38.1	569	43.2	594	48.4	619	53.6	645	59.4	668	64.9	693	70.9	717	77.1	740	83.3	762	89.5
52604	2100	550	40.1	574	45.1	599	50.3	623	55.8	647	61.5	671	67.2	695	73.3	717	79.3	740	85.7	762	92.0
55109	2200	558	42.1	581	47.3	605	52.6	628	58.0	651	63.7	674	69.6	697	75.7	719	81.9	742	88.4	764	95.0
57614	2300	566	44.2	589	49.5	611	54.8	634	60.5	656	66.2	678	72.1	701	78.4	722	84.5	743	90.9	765	97.6
60119	2400	576	46.6	597	51.9	618	57.2	640	63.0	662	68.8	683	74.8	705	81.0	726	87.4	747	94.1	768	100
62624	2500	585	48.9	606	54.3	627	59.8	647	65.5	668	71.6	689	77.6	710	83.9	730	90.3	750	96.9	771	103
65129	2600	596	51.6	616	57.1	636	62.7	655	68.4	675	74.4	696	80.7	715	87.0	735	93.4	754	100	774	106
70139	2800	619	57.2	637	62.8	655	68.5	674	74.6	692	80.9	711	87.1	729	93.6	747	100	766	107	784	113
75149	3000	643	63.3	659	69.0	676	75.1	693	81.2	711	87.8	729	94.4	746	100	763	107	780	114	797	121
80159	3200	667	69.8	683	76.0	700	82.5	715	88.6	732	95.5	748	101	764	108	780	115	796	122	813	130
85169	3400	693	77.2	709	83.7	724	90.3	739	96.8	754	103	769	110	784	117	800	124	815	132	829	139
90179	3600	720	85.0	734	91.6	749	98.6	763	105	778	112	792	119	807	127	821	134	835	142	849	149
95189	3800	747	93.4	760	100	775	107	789	115	802	122	816	129	829	136	843	145	856	152	870	160
100199	4000	774	102	788	110	800	117	814	125	827	132	840	140	853	147	866	155	879	163	892	171

CFM	OV	9" SP		9.5" SP		10" SP		10.5" SP		11" SP		11.5" SP		12" SP		12.5" SP		13" SP		14" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
55109	2200	784	101	806	108	826	115	846	121	867	129	886	136	905	143	924	150	943	158	979	173
57614	2300	786	104	806	111	828	118	848	125	867	132	886	139	905	147	924	154	942	162	979	178
60119	2400	788	107	808	114	828	121	848	128	867	135	886	143	905	150	924	158	942	166	978	182
62624	2500	790	110	810	117	830	125	850	132	868	139	887	146	906	154	924	162	942	170	978	186
65129	2600	794	113	813	121	832	128	851	135	870	143	889	150	907	158	924	166	943	174	978	190
70139	2800	802	120	821	128	839	135	857	143	875	150	893	158	911	166	928	174	945	182	980	199
75149	3000	814	128	832	136	848	143	865	151	883	159	900	167	917	175	934	183	950	191	983	209
80159	3200	829	137	845	145	861	152	877	160	893	168	909	176	925	184	941	193	957	201	988	218
85169	3400	846	147	860	154	876	162	891	170	906	178	922	187	936	195	951	203	967	212	996	229
90179	3600	863	156	877	164	892	173	906	181	921	189	936	197	949	205	964	214	978	223	1006	240
95189	3800	884	168	898	176	911	184	924	192	937	200	951	209	966	218	979	227	993	235		
100199	4000	904	179	918	188	931	196	944	205	957	213	970	222	982	230	996	240	1009	249		
105209	4200	927	192	940	201	953	210	965	218	977	227	990	236	1001	244						
110219	4400	951	205	963	214	975	224	986	232	998	241	1010	251								
115229	4600	976	220	987	230	998	238	1009	247												
120239	4800	1001	235																		

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