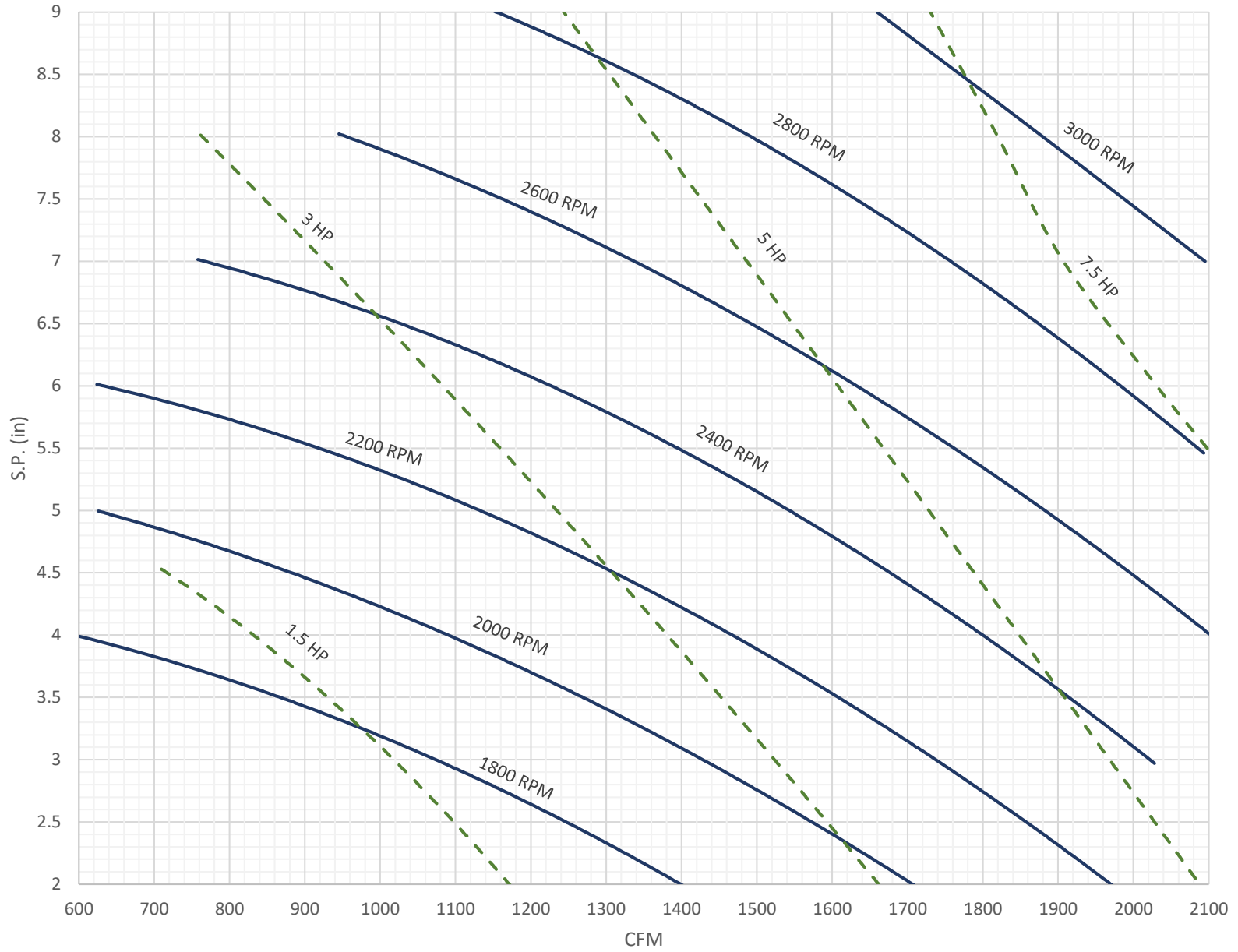


No. 18 Fan Performance Curves





No. 18 Material Handling Fan

Wheel Diameter 18.5" No. of Blades: 6 Wheel Circumference 4.843' Max RPM: 3600 *outlet velocity based on 8" diameter pipe

| CFM | OUT VEL | 2" S.P. | | 2.5" S.P. | | 3" S.P. | | 3.5" S.P. | | 4" S.P. | | 4.5" S.P. | | 5" S.P. | | 5.5" S.P. | | 6" S.P. | | 7" S.P. | | 8" S.P. | | 9" S.P. | |
|------|------------|---------|------|-----------|------|---------|------|-----------|------|---------|------|-----------|------|---------|------|-----------|------|---------|------|---------|------|---------|------|---------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 698 | 2000 | 1385 | 0.67 | 1506 | 0.81 | 1629 | 0.98 | 1739 | 1.15 | 1838 | 1.26 | 1942 | 1.48 | 2035 | 1.67 | 2137 | 1.91 | 2218 | 2.01 | 2388 | 2.51 | 2544 | 2.80 | 2700 | 3.11 |
| 768 | 2200 | 1417 | 0.76 | 1534 | 0.90 | 1653 | 1.07 | 1765 | 1.26 | 1862 | 1.38 | 1964 | 1.60 | 2069 | 1.87 | 2153 | 2.02 | 2235 | 2.14 | 2402 | 2.64 | 2556 | 3.02 | 2708 | 3.40 |
| 838 | 2400 | 1441 | 0.83 | 1567 | 1.01 | 1683 | 1.18 | 1785 | 1.34 | 1886 | 1.49 | 1988 | 1.74 | 2084 | 1.97 | 2170 | 2.14 | 2251 | 2.26 | 2414 | 2.75 | 2568 | 3.16 | 2718 | 3.65 |
| 908 | 2600 | 1480 | 0.95 | 1599 | 1.12 | 1706 | 1.26 | 1811 | 1.45 | 1916 | 1.62 | 2013 | 1.88 | 2109 | 2.11 | 2193 | 2.30 | 2276 | 2.46 | 2433 | 2.93 | 2586 | 3.34 | 2730 | 3.89 |
| 977 | 2800 | 1522 | 1.07 | 1634 | 1.24 | 1744 | 1.41 | 1843 | 1.58 | 1942 | 1.76 | 2037 | 2.02 | 2132 | 2.26 | 2221 | 2.49 | 2304 | 2.68 | 2460 | 3.17 | 2612 | 3.62 | 2747 | 4.07 |
| 1047 | 3000 | 1560 | 1.19 | 1678 | 1.41 | 1783 | 1.58 | 1881 | 1.75 | 1971 | 1.93 | 2065 | 2.18 | 2160 | 2.42 | 2248 | 2.66 | 2330 | 2.89 | 2484 | 3.38 | 2633 | 3.84 | 2766 | 4.34 |
| 1117 | 3200 | 1609 | 1.36 | 1722 | 1.57 | 1820 | 1.74 | 1911 | 1.89 | 2007 | 2.15 | 2097 | 2.36 | 2188 | 2.60 | 2278 | 2.88 | 2356 | 3.10 | 2507 | 3.48 | 2658 | 4.10 | 2789 | 4.51 |
| 1187 | 3400 | 1650 | 1.52 | 1765 | 1.74 | 1858 | 1.92 | 1948 | 2.07 | 2046 | 2.38 | 2135 | 2.59 | 2221 | 2.80 | 2305 | 3.09 | 2379 | 3.28 | 2526 | 3.74 | 2679 | 4.33 | 2812 | 4.77 |
| 1257 | 3600 | 1697 | 1.70 | 1823 | 2.00 | 1900 | 2.11 | 1995 | 2.35 | 2088 | 2.62 | 2172 | 2.82 | 2260 | 3.04 | 2332 | 3.29 | 2407 | 3.50 | 2556 | 4.00 | 2702 | 4.57 | 2838 | 5.08 |
| 1327 | 3800 | 1753 | 1.92 | 1848 | 2.11 | 1942 | 2.37 | 2030 | 2.56 | 2128 | 2.86 | 2211 | 3.06 | 2293 | 3.27 | 2363 | 3.54 | 2437 | 3.74 | 2588 | 4.26 | 2728 | 4.86 | 2861 | 5.36 |
| 1396 | 4000 | 1795 | 2.12 | 1890 | 2.30 | 1983 | 2.56 | 2077 | 2.85 | 2162 | 3.06 | 2249 | 3.30 | 2323 | 3.51 | 2397 | 3.79 | 2468 | 3.99 | 2617 | 4.54 | 2758 | 5.18 | 2884 | 5.63 |
| 1466 | 4200 | 1830 | 2.29 | 1934 | 2.51 | 2025 | 2.81 | 2113 | 3.06 | 2202 | 3.30 | 2288 | 3.55 | 2356 | 3.78 | 2432 | 4.06 | 2505 | 4.30 | 2645 | 4.80 | 2784 | 5.46 | 2912 | 5.98 |
| 1536 | 4400 | 1879 | 2.53 | 1978 | 2.77 | 2067 | 3.06 | 2155 | 3.33 | 2240 | 3.53 | 2319 | 3.80 | 2395 | 4.09 | 2468 | 4.35 | 2540 | 4.58 | 2675 | 5.11 | 2816 | 5.80 | 2940 | 6.31 |
| 1606 | 4600 | 1928 | 2.76 | 2021 | 3.03 | 2116 | 3.36 | 2220 | 3.62 | 2288 | 3.83 | 2361 | 4.14 | 2440 | 4.45 | 2509 | 4.69 | 2579 | 4.90 | 2719 | 5.56 | 2851 | 6.20 | 2973 | 6.71 |
| 1678 | 4800 | 1978 | 3.05 | 2072 | 3.33 | 2162 | 3.65 | 2249 | 3.93 | 2330 | 4.17 | 2407 | 4.50 | 2484 | 4.81 | 2556 | 5.07 | 2630 | 5.32 | 2759 | 5.98 | 2877 | 6.50 | 3008 | 7.18 |
| 1746 | 5000 | 2025 | 3.34 | 2116 | 3.60 | 2205 | 3.93 | 2295 | 4.24 | 2370 | 4.48 | 2446 | 4.81 | 2521 | 5.10 | 2595 | 5.39 | 2663 | 5.67 | 2793 | 6.31 | 2924 | 7.04 | 3038 | 7.59 |
| 1815 | 5200 | 2077 | 3.64 | 2167 | 3.92 | 2253 | 4.23 | 2335 | 4.55 | 2416 | 4.86 | 2493 | 5.22 | 2567 | 5.48 | 2638 | 5.78 | 2703 | 6.10 | 2837 | 6.83 | 2961 | 7.46 | 3078 | 8.14 |
| 1885 | 5400 | 2137 | 4.02 | 2223 | 4.28 | 2302 | 4.58 | 2379 | 4.90 | 2463 | 5.24 | 2537 | 5.59 | 2609 | 5.82 | 2679 | 6.19 | 2751 | 6.59 | 2879 | 7.34 | 3003 | 8.00 | 3115 | 8.65 |
| 1955 | 5600 | 2188 | 4.34 | 2272 | 4.59 | 2349 | 4.94 | 2426 | 5.26 | 2507 | 5.62 | 2579 | 5.96 | 2649 | 6.21 | 2719 | 6.62 | 2791 | 7.02 | 2919 | 7.85 | 3040 | 8.52 | 3152 | 9.15 |
| 2025 | 5800 | 2235 | 4.64 | 2321 | 4.98 | 2398 | 5.33 | 2474 | 5.65 | 2544 | 5.94 | 2617 | 6.30 | 2689 | 6.64 | 2759 | 7.04 | 2830 | 7.46 | 2958 | 8.32 | 3078 | 9.07 | 3191 | 9.68 |
| 2095 | 6000 | 2288 | 4.99 | 2363 | 5.31 | 2446 | 5.69 | 2516 | 6.02 | 2589 | 6.33 | 2663 | 6.74 | 2730 | 7.07 | 2801 | 7.48 | 2868 | 7.93 | 3000 | 8.84 | 3122 | 9.69 | 3233 | 10.26 |