

40 270

PERFORMANCE TABLES

Wheel Diameter: 27"
 Outlet Area: **4.190 sq. Ft.**
 Maximum RPM: **1400**
 Tip Speed in FPM: **7.07 x RPM**

Series **CMB 40**: 5 hp
 Series **40F**: 7.5 hp

Other horsepower available through 15 HP

| CFM | Outlet Velocity | ¼" SP | | ⅜" SP | | ½" SP | | ⅝" SP | | ¾" SP | | 1" SP | | 1¼" SP | | 1½" SP | |
|-------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 3780 | 900 | 397 | 0.254 | 431 | 0.327 | 464 | 0.404 | 498 | 0.485 | 531 | 0.570 | 595 | 0.754 | | | | |
| 4200 | 1000 | 426 | 0.310 | 458 | 0.392 | 488 | 0.473 | 518 | 0.559 | 548 | 0.649 | 608 | 0.840 | | | | |
| 4620 | 1100 | 454 | 0.377 | 486 | 0.465 | 514 | 0.554 | 541 | 0.645 | 569 | 0.739 | 623 | 0.939 | | | | |
| 5040 | 1200 | 485 | 0.456 | 515 | 0.547 | 541 | 0.646 | 566 | 0.743 | 591 | 0.842 | 641 | 1.052 | 692 | 1.274 | 741 | 1.51 |
| 5460 | 1300 | 518 | 0.542 | 543 | 0.643 | 570 | 0.748 | 593 | 0.853 | 616 | 0.959 | 663 | 1.177 | 709 | 1.409 | 756 | 1.65 |
| 5880 | 1400 | 549 | 0.644 | 571 | 0.752 | 598 | 0.860 | 622 | 0.976 | 643 | 1.089 | 686 | 1.318 | 729 | 1.560 | 772 | 1.81 |
| 6300 | 1500 | 582 | 0.763 | 605 | 0.875 | 626 | 0.988 | 650 | 1.108 | 672 | 1.232 | 712 | 1.474 | 752 | 1.725 | 792 | 1.99 |
| 6720 | 1600 | 616 | 0.898 | 636 | 1.008 | 655 | 1.133 | 679 | 1.255 | 700 | 1.386 | 738 | 1.646 | 776 | 1.907 | 814 | 2.18 |
| 7140 | 1700 | 650 | 1.045 | 668 | 1.159 | 687 | 1.293 | 707 | 1.321 | 729 | 1.553 | 766 | 1.833 | 802 | 2.108 | 837 | 2.39 |
| 7560 | 1800 | 684 | 1.211 | 701 | 1.333 | 720 | 1.465 | 735 | 1.604 | 757 | 1.741 | 795 | 2.034 | 829 | 2.326 | 862 | 2.62 |
| 7980 | 1900 | | | 734 | 1.525 | 751 | 1.656 | 768 | 1.806 | 785 | 1.948 | 823 | 2.248 | 857 | 2.560 | 888 | 2.87 |
| 8400 | 2000 | | | 768 | 1.740 | 783 | 1.866 | 801 | 2.019 | 814 | 2.175 | 852 | 2.481 | 885 | 2.811 | 916 | 3.13 |
| 9240 | 2200 | | | 836 | 2.213 | 849 | 2.364 | 864 | 2.508 | 880 | 2.679 | 908 | 3.017 | 942 | 3.357 | 972 | 3.72 |
| 10080 | 2400 | | | | | 917 | 2.944 | 930 | 3.108 | 943 | 3.265 | 970 | 3.644 | 998 | 4.004 | 1029 | 4.38 |
| 10920 | 2600 | | | | | | | 997 | 3.807 | 1099 | 3.972 | 1035 | 4.340 | 1057 | 4.751 | 1085 | 5.14 |
| 11760 | 2800 | | | | | | | 1065 | 4.585 | 1076 | 4.797 | 1098 | 5.150 | 1124 | 5.589 | 1143 | 6.02 |
| 12600 | 3000 | | | | | | | | | 1144 | 5.696 | 1164 | 6.104 | 1187 | 6.524 | 1210 | 7.00 |
| 13440 | 3200 | | | | | | | | | | | 1231 | 7.186 | 1251 | 7.594 | 1273 | 8.06 |
| 14280 | 3400 | | | | | | | | | | | 1299 | 8.363 | | | | |

CFM = Cubic Feet/Minute SP = Static Pressure RPM = Revolutions / Minute BHP = Brake Horsepower

| CFM | Outlet Velocity | 1¼" SP | | 2" SP | | 2½" SP | | 3" SP | | 3½" SP | | 4" SP | | 4½" SP | | 5" SP | |
|-------|-----------------|--------|------|-------|------|--------|-------|-------|------|--------|------|-------|-------|--------|-------|-------|-------|
| | | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 3780 | 900 | | | | | | | | | | | | | | | | |
| 4200 | 1000 | | | | | | | | | | | | | | | | |
| 4620 | 1100 | | | | | | | | | | | | | | | | |
| 5040 | 1200 | 788 | 1.76 | 832 | 2.02 | | | | | | | | | | | | |
| 5460 | 1300 | 801 | 1.91 | 844 | 2.18 | 925 | 2.75 | | | | | | | | | | |
| 5880 | 1400 | 816 | 2.08 | 858 | 2.35 | 937 | 2.93 | 1011 | 3.56 | | | | | | | | |
| 6300 | 1500 | 832 | 2.26 | 872 | 2.54 | 950 | 3.14 | 1023 | 3.78 | 1091 | 4.45 | | | | | | |
| 6720 | 1600 | 851 | 2.46 | 889 | 2.75 | 964 | 3.37 | 1035 | 4.02 | 1102 | 4.71 | 1166 | 5.43 | | | | |
| 7140 | 1700 | 872 | 2.68 | 908 | 2.98 | 979 | 3.61 | 1048 | 4.28 | 1114 | 4.98 | 1177 | 5.72 | 1237 | 6.49 | | |
| 7560 | 1800 | 895 | 2.92 | 929 | 3.23 | 996 | 3.88 | 1063 | 4.56 | 1127 | 5.28 | 1189 | 6.03 | 1248 | 6.82 | 1304 | 7.63 |
| 7980 | 1900 | 920 | 3.18 | 951 | 3.50 | 1015 | 4.17 | 1079 | 4.86 | 1141 | 5.60 | 1202 | 6.36 | 1260 | 7.16 | 1316 | 7.99 |
| 8400 | 2000 | 945 | 3.46 | 975 | 3.79 | 1036 | 4.47 | 1096 | 5.19 | 1157 | 5.94 | 1216 | 6.72 | 1273 | 7.54 | 1328 | 8.38 |
| 9240 | 2200 | 1000 | 4.08 | 1027 | 4.43 | 1082 | 5.16 | 1137 | 5.92 | 1191 | 6.70 | 1246 | 7.51 | 1301 | 8.36 | 1354 | 9.23 |
| 10080 | 2400 | 1057 | 4.78 | 1083 | 5.17 | 1133 | 5.94 | 1183 | 6.74 | 1233 | 7.56 | 1283 | 8.42 | 1333 | 9.29 | 1384 | 10.19 |
| 10920 | 2600 | 1114 | 5.55 | 1140 | 5.98 | 1187 | 6.83 | 1233 | 7.67 | 1279 | 8.53 | 1326 | 9.42 | 1371 | 10.34 | | |
| 11760 | 2800 | 1170 | 6.44 | 1196 | 6.88 | 1244 | 7.80 | 1287 | 8.71 | 1330 | 9.62 | 1373 | 10.54 | | | | |
| 12600 | 3000 | 1227 | 7.45 | 1252 | 7.91 | 1301 | 8.86 | 1343 | 9.85 | | | | | | | | |
| 13440 | 3200 | 1294 | 8.58 | 1310 | 9.05 | 1357 | 10.04 | | | | | | | | | | |
| 14280 | 3400 | | | | | | | | | | | | | | | | |