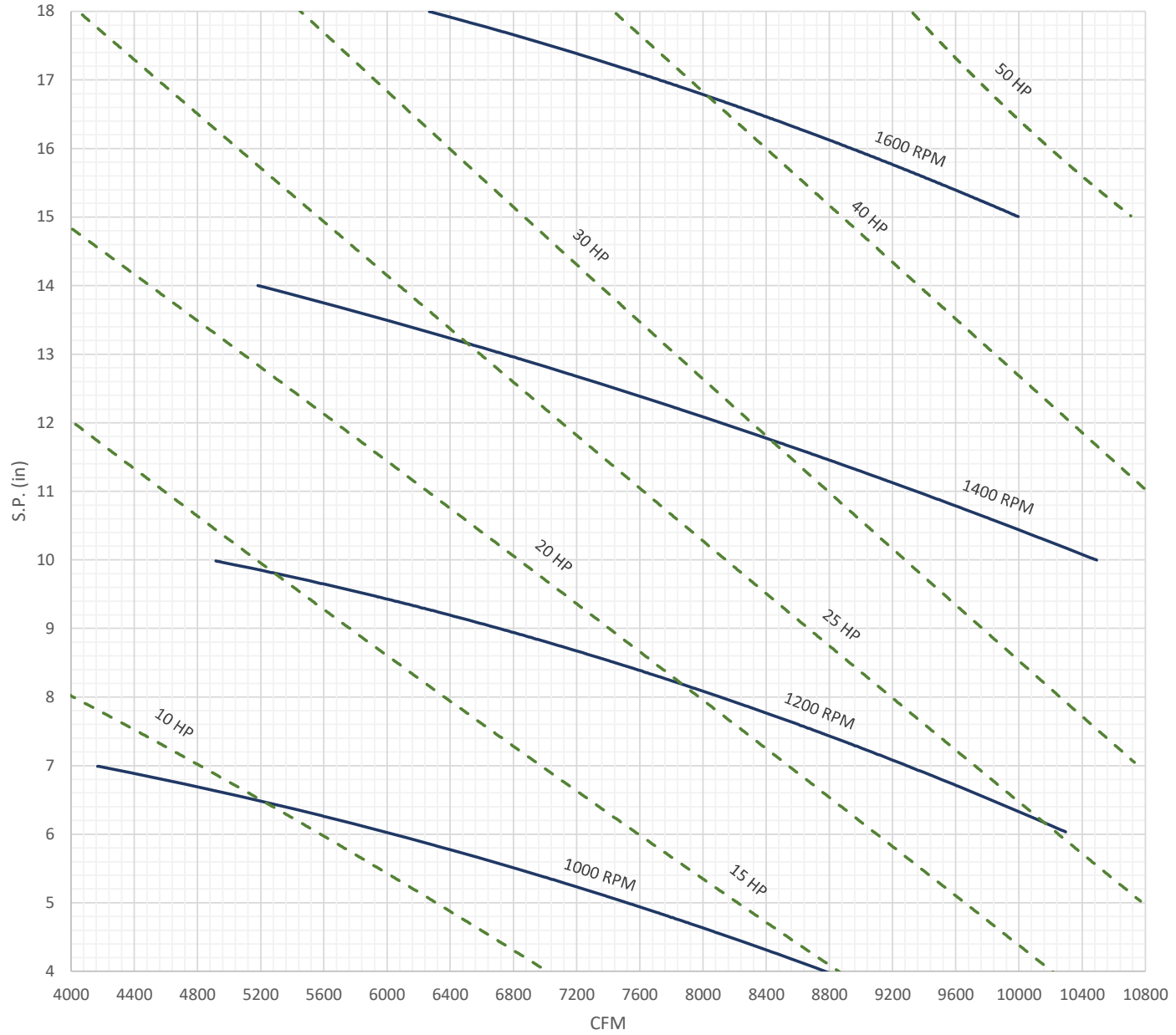


No. 40 Fan Performance Curves





## No. 40 Material Handling Fan

Wheel Diameter 36"

No. of Blades: 12

Wheel Circumference 9.427'

Max RPM: 1600

\*outlet velocity based on 17" diameter pipe

| CFM   | OUT VEL | 3" S.P. |       | 4" S.P. |       | 5" S.P. |       | 6" S.P. |       | 7" S.P. |       | 8" S.P. |       | 9" S.P. |       | 10" S.P. |       | 11" S.P. |       | 12" S.P. |       | 13" S.P. |       | 14" S.P. |       | 15" S.P. |       | 16" S.P. |       | 17" S.P. |       | 18" 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   | RPM      | BHP   | RPM      | BHP   | RPM      | BHP   | RPM      | BHP   |
| 3152  | 2000    | 664     | 2.66  | 758     | 3.72  | 835     | 4.97  | 912     | 6.06  | 975     | 6.53  | 1038    | 7.89  | 1105    | 9.81  | 1160     | 10.66 | 1214     | 11.61 | 1264     | 13.26 | 1313     | 14.08 | 1360     | 15.90 | 1410     | 17.57 | 1450     | 20.00 | 1496     | 20.79 | 1525     | 23.79 |
| 3467  | 2200    | 674     | 2.95  | 765     | 4.04  | 845     | 5.39  | 918     | 6.39  | 980     | 6.99  | 1046    | 8.51  | 1111    | 10.31 | 1165     | 11.12 | 1221     | 12.42 | 1269     | 13.89 | 1319     | 14.90 | 1366     | 16.74 | 1416     | 18.51 | 1454     | 20.59 | 1499     | 21.32 | 1532     | 24.32 |
| 3782  | 2400    | 686     | 3.29  | 777     | 4.47  | 855     | 5.81  | 925     | 6.78  | 988     | 7.57  | 1053    | 9.92  | 1118    | 10.88 | 1171     | 11.66 | 1226     | 12.99 | 1275     | 14.65 | 1325     | 15.73 | 1372     | 17.58 | 1423     | 19.61 | 1458     | 21.18 | 1502     | 21.85 | 1539     | 24.85 |
| 4098  | 2600    | 698     | 3.64  | 787     | 4.83  | 865     | 6.23  | 935     | 7.33  | 998     | 8.30  | 1063    | 10.49 | 1124    | 11.39 | 1180     | 12.48 | 1232     | 13.68 | 1283     | 15.66 | 1332     | 16.68 | 1378     | 18.42 | 1430     | 20.71 | 1463     | 21.92 | 1505     | 22.38 | 1546     | 25.38 |
| 4413  | 2800    | 712     | 4.09  | 800     | 5.30  | 877     | 6.73  | 944     | 7.82  | 1007    | 8.92  | 1073    | 11.06 | 1133    | 12.11 | 1187     | 13.12 | 1238     | 14.37 | 1290     | 16.54 | 1338     | 17.51 | 1383     | 19.12 | 1437     | 21.81 | 1469     | 22.81 | 1510     | 23.25 | 1553     | 26.28 |
| 4728  | 3000    | 725     | 4.51  | 812     | 5.80  | 888     | 7.20  | 954     | 8.37  | 1017    | 9.60  | 1081    | 11.52 | 1140    | 12.68 | 1194     | 13.75 | 1245     | 15.18 | 1297     | 17.42 | 1343     | 18.19 | 1389     | 19.96 | 1443     | 22.75 | 1474     | 23.55 | 1517     | 24.48 | 1560     | 27.50 |
| 5043  | 3200    | 738     | 4.94  | 826     | 6.39  | 901     | 7.75  | 964     | 8.95  | 1027    | 10.27 | 1091    | 12.09 | 1149    | 13.42 | 1204     | 14.71 | 1253     | 16.10 | 1306     | 18.50 | 1351     | 19.29 | 1396     | 20.99 | 1450     | 23.85 | 1481     | 24.59 | 1523     | 25.53 | 1567     | 28.73 |
| 5358  | 3400    | 754     | 5.46  | 837     | 6.85  | 910     | 8.23  | 974     | 9.47  | 1038    | 11.02 | 1102    | 12.76 | 1159    | 14.24 | 1210     | 15.30 | 1263     | 17.25 | 1310     | 18.97 | 1359     | 20.38 | 1405     | 22.20 | 1457     | 24.95 | 1488     | 25.62 | 1531     | 26.93 | 1575     | 30.13 |
| 5674  | 3600    | 769     | 5.94  | 851     | 7.44  | 917     | 8.59  | 986     | 10.13 | 1049    | 11.76 | 1111    | 13.47 | 1167    | 14.39 | 1220     | 16.34 | 1273     | 18.40 | 1320     | 20.14 | 1369     | 21.74 | 1412     | 23.18 | 1463     | 25.89 | 1494     | 26.51 | 1539     | 28.33 | 1583     | 31.83 |
| 5989  | 3800    | 784     | 6.43  | 864     | 7.99  | 934     | 9.49  | 1000    | 10.90 | 1062    | 12.64 | 1121    | 14.26 | 1178    | 15.80 | 1230     | 17.36 | 1282     | 19.43 | 1330     | 21.31 | 1378     | 22.99 | 1419     | 24.16 | 1470     | 26.99 | 1503     | 27.85 | 1547     | 29.73 | 1592     | 33.10 |
| 6304  | 4000    | 803     | 7.08  | 878     | 8.58  | 945     | 10.06 | 1012    | 11.69 | 1074    | 13.45 | 1131    | 15.05 | 1192    | 16.94 | 1240     | 18.38 | 1292     | 20.58 | 1339     | 22.36 | 1388     | 24.36 | 1428     | 25.42 | 1477     | 28.09 | 1512     | 29.21 | 1557     | 31.48 | 1601     | 34.67 |
| 6619  | 4200    | 815     | 7.59  | 891     | 9.12  | 959     | 10.80 | 1023    | 12.42 | 1084    | 14.12 | 1142    | 15.92 | 1199    | 17.52 | 1249     | 19.30 | 1302     | 21.73 | 1351     | 23.77 | 1396     | 25.45 | 1437     | 26.64 | 1483     | 29.03 | 1522     | 30.72 | 1567     | 33.23 | 1610     | 36.15 |
| 6934  | 4400    | 831     | 8.27  | 907     | 9.87  | 973     | 11.53 | 1034    | 13.14 | 1095    | 14.86 | 1153    | 16.79 | 1210    | 18.59 | 1258     | 20.22 | 1310     | 22.65 | 1359     | 24.70 | 1406     | 26.75 | 1446     | 27.94 | 1490     | 30.13 | 1533     | 32.38 | 1576     | 34.80 | 1618     | 37.47 |
| 7250  | 4600    | 847     | 8.95  | 921     | 10.61 | 987     | 12.27 | 1048    | 14.07 | 1107    | 15.76 | 1162    | 17.50 | 1220    | 19.58 | 1272     | 21.64 | 1321     | 23.92 | 1367     | 25.62 | 1414     | 27.75 | 1455     | 29.20 | 1497     | 31.23 | 1540     | 33.44 | 1585     | 36.30 | 1627     | 38.96 |
| 7565  | 4800    | 862     | 9.59  | 936     | 11.41 | 1000    | 12.95 | 1060    | 14.86 | 1119    | 16.72 | 1177    | 18.68 | 1231    | 20.67 | 1283     | 22.77 | 1332     | 25.18 | 1379     | 27.04 | 1424     | 29.00 | 1467     | 30.88 | 1509     | 32.79 | 1551     | 35.10 | 1595     | 38.13 | 1637     | 40.61 |
| 7880  | 5000    | 884     | 10.52 | 952     | 12.26 | 1016    | 14.00 | 1076    | 15.92 | 1134    | 17.92 | 1191    | 19.79 | 1243    | 21.86 | 1295     | 23.99 | 1343     | 26.45 | 1391     | 28.45 | 1434     | 30.25 | 1476     | 32.14 | 1522     | 34.85 | 1562     | 36.76 | 1606     | 39.96 | 1647     | 42.26 |
| 8195  | 5200    | 903     | 11.34 | 968     | 13.10 | 1030    | 14.92 | 1090    | 16.84 | 1147    | 18.96 | 1203    | 20.79 | 1255    | 23.05 | 1309     | 25.49 | 1357     | 28.06 | 1403     | 29.88 | 1445     | 31.63 | 1489     | 33.96 | 1534     | 36.56 | 1574     | 38.57 | 1616     | 41.56 | 1657     | 43.91 |
| 8510  | 5400    | 920     | 12.16 | 984     | 13.95 | 1046    | 15.96 | 1104    | 17.81 | 1160    | 20.00 | 1213    | 21.74 | 1266    | 24.13 | 1320     | 26.70 | 1370     | 29.55 | 1414     | 31.25 | 1457     | 33.13 | 1500     | 35.50 | 1547     | 38.42 | 1585     | 40.24 | 1627     | 43.32 | 1667     | 45.56 |
| 8826  | 5600    | 938     | 13.02 | 1004    | 15.06 | 1062    | 17.01 | 1121    | 19.13 | 1176    | 21.28 | 1228    | 23.16 | 1280    | 25.52 | 1333     | 28.13 | 1380     | 30.70 | 1425     | 32.63 | 1469     | 34.63 | 1510     | 36.92 | 1559     | 40.14 | 1595     | 41.75 | 1637     | 44.92 | 1678     | 47.37 |
| 9141  | 5800    | 958     | 13.98 | 1020    | 16.12 | 1078    | 18.06 | 1135    | 20.21 | 1189    | 22.32 | 1241    | 24.40 | 1293    | 26.81 | 1344     | 29.34 | 1393     | 32.20 | 1438     | 34.25 | 1481     | 36.13 | 1522     | 38.62 | 1572     | 42.00 | 1607     | 43.64 | 1648     | 46.68 | 1688     | 49.02 |
| 9456  | 6000    | 974     | 14.75 | 1036    | 17.16 | 1095    | 19.17 | 1151    | 21.45 | 1206    | 23.75 | 1256    | 25.82 | 1307    | 28.25 | 1356     | 30.66 | 1404     | 32.99 | 1448     | 35.50 | 1493     | 37.63 | 1535     | 40.47 | 1584     | 43.71 | 1618     | 45.43 | 1659     | 48.44 | 1698     | 50.67 |
| 9771  | 6200    | 993     | 15.66 | 1054    | 18.36 | 1112    | 20.40 | 1168    | 22.77 | 1221    | 25.11 | 1272    | 27.34 | 1320    | 29.64 | 1369     | 32.09 | 1417     | 34.59 | 1462     | 37.25 | 1505     | 39.23 | 1546     | 42.03 | 1595     | 45.29 | 1629     | 47.21 | 1671     | 50.36 | 1709     | 52.67 |
| 10086 | 6400    | 1013    | 16.88 | 1072    | 19.55 | 1133    | 21.98 | 1188    | 24.32 | 1238    | 26.66 | 1288    | 28.86 | 1335    | 31.25 | 1382     | 33.52 | 1430     | 36.19 | 1476     | 39.00 | 1519     | 41.26 | 1559     | 43.88 | 1602     | 46.32 | 1641     | 49.16 | 1682     | 52.12 | 1720     | 54.70 |
| 10402 | 6600    | 1032    | 18.16 | 1091    | 20.81 | 1152    | 23.40 | 1206    | 25.78 | 1255    | 28.21 | 1305    | 30.54 | 1350    | 32.85 | 1396     | 35.06 | 1442     | 37.67 | 1487     | 40.38 | 1531     | 43.00 | 1571     | 45.58 | 1612     | 47.94 | 1653     | 51.11 | 1694     | 54.04 | 1731     | 56.74 |
| 10717 | 6800    | 1052    | 19.51 | 1114    | 22.32 | 1170    | 24.75 | 1224    | 27.35 | 1274    | 29.93 | 1324    | 32.57 | 1367    | 34.67 | 1410     | 36.73 | 1457     | 39.51 | 1500     | 41.75 | 1544     | 44.88 | 1583     | 47.29 | 1625     | 50.05 | 1664     | 52.90 | 1702     | 55.36 | 1742     | 58.77 |
| 11032 | 7000    | 1075    | 21.06 | 1133    | 23.58 | 1190    | 26.25 | 1243    | 29.01 | 1292    | 31.57 | 1338    | 34.07 | 1384    | 36.49 | 1422     | 38.20 | 1471     | 41.23 | 1515     | 43.95 | 1557     | 46.77 | 1596     | 49.13 | 1636     | 51.83 | 1678     | 55.18 | 1716     | 57.88 | 1753     | 60.81 |