SHOEMAKER MANUFACTURING

# Performance Data

## 1500 Series

| Duct Size | Core Eff. Area ($ft^2$) | Neck Velocity (FPM) | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Velocity Pressure | .011 | .017 | .023 | .031 | .040 | .062 | .089 | .122 |
| 10x10 | 0.545 | CFM | 218 | 273 | 327 | 382 | 436 | 545 | 654 | 763 |
| 12x12 | 0.795 | CFM | 318 | 398 | 477 | 557 | 636 | 795 | 954 | 1114 |
| 14x14 | 1.093 | CFM | 437 | 546 | 656 | 765 | 874 | 1093 | 1311 | 1530 |
| 16x16 | 1.437 | CFM | 575 | 719 | 862 | 1006 | 1150 | 1437 | 1724 | 2012 |
| 18x18 | 1.828 | CFM | 731 | 914 | 1097 | 1280 | 1463 | 1828 | 2194 | 2560 |
| 20x10 | 1.115 | CFM | 446 | 557 | 669 | 780 | 892 | 1115 | 1338 | 1561 |
| 20x12 | 1.345 | CFM | 538 | 673 | 807 | 942 | 1076 | 1345 | 1614 | 1883 |
| 20x14 | 1.576 | CFM | 630 | 788 | 945 | 1103 | 1261 | 1576 | 1891 | 2206 |
| 20x20 | 2.267 | CFM | 907 | 1133 | 1360 | 1587 | 1814 | 2267 | 2720 | 3174 |
| 24x10 | 1.343 | CFM | 537 | 671 | 806 | 940 | 1074 | 1343 | 1611 | 1880 |
| 24x12 | 1.620 | CFM | 648 | 810 | 972 | 1134 | 1296 | 1620 | 1944 | 2268 |
| 24x14 | 1.898 | CFM | 759 | 949 | 1139 | 1328 | 1518 | 1898 | 2277 | 2657 |
| 24x16 | 2.175 | CFM | 870 | 1088 | 1305 | 1523 | 1740 | 2175 | 2610 | 3045 |
| 24x18 | 2.453 | CFM | 981 | 1226 | 1472 | 1717 | 1962 | 2453 | 2943 | 3434 |
| 24x20 | 2.730 | CFM | 1092 | 1365 | 1638 | 1911 | 2184 | 2730 | 3276 | 3822 |
| 24x24 | 3.285 | CFM | 1314 | 1643 | 1971 | 2300 | 2628 | 3285 | 3942 | 4599 |
| 30x10 | 1.685 | CFM | 674 | 842 | 1011 | 1179 | 1348 | 1685 | 2021 | 2358 |
| 30x12 | 2.033 | CFM | 813 | 1016 | 1220 | 1423 | 1626 | 2033 | 2439 | 2846 |
| 30x14 | 2.381 | CFM | 952 | 1190 | 1429 | 1667 | 1905 | 2381 | 2857 | 3333 |
| 30x16 | 2.729 | CFM | 1092 | 1365 | 1637 | 1910 | 2183 | 2729 | 3275 | 3821 |
| 30x20 | 3.425 | CFM | 1370 | 1713 | 2055 | 2398 | 2740 | 3425 | 4110 | 4795 |
| 30x24 | 4.122 | CFM | 1649 | 2061 | 2473 | 2885 | 3297 | 4122 | 4946 | 5770 |
| 30x30 | 5.166 | CFM | 2066 | 2583 | 3100 | 3616 | 4133 | 5166 | 6199 | 7232 |
| 36x10 | 2.026 | CFM | 811 | 1013 | 1216 | 1418 | 1621 | 2026 | 2432 | 2837 |
| 36x12 | 2.445 | CFM | 978 | 1223 | 1467 | 1712 | 1956 | 2445 | 2934 | 3423 |
| 36x14 | 2.864 | CFM | 1146 | 1432 | 1718 | 2005 | 2291 | 2864 | 3437 | 4010 |
| 36x16 | 3.283 | CFM | 1313 | 1641 | 1970 | 2298 | 2626 | 3283 | 3939 | 4596 |
| 36x20 | 4.120 | CFM | 1648 | 2060 | 2472 | 2884 | 3296 | 4120 | 4944 | 5768 |
| 36x24 | 4.958 | CFM | 1983 | 2479 | 2975 | 3470 | 3966 | 4958 | 5949 | 6941 |
| 36x30 | 6.214 | CFM | 2486 | 3107 | 3729 | 4350 | 4971 | 6214 | 7457 | 8700 |

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| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 36x36 | 7.471 | CFM | 2988 | 3735 | 4482 | 5229 | 5976 | 7471 | 8965 | 10459 |

Performance Notes:

1) Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air

2) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006