## AFB Performance Data

### IP/METRIC DATA: AFB SERIES

| Unit Size | IP Data | | | | | | NC | Metric Data | | | | | | Octave Band, dB | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Neck Vel | Air Flow | Pt | Ps | Near $T_{50}$ @ 4 ft | $T_{50}$ @ Floor | | Neck Vel | Air Flow | Pt | Ps | Near $T_{.25}$ @ 1.1 m | $T_{.25}$ @ Floor | | | | | | |
| | FPM | CFM | "WG | "WG | ft | ft | | m/s | L/s | Pa | Pa | m | m | 2 | 3 | 4 | 5 | 6 | 7 |
| 13"x24" | 500 | 174 | .053 | 0.038 | 0 | 5 | 15 | 2.54 | 82 | 13.2 | 9.4 | 0.1 | 1.4 | 24 | 27 | 27 | 20 | - | - |
| | 650 | 227 | .090 | 0.064 | 0 | 6 | 24 | 3.30 | 107 | 22.4 | 15.8 | 0.1 | 1.8 | 29 | 33 | 33 | 29 | 19 | 16 |
| | 775 | 270 | .128 | 0.090 | 1 | 7 | 30 | 3.94 | 128 | 31.8 | 22.5 | 0.2 | 2.2 | 32 | 37 | 37 | 35 | 27 | 22 |
| | 900 | 314 | .172 | 0.122 | 1 | 8 | 35 | 4.57 | 148 | 42.9 | 30.3 | 0.2 | 2.5 | 35 | 40 | 41 | 40 | 34 | 27 |
| 13"x48" | 600 | 209 | .030 | 0.008 | 0 | 6 | 11 | 3.05 | 99 | 7.6 | 2.0 | 0.1 | 1.7 | 21 | 24 | 23 | 14 | - | - |
| | 800 | 279 | .054 | 0.014 | 1 | 7 | 20 | 4.06 | 132 | 13.5 | 3.5 | 0.2 | 2.2 | 27 | 30 | 30 | 24 | 15 | - |
| | 1000 | 349 | .084 | 0.022 | 1 | 9 | 26 | 5.08 | 165 | 21.0 | 5.5 | 0.3 | 2.8 | 31 | 34 | 36 | 31 | 24 | 14 |
| | 1300 | 453 | .143 | 0.037 | 2 | 12 | 34 | 6.60 | 214 | 35.5 | 9.3 | 0.5 | 3.6 | 36 | 39 | 42 | 40 | 35 | 25 |
| 16"x48" | 500 | 273 | .022 | 0.007 | 1 | 4 | 14 | 2.54 | 129 | 5.5 | 1.6 | 0.2 | 1.2 | 22 | 21 | 17 | 12 | - | - |
| | 700 | 382 | .043 | 0.013 | 1 | 6 | 21 | 3.56 | 180 | 10.8 | 3.2 | 0.3 | 1.7 | 28 | 28 | 26 | 22 | 11 | 15 |
| | 1000 | 545 | .088 | 0.026 | 2 | 8 | 29 | 5.08 | 257 | 22.0 | 6.5 | 0.7 | 2.5 | 33 | 36 | 36 | 33 | 26 | 23 |
| | 1300 | 709 | .149 | 0.044 | 4 | 11 | 35 | 6.60 | 334 | 37.2 | 10.9 | 1.2 | 3.2 | 37 | 41 | 43 | 41 | 37 | 29 |
| 19"x60" | 600 | 471 | .032 | 0.009 | 1 | 7 | 15 | 3.05 | 222 | 7.9 | 2.3 | 0.4 | 2.1 | 22 | 22 | 20 | 12 | - | - |
| | 800 | 628 | .056 | 0.016 | 2 | 9 | 22 | 4.06 | 296 | 14.0 | 4.0 | 0.8 | 2.8 | 27 | 28 | 27 | 23 | 13 | 16 |
| | 1100 | 863 | .106 | 0.031 | 5 | 13 | 30 | 5.59 | 407 | 26.4 | 7.7 | 1.4 | 3.8 | 33 | 36 | 36 | 34 | 28 | 23 |
| | 1400 | 1099 | .172 | 0.050 | 8 | 16 | 36 | 7.11 | 519 | 42.8 | 12.4 | 2.3 | 4.9 | 38 | 41 | 42 | 43 | 39 | 29 |
| 23"x48" | 400 | 558 | .032 | 0.022 | 1 | 6 | 14 | 2.03 | 263 | 7.9 | 5.5 | 0.3 | 1.9 | 20 | 20 | 14 | - | - | - |
| | 600 | 837 | .072 | 0.049 | 2 | 9 | 23 | 3.05 | 395 | 17.9 | 12.3 | 0.7 | 2.8 | 27 | 30 | 27 | 22 | 13 | 14 |
| | 800 | 1116 | .127 | 0.088 | 4 | 12 | 29 | 4.06 | 527 | 31.7 | 21.8 | 1.3 | 3.7 | 33 | 36 | 35 | 33 | 26 | 22 |
| | 1000 | 1395 | .199 | 0.137 | 7 | 15 | 34 | 5.08 | 658 | 49.6 | 34.1 | 2.0 | 4.6 | 37 | 41 | 42 | 41 | 37 | 28 |
| 23"x71" | 600 | 837 | .033 | 0.010 | 5 | 10 | 14 | 3.05 | 395 | 8.1 | 2.5 | 1.4 | 3.1 | 29 | 26 | 22 | 18 | - | - |
| | 750 | 1046 | .051 | 0.016 | 6 | 13 | 21 | 3.81 | 494 | 12.7 | 4.0 | 1.8 | 3.8 | 32 | 31 | 29 | 26 | 16 | 16 |
| | 900 | 1256 | .074 | 0.023 | 7 | 15 | 27 | 4.57 | 593 | 18.3 | 5.7 | 2.1 | 4.6 | 35 | 35 | 34 | 32 | 24 | 21 |
| | 1100 | 1535 | .110 | 0.034 | 8 | 18 | 34 | 5.59 | 724 | 27.4 | 8.6 | 2.6 | 5.6 | 39 | 39 | 40 | 39 | 33 | 28 |
| 28"x71" | 375 | 818 | .021 | 0.012 | 5 | 10 | 15 | 1.91 | 386 | 5.2 | 3.0 | 1.5 | 3.0 | 32 | 20 | 11 | - | - | - |
| | 600 | 1308 | .053 | 0.031 | 8 | 16 | 24 | 3.05 | 617 | 13.2 | 7.6 | 2.4 | 4.7 | 38 | 30 | 26 | 23 | 13 | 19 |
| | 800 | 1744 | .094 | 0.054 | 10 | 21 | 30 | 4.06 | 823 | 23.5 | 13.5 | 3.1 | 6.3 | 41 | 37 | 35 | 33 | 26 | 25 |
| | 1000 | 2180 | .147 | 0.085 | 13 | 26 | 34 | 5.08 | 1029 | 36.7 | 21.1 | 3.9 | 7.9 | 44 | 42 | 42 | 41 | 36 | 29 |
| 33"x71" | 450 | 1533 | .045 | 0.032 | 7 | 13 | 14 | 2.29 | 723 | 11.1 | 7.9 | 2.2 | 3.8 | 40 | 31 | 21 | 15 | - | - |
| | 650 | 2214 | .093 | 0.067 | 10 | 18 | 25 | 3.30 | 1045 | 23.1 | 16.6 | 3.2 | 5.6 | 45 | 38 | 34 | 29 | 18 | 17 |
| | 800 | 2725 | .141 | 0.101 | 13 | 22 | 32 | 4.06 | 1286 | 35.0 | 25.1 | 3.9 | 6.8 | 47 | 41 | 41 | 37 | 27 | 21 |
| | 900 | 3066 | .178 | 0.128 | 15 | 25 | 35 | 4.57 | 1447 | 44.4 | 31.8 | 4.4 | 7.7 | 49 | 44 | 45 | 42 | 33 | 24 |
| 39"x71" | 375 | 2093 | .062 | 0.054 | 13 | 19 | 15 | 1.91 | 988 | 15.6 | 13.4 | 4.1 | 5.7 | 41 | 27 | 20 | 11 | - | - |
| | 500 | 2790 | .111 | 0.095 | 18 | 25 | 24 | 2.54 | 1317 | 27.6 | 23.8 | 5.5 | 7.6 | 47 | 35 | 31 | 25 | 17 | 14 |
| | 600 | 3348 | .160 | 0.137 | 22 | 30 | 30 | 3.05 | 1580 | 39.8 | 34.2 | 6.6 | 9.1 | 52 | 40 | 39 | 34 | 26 | 18 |
| | 700 | 3907 | .218 | 0.187 | 25 | 35 | 35 | 3.56 | 1844 | 54.2 | 46.6 | 7.7 | 10.6 | 55 | 45 | 45 | 42 | 34 | 22 |

*NOTES: Throw values are given for terminal velocities of 50 fpm (0.25 m/s). Throw values are given for -6°F (-3°C) ΔT conditions. N.C. values are based on Octave Band 2 - 7 sound power levels minus a room absorption of 4dB. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI / ASHRAE Standard 70-1991.*