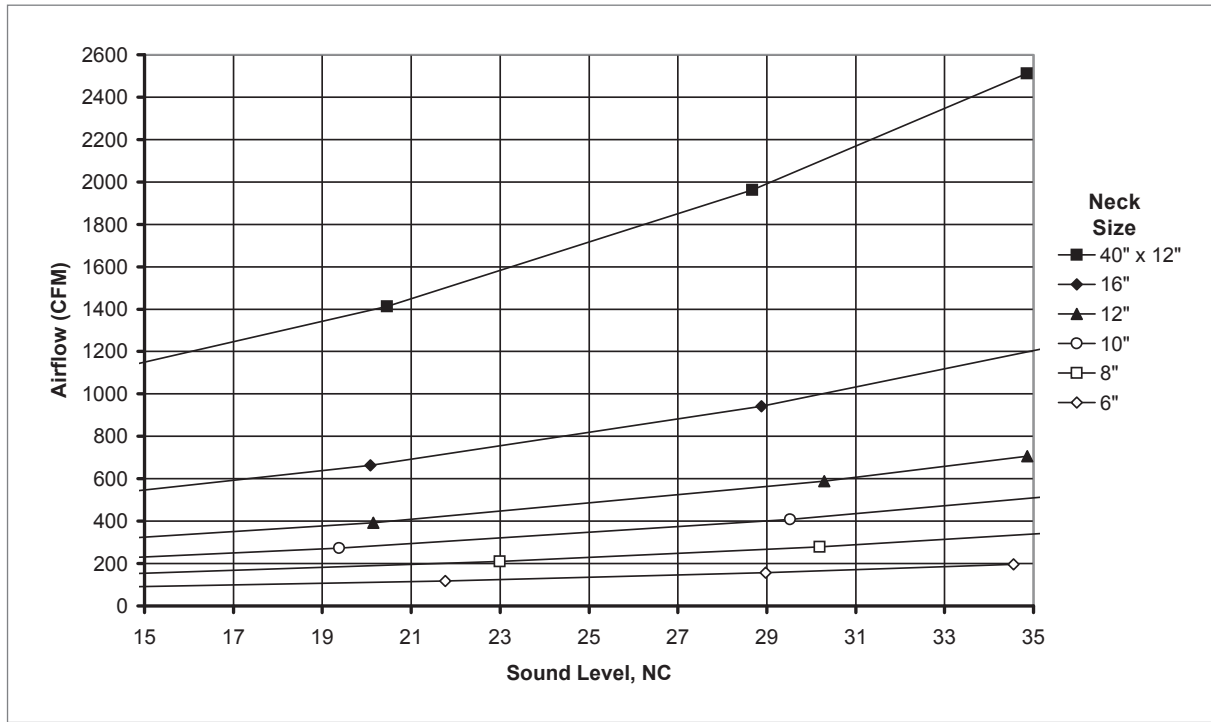


AFA Reference Chart

AIRFLOW VS. NC LEVEL: AFA SERIES



DISPLACEMENT VENTILATION

AFA Performance Data

IP/METRIC DATA: AFA 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 | 2 | 3 | 4 | 5 | 6 | 7 | |
| | FPM | CFM | "WG | "WG | ft | ft | | m/s | L/s | Pa | Pa | m | m | | | | | | | |
| 22" x 21" | 400 | 78 | .032 | 0.022 | 1 | 5 | 12 | 2.03 | 37 | 8.0 | 5.6 | 0.3 | 1.7 | 24 | 24 | 21 | - | - | - | |
| | 600 | 118 | .073 | 0.050 | 2 | 8 | 22 | 3.05 | 56 | 18.1 | 12.5 | 0.7 | 2.5 | 31 | 32 | 31 | 23 | 11 | 12 | |
| | 800 | 157 | .129 | 0.089 | 4 | 11 | 29 | 4.06 | 74 | 32.2 | 22.2 | 1.2 | 3.3 | 37 | 37 | 38 | 34 | 23 | 16 | |
| | 1000 | 196 | .202 | 0.139 | 6 | 14 | 35 | 5.08 | 93 | 50.2 | 34.7 | 1.9 | 4.2 | 41 | 42 | 44 | 42 | 32 | 19 | |
| 22" x 45" | 400 | 140 | .034 | 0.024 | 1 | 7 | 13 | 2.03 | 66 | 8.4 | 6.0 | 0.4 | 2.2 | 24 | 24 | 22 | - | - | - | |
| | 600 | 209 | .076 | 0.054 | 3 | 11 | 23 | 3.05 | 99 | 19.0 | 13.4 | 0.9 | 3.3 | 31 | 33 | 32 | 25 | 14 | 15 | |
| | 800 | 279 | .136 | 0.096 | 5 | 15 | 30 | 4.06 | 132 | 33.8 | 23.8 | 1.6 | 4.4 | 37 | 38 | 39 | 35 | 25 | 19 | |
| | 1000 | 349 | .212 | 0.150 | 8 | 18 | 36 | 5.08 | 165 | 52.8 | 37.3 | 2.5 | 5.5 | 41 | 43 | 45 | 43 | 34 | 22 | |
| 26" x 53" | 375 | 204 | .032 | 0.023 | 1 | 9 | 12 | 1.91 | 96 | 7.9 | 5.7 | 0.4 | 2.6 | 23 | 24 | 20 | - | - | - | |
| | 500 | 273 | .056 | 0.041 | 3 | 11 | 19 | 2.54 | 129 | 14.0 | 10.1 | 0.8 | 3.5 | 28 | 30 | 28 | 19 | - | 14 | |
| | 750 | 409 | .127 | 0.092 | 6 | 17 | 30 | 3.81 | 193 | 31.5 | 22.8 | 1.8 | 5.2 | 36 | 38 | 38 | 33 | 24 | 20 | |
| | 950 | 518 | .203 | 0.147 | 9 | 22 | 35 | 4.83 | 244 | 50.6 | 36.6 | 2.8 | 6.6 | 40 | 42 | 44 | 42 | 34 | 24 | |
| 33" x 63" | 350 | 275 | .030 | 0.022 | 2 | 10 | 11 | 1.78 | 130 | 7.4 | 5.5 | 0.5 | 2.9 | 21 | 23 | 19 | - | - | 11 | |
| | 500 | 392 | .060 | 0.045 | 3 | 14 | 20 | 2.54 | 185 | 15.0 | 11.1 | 0.9 | 4.2 | 28 | 30 | 28 | 20 | - | 16 | |
| | 750 | 589 | .136 | 0.101 | 7 | 20 | 30 | 3.81 | 278 | 33.8 | 25.0 | 2.1 | 6.2 | 36 | 38 | 38 | 34 | 26 | 22 | |
| | 900 | 706 | .195 | 0.145 | 10 | 25 | 35 | 4.57 | 333 | 48.6 | 36.1 | 3.1 | 7.5 | 39 | 42 | 43 | 41 | 33 | 25 | |
| 39" x 79" | 350 | 488 | .035 | 0.027 | 2 | 13 | 12 | 1.78 | 230 | 8.6 | 6.7 | 0.6 | 3.9 | 21 | 24 | 20 | - | - | 14 | |
| | 475 | 663 | .064 | 0.050 | 4 | 17 | 20 | 2.41 | 313 | 15.8 | 12.3 | 1.1 | 5.3 | 27 | 30 | 28 | 19 | - | 18 | |
| | 675 | 942 | .128 | 0.100 | 8 | 25 | 29 | 3.43 | 444 | 32.0 | 24.9 | 2.3 | 7.5 | 34 | 37 | 36 | 32 | 24 | 23 | |
| | 875 | 1221 | .216 | 0.168 | 13 | 32 | 35 | 4.45 | 576 | 53.8 | 41.9 | 3.9 | 9.7 | 39 | 42 | 43 | 41 | 34 | 27 | |
| 47" x 79" | 325 | 1020 | .042 | 0.036 | 3 | 18 | 12 | 1.65 | 481 | 10.5 | 8.8 | 0.8 | 5.4 | 20 | 24 | 19 | - | - | 17 | |
| | 450 | 1413 | .081 | 0.068 | 5 | 25 | 20 | 2.29 | 667 | 20.1 | 17.0 | 1.5 | 7.5 | 26 | 30 | 27 | 19 | 11 | 21 | |
| | 625 | 1962 | .156 | 0.131 | 10 | 34 | 29 | 3.18 | 926 | 38.8 | 32.7 | 3.0 | 10.4 | 32 | 37 | 35 | 31 | 24 | 26 | |
| | 800 | 2511 | .255 | 0.215 | 16 | 44 | 35 | 4.06 | 1185 | 63.5 | 53.6 | 4.8 | 13.3 | 37 | 42 | 42 | 40 | 34 | 30 | |

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.

AFA

© KRUEGER 2012