

PERFORMANCE DATA

| Size | Neck Velocity (fpm) | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 1600 |
|------|------------------------------|---|------|------|------|-------|-------|-------|-------|-------|-------|--------|
| | Velocity Pressure (in. w.g.) | | .010 | .016 | .023 | .031 | .040 | .051 | .063 | .090 | .122 | .160 |
| 10 | Total Pressure (in. w.g.) | V | .013 | .021 | .030 | .040 | .053 | .067 | .082 | .118 | .160 | .210 |
| | | H | .023 | .036 | .052 | .070 | .091 | .115 | .143 | .205 | .280 | .358 |
| | Flow Rate (cfm) | | 220 | 270 | 330 | 380 | 435 | 490 | 545 | 655 | 765 | 870 |
| | Radius of Diffusion (ft.) | H | 4 | 5 | 6 | 7 | 8 | 10 | 10 | 12 | 14 | 15 |
| | Throw (ft.) | V | 4-14 | 5-17 | 6-19 | 7-23 | 9-28 | 10-31 | 11-36 | 16-52 | 19-63 | 22-72 |
| | Sound (NC) | | 15 | 19 | 23 | 27 | 33 | 37 | 40 | 43 | 47 | 53 |
| 12 | Total Pressure (in. w.g.) | V | .012 | .019 | .028 | .037 | .049 | .062 | .076 | .110 | .148 | .195 |
| | | H | .020 | .032 | .046 | .062 | .080 | .102 | .125 | .180 | .245 | .318 |
| | Flow Rate (cfm) | | 315 | 390 | 470 | 550 | 630 | 705 | 785 | 940 | 1100 | 1255 |
| | Radius of Diffusion (ft.) | H | 5 | 5 | 7 | 8 | 9 | 11 | 12 | 13 | 16 | 18 |
| | Throw (ft.) | V | 4-15 | 5-17 | 6-22 | 8-25 | 9-31 | 10-34 | 11-37 | 17-55 | 21-69 | 25-81 |
| | Sound (NC) | | 15 | 19 | 23 | 27 | 33 | 37 | 39 | 45 | 51 | 54 |
| 14 | Total Pressure (in. w.g.) | V | .012 | .019 | .027 | .036 | .047 | .060 | .074 | .106 | .144 | .188 |
| | | H | .020 | .032 | .046 | .062 | .080 | .102 | .125 | .180 | .245 | .318 |
| | Flow Rate (cfm) | | 425 | 530 | 635 | 745 | 850 | 955 | 1060 | 1270 | 1490 | 1695 |
| | Radius of Diffusion (ft.) | H | 6 | 6 | 8 | 10 | 11 | 12 | 13 | 16 | 17 | 20 |
| | Throw (ft.) | V | 5-17 | 6-18 | 7-23 | 8-26 | 10-32 | 11-36 | 12-38 | 18-60 | 22-72 | 27-87 |
| | Sound (NC) | | 15 | 19 | 22 | 28 | 34 | 39 | 42 | 47 | 52 | 56 |
| 16 | Total Pressure (in. w.g.) | V | .012 | .018 | .026 | .035 | .046 | .058 | .072 | .103 | .140 | .183 |
| | | H | .020 | .032 | .046 | .062 | .080 | .102 | .125 | .180 | .245 | .318 |
| | Flow Rate (cfm) | | 560 | 700 | 840 | 980 | 1120 | 1260 | 1400 | 1680 | 1960 | 2240 |
| | Radius of Diffusion (ft.) | H | 6 | 7 | 9 | 10 | 12 | 14 | 14 | 17 | 20 | 22 |
| | Throw (ft.) | V | 5-17 | 6-19 | 7-23 | 9-29 | 10-33 | 11-36 | 12-41 | 18-62 | 23-75 | 28-94 |
| | Sound (NC) | | 16 | 19 | 23 | 28 | 32 | 38 | 42 | 47 | 51 | 55 |
| 18 | Total Pressure (in. w.g.) | V | .011 | .018 | .025 | .034 | .045 | .056 | .070 | .099 | .135 | .177 |
| | | H | .020 | .032 | .046 | .062 | .080 | .102 | .125 | .180 | .245 | .318 |
| | Flow Rate (cfm) | | 710 | 885 | 1060 | 1240 | 1420 | 1590 | 1770 | 2120 | 2480 | 2830 |
| | Radius of Diffusion (ft.) | H | 6 | 8 | 10 | 12 | 13 | 15 | 16 | 19 | 22 | 24 |
| | Throw (ft.) | V | 5-17 | 7-21 | 8-25 | 9-29 | 10-33 | 11-37 | 13-42 | 20-65 | 24-77 | 28-93 |
| | Sound (NC) | | 16 | 19 | 25 | 32 | 35 | 38 | 42 | 47 | 52 | 56 |
| 20 | Total Pressure (in. w.g.) | V | .011 | .017 | .024 | .033 | .043 | .054 | .067 | .096 | .130 | .170 |
| | | H | .019 | .030 | .043 | .058 | .076 | .096 | .120 | .170 | .235 | .305 |
| | Flow Rate (cfm) | | 875 | 1100 | 1310 | 1530 | 1750 | 1970 | 2190 | 2610 | 3060 | 3500 |
| | Radius of Diffusion (ft.) | H | 7 | 9 | 11 | 13 | 14 | 16 | 17 | 21 | 24 | 27 |
| | Throw (ft.) | V | 6-17 | 7-22 | 8-25 | 9-30 | 11-34 | 12-38 | 13-43 | 20-67 | 25-80 | 30-98 |
| | Sound (NC) | | 16 | 19 | 26 | 33 | 36 | 39 | 43 | 48 | 52 | 56 |
| 24 | Total Pressure (in. w.g.) | V | .011 | .017 | .023 | .031 | .042 | .053 | .065 | .094 | .128 | .167 |
| | | H | .019 | .030 | .043 | .058 | .076 | .096 | .120 | .170 | .235 | .305 |
| | Flow Rate (cfm) | | 1260 | 1570 | 1880 | 2200 | 2510 | 2820 | 3140 | 3770 | 4400 | 5020 |
| | Radius of Diffusion (ft.) | H | 8 | 10 | 13 | 15 | 16 | 19 | 21 | 24 | 28 | 31 |
| | Throw (ft.) | V | 6-18 | 7-23 | 8-27 | 10-31 | 11-36 | 12-39 | 14-46 | 22-70 | 26-83 | 32-105 |
| | Sound (NC) | | 19 | 23 | 27 | 33 | 36 | 39 | 43 | 48 | 54 | 59 |
| 30 | Total Pressure (in. w.g.) | V | .010 | .016 | .023 | .031 | .041 | .052 | .064 | .092 | .125 | .162 |
| | | H | .020 | .031 | .045 | .060 | .078 | .100 | .123 | .176 | .240 | .313 |
| | Flow Rate (cfm) | | 1960 | 2450 | 2940 | 3430 | 3920 | 4410 | 4900 | 5880 | 6860 | 7840 |
| | Radius of Diffusion (ft.) | H | 10 | 12 | 15 | 18 | 20 | 23 | 24 | 29 | 34 | 38 |
| | Throw (ft.) | V | 6-19 | 7-23 | 9-27 | 10-32 | 11-36 | 13-42 | 14-47 | 22-72 | 27-85 | 33-110 |
| | Sound (NC) | | 15 | 21 | 26 | 29 | 33 | 36 | 38 | 47 | 50 | |
| 36 | Total Pressure | V | .010 | .016 | .023 | .031 | .041 | .052 | .064 | .092 | .125 | .162 |
| | | H | .015 | .024 | .036 | .047 | .062 | .079 | .098 | .139 | .189 | .247 |
| | Flow Rate, cfm | | 2820 | 3520 | 4230 | 4930 | 5630 | 6340 | 7040 | 8450 | 9850 | 11260 |
| | Radius of Diffusion, ft | H | 11 | 14 | 17 | 20 | 23 | 26 | 29 | 34 | 39 | 46 |
| | Projection, ft | V | 6-19 | 7-24 | 9-29 | 10-33 | 11-37 | 13-43 | 15-61 | 24-78 | 27-98 | 35-115 |
| | NC | | 23 | 29 | 33 | 37 | 41 | 44 | 46 | 51 | 55 | 58 |

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70 – 2006 Method of Testing for Rating the Performance of Air Outlets and Inlets.
2. Airflow is in cubic feet per minute.
3. All pressures are in in. w.g.
4. Vertical Projections are to terminal velocities of 50 fpm. Minimum projections are with a 40 °F heating temperature differential and maximum projections are with a 20 °F cooling temperature differential.
5. Horizontal throws are to a terminal velocity of 50 fpm with a 20 °F cooling temperature differential.
6. NC values are based on a room absorption of 10 dB re 10⁻¹² watts and one diffuser.
7. NC Values based on a horizontal pattern (center closed). For vertical pattern (center open) use the following correction.

| Size | Correction |
|---------|---------------|
| 10 - 24 | subtract 3 NC |
| 30,36 | no correction |
8. Blanks (-) indicate an NC level below 15.