

Perforated PRE/PRE7, PRT, PRN Series

| Nominal Duct Size (in.) | A _k | Core Area sq. ft | Core Velocity Velocity Pressure Neg. Static Pressure | NC 10 | | | | NC 20 | | NC 30 | | NC 40 |
|-------------------------|----------------|------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|----------------------|
| | | | | 300 0.010 0.051 | 400 0.016 0.079 | 500 0.022 0.114 | 600 0.031 0.156 | 700 0.040 0.203 | 800 0.062 0.318 | 1000 0.090 0.458 | 1200 0.122 0.623 | 1400 0.12 0.62 |
| 6x6 | 0.20 | 0.19 | Airflow, cfm NC | 57 - | 76 - | 95 - | 114 - | 133 13 | 152 16 | 190 21 | 228 26 | 266 30 |
| 8x6 | 0.27 | 0.2 | Airflow, cfm NC | 78 - | 104 - | 130 - | 156 - | 182 14 | 208 17 | 260 22 | 312 27 | 364 30 |
| 10x6 | 0.33 | 0.34 | Airflow, cfm NC | 102 - | 136 - | 170 - | 204 11 | 238 15 | 272 18 | 340 24 | 408 28 | 476 32 |
| 8x8 | 0.36 | 0.37 | Airflow, cfm NC | 111 - | 148 - | 185 - | 222 12 | 259 15 | 296 19 | 370 24 | 444 29 | 518 33 |
| 12x6 | 0.40 | 0.41 | Airflow, cfm NC | 123 - | 164 - | 205 - | 246 12 | 287 16 | 328 19 | 410 25 | 492 29 | 574 33 |
| 12x8 | 0.53 | 0.75 | Airflow, cfm NC | 171 - | 228 - | 285 - | 342 14 | 399 17 | 456 21 | 570 27 | 684 31 | 798 34 |
| 10x10 | 0.56 | 0.59 | Airflow, cfm NC | 177 - | 236 - | 295 - | 354 14 | 413 18 | 472 21 | 590 26 | 708 31 | 826 35 |
| 18x6 | 0.60 | 0.63 | Airflow, cfm NC | 189 - | 252 - | 315 - | 378 15 | 441 18 | 504 22 | 630 27 | 756 31 | 882 35 |
| 12x10 | 0.67 | 0.72 | Airflow, cfm NC | 216 - | 288 - | 360 - | 432 15 | 504 18 | 576 22 | 720 27 | 864 32 | 1008 35 |
| 12x12 | 0.80 | 0.88 | Airflow, cfm NC | 264 - | 352 - | 440 11 | 528 15 | 616 19 | 704 23 | 880 28 | 1056 31 | 1232 36 |
| 14x14 | 1.09 | 1.22 | Airflow, cfm NC | 366 - | 488 - | 610 12 | 732 16 | 854 21 | 976 24 | 1220 29 | 1464 34 | 1708 38 |
| 18x12 | 1.20 | 1.35 | Airflow, cfm NC | 405 - | 540 - | 675 12 | 810 17 | 945 21 | 1080 24 | 1350 30 | 1620 34 | 1890 38 |
| 24x10 | 1.33 | 1.49 | Airflow, cfm NC | 447 - | 596 - | 745 12 | 894 18 | 1043 22 | 1192 25 | 1490 30 | 1788 35 | 2086 39 |
| 16x16 | 1.42 | 1.62 | Airflow, cfm NC | 486 - | 648 - | 810 14 | 972 18 | 1134 22 | 1296 25 | 1620 31 | 1944 35 | 2268 39 |
| 24x12 | 1.60 | 1.82 | Airflow, cfm NC | 546 - | 728 - | 910 14 | 1092 19 | 1274 22 | 1456 26 | 1820 30 | 2184 36 | 2548 39 |
| 18x18 | 1.80 | 2.07 | Airflow, cfm NC | 621 - | 828 - | 1035 15 | 1242 19 | 1449 23 | 1656 26 | 2070 32 | 2484 36 | 2898 40 |
| 30x12 | 2 | 2.29 | Airflow, cfm NC | 687 - | 916 - | 1145 15 | 1374 20 | 1603 23 | 1832 27 | 2290 32 | 2748 37 | 3206 40 |
| 20x20 | 2.22 | 2.57 | Airflow, cfm NC | 771 - | 1028 - | 1285 16 | 1542 20 | 1799 24 | 2056 27 | 2570 33 | 3084 37 | 3598 41 |
| 22x22 | 2.69 | 3.14 | Airflow, cfm NC | 942 11 | 1256 11 | 1570 17 | 1884 21 | 2198 25 | 2512 28 | 3140 34 | 3768 38 | 4396 42 |
| 30x18 | 3 | 3.5 | Airflow, cfm NC | 1050 - | 1400 12 | 1750 17 | 2100 21 | 2450 25 | 2800 29 | 3500 34 | 4200 38 | 4900 42 |
| 24x24 | 3.20 | 3.75 | Airflow, cfm NC | 1125 - | 1500 12 | 1875 17 | 2250 22 | 2625 26 | 3000 29 | 3750 34 | 4500 39 | 5250 43 |
| 36x18 | 3.60 | 4.22 | Airflow, cfm NC | 1266 - | 1688 12 | 2110 18 | 2532 22 | 2954 26 | 3376 29 | 4220 35 | 5064 39 | 5908 43 |
| 26x26 | 3.76 | 4.47 | Airflow, cfm NC | 1341 - | 1788 12 | 2235 18 | 2682 22 | 3129 26 | 3576 29 | 4025 35 | 4470 39 | 5364 43 |
| 30x24 | 4 | 4.71 | Airflow, cfm NC | 1413 - | 1884 13 | 2355 18 | 2826 23 | 3297 27 | 3768 30 | 4710 35 | 5652 40 | 6594 44 |

Static pressures are negative, in inches of water,

SYMBOLS

NC based on room absorption of 10dB

A_k Outlet area in Sq. Feet

Perforated PRE/PRE7, PRT, PRN Series

| Nominal Duct Size (in.) | A _k | Core Area sq. ft | Core Velocity Velocity Pressure Neg. Static Pressure | NC 10 | | NC 20 | | NC 30 | | NC 40 | | NC 50 |
|-------------------------|----------------|------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|----------------------|
| | | | | 300 0.010 0.051 | 400 0.016 0.079 | 500 0.022 0.114 | 600 0.031 0.156 | 700 0.040 0.203 | 800 0.062 0.318 | 1000 0.090 0.458 | 1200 0.122 0.623 | 1400 0.12 0.62 |
| 28x28 | 4.36 | 5.16 | Airflow, cfm NC | 1548 - | 2064 13 | 2580 19 | 3096 22 | 3612 27 | 4128 30 | 5160 36 | 6192 40 | 7224 44 |
| 36x24 | 4.8 | 5.66 | Airflow, cfm NC | 1698 - | 2264 13 | 2830 19 | 3396 24 | 3962 27 | 4528 31 | 5660 36 | 6792 41 | 7924 44 |
| 30x30 | 5 | 5.94 | Airflow, cfm NC | 1782 - | 2376 14 | 2970 19 | 3564 22 | 4158 28 | 4752 31 | 5940 36 | 7128 41 | 8316 45 |
| 32x32 | 5.69 | 6.78 | Airflow, cfm NC | 2034 - | 2712 14 | 3390 20 | 4068 24 | 4746 28 | 5424 31 | 6780 37 | 8136 41 | 9492 45 |
| 48x24 | 6.4 | 7.63 | Airflow, cfm NC | 2289 - | 3052 15 | 3815 20 | 4578 25 | 5341 29 | 6104 32 | 7630 38 | 9156 42 | 10682 46 |
| 36x36 | 7.4 | 8.63 | Airflow, cfm NC | 2589 - | 3452 15 | 4315 22 | 5178 25 | 6041 29 | 6904 32 | 8630 38 | 10356 42 | 12082 46 |
| 38x38 | 8.02 | 9.64 | Airflow, cfm NC | 2892 - | 3856 16 | 4820 21 | 5784 26 | 6748 30 | 7712 33 | 9640 38 | 11568 43 | 13496 47 |
| 40x40 | 8.89 | 10.70 | Airflow, cfm NC | 3210 - | 4280 16 | 5350 22 | 6420 26 | 7490 30 | 8560 34 | 10700 39 | 12840 43 | 14980 47 |
| 42x42 | 9.8 | 11.82 | Airflow, cfm NC | 3546 - | 4728 17 | 5910 22 | 7092 27 | 8274 31 | 9456 34 | 11820 39 | 14184 43 | 16548 48 |
| 44x44 | 10.76 | 12.99 | Airflow, cfm NC | 3897 - | 5196 17 | 6495 23 | 7794 27 | 9093 31 | 10392 34 | 12990 40 | 15588 44 | 18186 48 |
| 46x46 | 11.76 | 14.22 | Airflow, cfm NC | 4266 11 | 5688 18 | 7110 23 | 8532 28 | 9954 31 | 11376 35 | 14220 40 | 17064 45 | 19908 48 |
| 48x48 | 12.80 | 15.50 | Airflow, cfm NC | 4650 11 | 6200 18 | 7750 23 | 9300 28 | 10850 32 | 12400 35 | 15500 40 | 18600 45 | 21700 49 |

Static pressures are negative, in inches of water,

SYMBOLS

NC based on room absorption of 10dB

A_k Outlet area in Sq. Feet