

SPECIALIZED GRILLES

L Specialized Grilles | Door Return | Performance Data

Performance Data

T-700 and CT-700 Door Grilles

Performance based on nominal sizes shown in bold.

| Nominal Duct Size (in) | Nominal Duct Area sq. ft | Core Area sq. ft | Core Velocity Velocity Pressure CT-700 Static Pressure T-700 Static Pressure | NC 20 | | | | NC 30 | | | | NC 40 | | | | | | | | | | |
|------------------------|--------------------------|------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----|
| | | | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 0.003 | 0.004 | 0.006 | 0.008 | | | | | | |
| | | | | 0.028 | 0.044 | 0.063 | 0.086 | 0.113 | 0.143 | 0.176 | 0.213 | 0.254 | 0.027 | 0.043 | 0.062 | 0.084 | 0.110 | 0.139 | 0.172 | 0.208 | 0.247 | |
| 6x6 | 0.25 | 0.19 | Airflow, cfm | 38 | 48 | 57 | 67 | 76 | 86 | 95 | 105 | 114 | NC (Noise Criteria) | 15 | 20 | 24 | 27 | 30 | 32 | 34 | 36 | 38 |
| 8x6 | 0.33 | 0.26 | Airflow, cfm | 52 | 65 | 78 | 91 | 104 | 117 | 130 | 143 | 156 | NC (Noise Criteria) | 16 | 21 | 25 | 28 | 31 | 33 | 36 | 38 | 39 |
| 10x6 | 0.42 | 0.34 | Airflow, cfm | 68 | 85 | 102 | 119 | 136 | 153 | 170 | 187 | 204 | NC (Noise Criteria) | 18 | 22 | 26 | 29 | 32 | 35 | 37 | 39 | 41 |
| 8x8 | 0.44 | 0.37 | Airflow, cfm | 74 | 93 | 111 | 130 | 148 | 167 | 185 | 204 | 222 | NC (Noise Criteria) | 18 | 23 | 26 | 30 | 32 | 35 | 37 | 39 | 41 |
| 12x6 | 0.50 | 0.41 | Airflow, cfm | 82 | 103 | 123 | 144 | 164 | 185 | 205 | 226 | 246 | NC (Noise Criteria) | 18 | 23 | 27 | 30 | 33 | 35 | 38 | 40 | 41 |
| 14x6 | 0.58 | 0.48 | Airflow, cfm | 96 | 120 | 144 | 168 | 192 | 216 | 240 | 264 | 288 | NC (Noise Criteria) | 19 | 24 | 28 | 32 | 34 | 37 | 39 | 41 | 43 |
| 16x6 | | | Airflow, cfm | 114 | 143 | 171 | 200 | 228 | 257 | 285 | 314 | 342 | NC (Noise Criteria) | 20 | 24 | 28 | 31 | 34 | 36 | 38 | 40 | 42 |
| 10x10 | 0.69 | 0.59 | Airflow, cfm | 118 | 148 | 177 | 207 | 236 | 266 | 295 | 325 | 354 | NC (Noise Criteria) | 20 | 25 | 28 | 32 | 34 | 37 | 39 | 41 | 43 |
| 18x6 | 0.75 | 0.63 | Airflow, cfm | 126 | 158 | 189 | 221 | 252 | 284 | 315 | 347 | 378 | NC (Noise Criteria) | 20 | 25 | 29 | 32 | 35 | 37 | 39 | 41 | 43 |
| 20x6 | | | Airflow, cfm | 144 | 180 | 216 | 252 | 288 | 324 | 360 | 396 | 432 | NC (Noise Criteria) | 21 | 25 | 29 | 33 | 35 | 38 | 40 | 42 | 44 |
| 12x10 | 0.83 | 0.72 | Airflow, cfm | 154 | 193 | 231 | 270 | 308 | 347 | 385 | 424 | 462 | NC (Noise Criteria) | 21 | 26 | 30 | 33 | 36 | 38 | 40 | 42 | 44 |
| 24x6 | | | Airflow, cfm | 176 | 220 | 264 | 308 | 352 | 396 | 440 | 484 | 528 | NC (Noise Criteria) | 22 | 26 | 30 | 33 | 36 | 39 | 41 | 43 | 45 |
| 12x12 | 1.00 | 0.88 | Airflow, cfm | 222 | 278 | 333 | 389 | 444 | 500 | 555 | 611 | 666 | NC (Noise Criteria) | 23 | 27 | 31 | 34 | 37 | 40 | 42 | 44 | 46 |
| 18x10 | 1.25 | 1.11 | Airflow, cfm | 244 | 305 | 366 | 437 | 488 | 549 | 610 | 671 | 732 | NC (Noise Criteria) | 23 | 28 | 32 | 35 | 38 | 40 | 42 | 44 | 46 |
| 14x14 | 1.36 | 1.22 | Airflow, cfm | 270 | 338 | 405 | 473 | 540 | 608 | 675 | 743 | 810 | NC (Noise Criteria) | 24 | 28 | 32 | 35 | 38 | 41 | 43 | 45 | 47 |
| 18x12 | 1.50 | 1.35 | Airflow, cfm | 274 | 343 | 411 | 480 | 548 | 617 | 685 | 754 | 822 | NC (Noise Criteria) | 24 | 28 | 32 | 35 | 38 | 41 | 43 | 45 | 47 |
| 22x10 | 1.53 | 1.37 | Airflow, cfm | 298 | 373 | 447 | 522 | 596 | 671 | 745 | 820 | 894 | NC (Noise Criteria) | 24 | 28 | 32 | 35 | 38 | 41 | 43 | 45 | 47 |
| 24x10 | 1.67 | 1.49 | Airflow, cfm | 318 | 398 | 477 | 557 | 636 | 716 | 795 | 875 | 954 | NC (Noise Criteria) | 24 | 29 | 33 | 36 | 39 | 41 | 43 | 45 | 47 |
| 18x14 | 1.75 | 1.59 | Airflow, cfm | 324 | 405 | 486 | 567 | 648 | 729 | 810 | 891 | 972 | NC (Noise Criteria) | 24 | 29 | 33 | 36 | 39 | 41 | 44 | 46 | 47 |
| 16x16 | 1.78 | 1.62 | Airflow, cfm | 364 | 455 | 546 | 637 | 728 | 819 | 910 | 1001 | 1092 | NC (Noise Criteria) | 25 | 30 | 33 | 37 | 39 | 42 | 44 | 46 | 48 |
| 18x18 | 2.25 | 2.07 | Airflow, cfm | 414 | 518 | 621 | 725 | 828 | 932 | 1035 | 1139 | 1242 | NC (Noise Criteria) | 25 | 30 | 34 | 37 | 40 | 42 | 45 | 47 | 48 |
| 24x14 | 2.33 | 2.14 | Airflow, cfm | 428 | 535 | 642 | 749 | 856 | 963 | 1070 | 1177 | 1284 | NC (Noise Criteria) | 26 | 30 | 34 | 37 | 40 | 42 | 45 | 47 | 49 |
| 30x12 | 2.50 | 2.29 | Airflow, cfm | 458 | 573 | 687 | 802 | 916 | 1031 | 1145 | 1260 | 1374 | NC (Noise Criteria) | 26 | 31 | 34 | 38 | 40 | 43 | 45 | 47 | 49 |
| 24x16 | 2.67 | 2.46 | Airflow, cfm | 493 | 615 | 738 | 861 | 984 | 1107 | 1230 | 1353 | 1476 | NC (Noise Criteria) | 26 | 31 | 35 | 38 | 41 | 43 | 45 | 47 | 49 |
| 20x20 | 2.78 | 2.57 | Airflow, cfm | 514 | 643 | 771 | 900 | 1028 | 1157 | 1285 | 1414 | 1542 | NC (Noise Criteria) | 26 | 31 | 35 | 38 | 41 | 43 | 46 | 48 | 49 |
| 30x16 | 3.33 | 3.11 | Airflow, cfm | 622 | 778 | 933 | 1089 | 1244 | 1400 | 1555 | 1711 | 1866 | NC (Noise Criteria) | 27 | 32 | 36 | 39 | 42 | 44 | 46 | 48 | 50 |
| 24x20 | | | Airflow, cfm | 628 | 785 | 942 | 1099 | 1256 | 1413 | 1570 | 1727 | 1884 | NC (Noise Criteria) | 27 | 32 | 36 | 39 | 42 | 44 | 46 | 48 | 50 |
| 22x22 | 3.36 | 3.14 | Airflow, cfm | 686 | 858 | 1029 | 1201 | 1372 | 1544 | 1715 | 1887 | 2058 | NC (Noise Criteria) | 28 | 32 | 36 | 39 | 42 | 45 | 47 | 49 | 51 |
| 24x22 | 3.67 | 3.43 | Airflow, cfm | 700 | 875 | 1050 | 1225 | 1400 | 1575 | 1750 | 1925 | 2100 | NC (Noise Criteria) | 28 | 32 | 36 | 39 | 42 | 45 | 47 | 49 | 51 |
| 30x18 | 3.75 | 3.50 | Airflow, cfm | 750 | 938 | 1125 | 1313 | 1500 | 1688 | 1875 | 2063 | 2250 | NC (Noise Criteria) | 28 | 33 | 36 | 40 | 43 | 45 | 47 | 49 | 51 |
| 24x24 | 4.00 | 3.75 | Airflow, cfm | 942 | 1178 | 1413 | 1649 | 1884 | 2120 | 2355 | 2591 | 2826 | NC (Noise Criteria) | 29 | 34 | 37 | 41 | 43 | 46 | 48 | 50 | 52 |
| 30x24 | 5.00 | 4.71 | Airflow, cfm | 1032 | 1290 | 1548 | 1806 | 2064 | 2322 | 2580 | 2838 | 3096 | NC (Noise Criteria) | 29 | 34 | 38 | 41 | 44 | 46 | 49 | 51 | 52 |
| 28x28 | 5.44 | 5.16 | Airflow, cfm | 1102 | 1378 | 1653 | 1929 | 2204 | 2480 | 2755 | 3031 | 3306 | NC (Noise Criteria) | 30 | 34 | 38 | 41 | 44 | 47 | 49 | 51 | 53 |
| 30x28 | 5.83 | 5.51 | Airflow, cfm | 1188 | 1485 | 1782 | 2079 | 2376 | 2673 | 2970 | 3267 | 3564 | NC (Noise Criteria) | 30 | 35 | 38 | 42 | 44 | 47 | 49 | 51 | 53 |

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• Static pressures are negative, in inches of water, measured per ANSI/ASHRAE Standard 70-2006.

• NC based on room absorption of 10dB, re 10⁻¹² watts, measured per ANSI/ASHRAE Standard 70-2006.

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PERFORMANCE DATA

