

Models 50F & 50R Eggcrate

| Nominal Duct Size | Nominal Duct Area (m ²) | Core Area (m ²) | Core Velocity, m/s Velocity Pressure, Pa 1 x 1 x 1" Neg. Ps, Pa 1/2 x 1/2 x 1/2" Neg. Ps, Pa | NC -10 | | | NC -20 | | | NC -30 | | |
|-------------------------|---|------------------------------------|---|--------|-----|-----|--------|-----|-----|--------|------|------|
| | | | | 1.5 | 2.0 | 2.5 | 3.0 | 3.6 | 4.1 | 5.1 | 6.1 | 7.1 |
| | | | | 1 | 2 | 4 | 6 | 8 | 10 | 16 | 22 | 30 |
| | | | | 3 | 6 | 9 | 13 | 18 | 24 | 37 | 54 | 73 |
| 150mm x 150mm | 0.02 | 0.02 | Airflow, l/s | 27 | 36 | 45 | 54 | 63 | 72 | 90 | 108 | 126 |
| | | | NC | - | - | - | 11 | 16 | 20 | 28 | 34 | 39 |
| 200mm x 150mm | 0.03 | 0.02 | Airflow, l/s | 37 | 49 | 61 | 74 | 86 | 98 | 123 | 147 | 172 |
| | | | NC | - | - | - | 12 | 17 | 22 | 29 | 35 | 40 |
| 250mm x 150mm | 0.04 | 0.03 | Airflow, l/s | 48 | 64 | 80 | 96 | 112 | 128 | 160 | 193 | 225 |
| | | | NC | - | - | - | 13 | 19 | 23 | 30 | 36 | 41 |
| 200mm x 200mm | 0.04 | 0.03 | Airflow, l/s | 52 | 70 | 87 | 105 | 122 | 140 | 175 | 210 | 244 |
| | | | NC | - | - | - | 14 | 19 | 23 | 31 | 37 | 42 |
| 300mm x 150mm | 0.05 | 0.04 | Airflow, l/s | 58 | 77 | 97 | 116 | 135 | 155 | 193 | 232 | 271 |
| | | | NC | - | - | - | 14 | 19 | 24 | 31 | 37 | 42 |
| 350mm x 150mm | 0.05 | 0.04 | Airflow, l/s | 68 | 91 | 113 | 136 | 159 | 181 | 227 | 272 | 317 |
| | | | NC | - | - | - | 15 | 20 | 24 | 32 | 38 | 43 |
| 400mm x 150mm | 0.06 | 0.05 | Airflow, l/s | 81 | 108 | 135 | 161 | 188 | 215 | 269 | 323 | 377 |
| | | | NC | - | - | - | 16 | 21 | 25 | 33 | 38 | 44 |
| 250mm x 250mm | 0.06 | 0.05 | Airflow, l/s | 84 | 111 | 139 | 167 | 195 | 223 | 278 | 334 | 390 |
| | | | NC | - | - | - | 16 | 21 | 25 | 33 | 39 | 44 |
| 450mm x 150mm | 0.07 | 0.06 | Airflow, l/s | 89 | 119 | 149 | 178 | 208 | 238 | 297 | 357 | 416 |
| | | | NC | - | - | - | 16 | 21 | 26 | 33 | 39 | 44 |
| 500mm x 150mm | 0.08 | 0.07 | Airflow, l/s | 102 | 136 | 170 | 204 | 238 | 272 | 340 | 408 | 476 |
| | | | NC | - | - | 11 | 17 | 22 | 26 | 34 | 40 | 45 |
| 550mm x 150mm | 0.09 | 0.07 | Airflow, l/s | 109 | 145 | 182 | 218 | 254 | 291 | 363 | 436 | 509 |
| | | | NC | - | - | 11 | 17 | 22 | 26 | 34 | 40 | 45 |
| 600mm x 150mm | 0.09 | 0.08 | Airflow, l/s | 125 | 166 | 208 | 249 | 291 | 332 | 415 | 498 | 581 |
| | | | NC | - | - | 12 | 18 | 23 | 27 | 34 | 40 | 45 |
| 750mm x 150mm | 0.12 | 0.10 | Airflow, l/s | 157 | 210 | 262 | 314 | 367 | 419 | 524 | 629 | 733 |
| | | | NC | - | - | 13 | 19 | 24 | 28 | 35 | 41 | 46 |
| 350mm x 350mm | 0.13 | 0.11 | Airflow, l/s | 173 | 230 | 288 | 345 | 403 | 461 | 576 | 691 | 806 |
| | | | NC | - | - | 13 | 19 | 24 | 28 | 36 | 42 | 47 |
| 900mm x 150mm | 0.14 | 0.13 | Airflow, l/s | 191 | 255 | 319 | 382 | 446 | 510 | 637 | 765 | 892 |
| | | | NC | - | - | 14 | 19 | 25 | 29 | 36 | 42 | 47 |
| 550mm x 250mm | 0.14 | 0.13 | Airflow, l/s | 194 | 259 | 323 | 388 | 453 | 517 | 647 | 776 | 905 |
| | | | NC | - | - | 14 | 20 | 25 | 29 | 36 | 42 | 47 |
| 750mm x 200mm | 0.16 | 0.14 | Airflow, l/s | 211 | 281 | 352 | 422 | 492 | 563 | 703 | 844 | 984 |
| | | | NC | - | - | 14 | 20 | 25 | 29 | 37 | 43 | 48 |
| 1050mm x 150mm | 0.16 | 0.15 | Airflow, l/s | 225 | 300 | 375 | 450 | 525 | 600 | 750 | 900 | 1051 |
| | | | NC | - | - | 14 | 20 | 25 | 30 | 37 | 43 | 48 |
| 400mm x 400mm | 0.17 | 0.15 | Airflow, l/s | 229 | 306 | 382 | 459 | 535 | 612 | 765 | 917 | 1070 |
| | | | NC | - | - | 14 | 20 | 25 | 30 | 37 | 43 | 48 |
| 600mm x 300mm | 0.19 | 0.17 | Airflow, l/s | 258 | 344 | 429 | 515 | 601 | 687 | 859 | 1031 | 1203 |
| | | | NC | - | - | 15 | 21 | 26 | 30 | 38 | 44 | 49 |
| 450mm x 450mm | 0.21 | 0.19 | Airflow, l/s | 293 | 391 | 488 | 586 | 684 | 782 | 977 | 1172 | 1368 |
| | | | NC | - | - | 15 | 21 | 26 | 31 | 38 | 44 | 49 |
| 600mm x 350mm | 0.22 | 0.20 | Airflow, l/s | 303 | 404 | 505 | 606 | 707 | 808 | 1010 | 1212 | 1414 |
| | | | NC | - | - | 16 | 21 | 27 | 31 | 38 | 44 | 49 |
| 750mm x 300mm | 0.23 | 0.21 | Airflow, l/s | 324 | 432 | 540 | 648 | 757 | 865 | 1081 | 1297 | 1513 |
| | | | NC | - | - | 16 | 22 | 27 | 31 | 39 | 45 | 50 |

Note: All dimensions are nominal • product will be built to the closest inch equivalent dimension unless specially ordered to true metric

• contact factory for availability of sizes •

990 Security Row • Richardson, Texas 75081
Telephone 972-699-1030 • FAX 972-918-8880



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| Nominal Duct Size | Nominal Duct Area (m ²) | Core Area (m ²) | Core Velocity, m/s Velocity Pressure, Pa 1 x 1 x 1" Neg. Ps, Pa 1/2 x 1/2 x 1/2" Neg. Ps, Pa | NC -10 | | NC -20 | | NC -30 | | NC -40 | | NC -50 |
|-----------------------|-------------------------------------|-----------------------------|---|--------|------|--------|------|--------|------|--------|------|--------|
| | | | | 1.5 | 2.0 | 2.5 | 3.0 | 3.6 | 4.1 | 5.1 | 6.1 | 7.1 |
| 600mm x 400mm | 0.25 | 0.23 | Airflow, l/s | 348 | 464 | 580 | 697 | 813 | 929 | 1161 | 1393 | 1625 |
| | | | NC | - | - | 16 | 22 | 27 | 32 | 39 | 45 | 50 |
| 500mm x 500mm | 0.26 | 0.24 | Airflow, l/s | 364 | 485 | 606 | 728 | 849 | 970 | 1213 | 1455 | 1698 |
| | | | NC | - | - | 16 | 22 | 27 | 32 | 39 | 45 | 50 |
| 900mm x 300mm | 0.28 | 0.26 | Airflow, l/s | 389 | 519 | 649 | 779 | 909 | 1038 | 1298 | 1557 | 1817 |
| | | | NC | - | - | 17 | 23 | 28 | 32 | 39 | 45 | 50 |
| 750mm x 400mm | 0.31 | 0.29 | Airflow, l/s | 440 | 587 | 734 | 881 | 1027 | 1174 | 1468 | 1761 | 2055 |
| 600mm x 500mm | | | NC | - | - | 17 | 23 | 28 | 33 | 40 | 46 | 51 |
| 550mm x 550mm | 0.31 | 0.29 | Airflow, l/s | 445 | 593 | 741 | 889 | 1037 | 1186 | 1482 | 1778 | 2075 |
| | | | NC | - | - | 17 | 23 | 28 | 33 | 40 | 46 | 51 |
| 1050mm x 300mm | | | Airflow, l/s | 456 | 608 | 760 | 912 | 1064 | 1216 | 1520 | 1824 | 2128 |
| 900mm x 350mm | 0.33 | 0.30 | NC | - | - | 17 | 23 | 28 | 33 | 40 | 46 | 51 |
| 600mm x 550mm | 0.34 | 0.32 | Airflow, l/s | 486 | 648 | 809 | 971 | 1133 | 1295 | 1619 | 1943 | 2266 |
| | | | NC | - | - | 18 | 24 | 29 | 33 | 40 | 46 | 51 |
| 750mm x 450mm | 0.35 | 0.33 | Airflow, l/s | 496 | 661 | 826 | 991 | 1156 | 1321 | 1652 | 1982 | 2313 |
| | | | NC | - | - | 18 | 24 | 29 | 33 | 40 | 46 | 51 |
| 1200mm x 300mm | | | Airflow, l/s | 531 | 708 | 885 | 1062 | 1239 | 1416 | 1770 | 2124 | 2478 |
| 600mm x 600mm | 0.37 | 0.35 | NC | - | 11 | 18 | 24 | 29 | 33 | 41 | 47 | 52 |
| 900mm x 450mm | 0.42 | 0.39 | Airflow, l/s | 597 | 797 | 996 | 1195 | 1394 | 1593 | 1992 | 2390 | 2788 |
| | | | NC | - | 11 | 18 | 24 | 29 | 34 | 41 | 47 | 52 |
| 900mm x 500mm | | | Airflow, l/s | 667 | 889 | 1111 | 1334 | 1556 | 1778 | 2223 | 2667 | 3112 |
| 750mm x 600mm | 0.46 | 0.44 | NC | - | 12 | 19 | 25 | 30 | 34 | 42 | 48 | 53 |
| 1050mm x 450mm | 0.49 | 0.46 | Airflow, l/s | 699 | 933 | 1166 | 1399 | 1632 | 1865 | 2331 | 2798 | 3264 |
| | | | NC | - | 12 | 19 | 25 | 30 | 35 | 42 | 48 | 53 |
| 700mm x 700mm | 0.51 | 0.48 | Airflow, l/s | 731 | 974 | 1218 | 1461 | 1705 | 1948 | 2435 | 2922 | 3409 |
| | | | NC | - | 12 | 19 | 25 | 30 | 35 | 42 | 48 | 53 |
| 1050mm x 500mm | | | Airflow, l/s | 780 | 1040 | 1300 | 1560 | 1820 | 2080 | 2600 | 3121 | 3641 |
| 750mm x 700mm | 0.54 | 0.51 | NC | - | 12 | 20 | 26 | 31 | 35 | 42 | 48 | 53 |
| 1200mm x 450mm | | | Airflow, l/s | 801 | 1068 | 1336 | 1603 | 1870 | 2137 | 2671 | 3205 | 3740 |
| 900mm x 600mm | 0.56 | 0.53 | NC | - | 12 | 20 | 26 | 31 | 35 | 42 | 48 | 54 |
| 750mm x 750mm | 0.58 | 0.55 | Airflow, l/s | 841 | 1121 | 1402 | 1682 | 1962 | 2243 | 2803 | 3364 | 3925 |
| | | | NC | - | 13 | 20 | 26 | 31 | 35 | 43 | 49 | 54 |
| 1050mm x 600mm | | | Airflow, l/s | 943 | 1257 | 1572 | 1886 | 2200 | 2515 | 3143 | 3772 | 4400 |
| 900mm x 700mm | 0.65 | 0.62 | NC | - | 13 | 20 | 26 | 31 | 36 | 43 | 49 | 54 |
| 1150mm x 550mm | 0.65 | 0.62 | Airflow, l/s | 946 | 1261 | 1576 | 1892 | 2207 | 2522 | 3153 | 3783 | 4414 |
| | | | NC | - | 13 | 20 | 26 | 31 | 36 | 43 | 49 | 54 |
| 800mm x 800mm | 0.66 | 0.63 | Airflow, l/s | 960 | 1280 | 1600 | 1920 | 2240 | 2560 | 3200 | 3840 | 4480 |
| | | | NC | - | 13 | 21 | 26 | 32 | 36 | 43 | 49 | 54 |
| 900mm x 750mm | 0.70 | 0.67 | Airflow, l/s | 1014 | 1352 | 1690 | 2027 | 2365 | 2703 | 3379 | 4055 | 4731 |
| | | | NC | - | 13 | 21 | 27 | 32 | 36 | 43 | 49 | 55 |
| 1200mm x 600mm | | | Airflow, l/s | 1080 | 1440 | 1800 | 2161 | 2521 | 2881 | 3601 | 4321 | 5041 |
| 900mm x 800mm | 0.74 | 0.71 | NC | - | 14 | 21 | 27 | 32 | 36 | 44 | 50 | 55 |
| 850mm x 850mm | 0.75 | 0.71 | Airflow, l/s | 1087 | 1450 | 1812 | 2175 | 2537 | 2900 | 3625 | 4349 | 5074 |
| | | | NC | - | 14 | 21 | 27 | 32 | 36 | 44 | 50 | 55 |
| 900mm x 850mm | 0.79 | 0.76 | Airflow, l/s | 1153 | 1537 | 1921 | 2305 | 2689 | 3073 | 3842 | 4610 | 5378 |
| | | | NC | - | 14 | 21 | 27 | 32 | 37 | 44 | 50 | 55 |

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|---|-------------------------------------|-----------------------------|---|-----------|------------|------------|------------|------------|------------|------------|------------|-------------|--|
| | | | | 1.5 | 2.0 | 2.5 | 3.0 | 3.6 | 4.1 | 5.1 | 6.1 | 7.1 | |
| 1050mm x 750mm | 0.81 | 0.78 | Airflow, l/s NC | 1186 - | 1582 14 | 1977 21 | 2373 27 | 2768 32 | 3164 37 | 3955 44 | 4746 50 | 5537 55 | |
| 900mm x 900mm | 0.84 | 0.80 | Airflow, l/s NC | 1222 - | 1629 14 | 2036 22 | 2444 28 | 2851 33 | 3258 37 | 4073 44 | 4888 50 | 5702 55 | |
| 1050mm x 850mm 1200mm x 750mm | 0.93 | 0.89 | Airflow, l/s NC | 1359 - | 1812 15 | 2265 22 | 2718 28 | 3172 33 | 3625 37 | 4531 45 | 5437 51 | 6343 56 | |
| 950mm x 950mm | 0.93 | 0.90 | Airflow, l/s NC | 1365 - | 1820 15 | 2275 22 | 2730 28 | 3185 33 | 3640 37 | 4550 45 | 5460 51 | 6369 56 | |
| 1050mm x 900mm | 0.98 | 0.94 | Airflow, l/s NC | 1430 - | 1907 15 | 2383 22 | 2860 28 | 3337 33 | 3813 38 | 4767 45 | 5720 51 | 6673 56 | |
| 1150mm x 850mm | 1.01 | 0.97 | Airflow, l/s NC | 1480 - | 1973 15 | 2466 22 | 2959 28 | 3452 33 | 3946 38 | 4932 45 | 5918 51 | 6905 56 | |
| 1050mm x 950mm | 1.03 | 0.99 | Airflow, l/s NC | 1511 - | 2014 15 | 2518 22 | 3021 28 | 3525 34 | 4029 38 | 5036 45 | 6043 51 | 7050 56 | |
| 1000mm x 1000mm | 1.03 | 0.99 | Airflow, l/s NC | 1515 - | 2020 15 | 2525 22 | 3030 28 | 3535 34 | 4040 38 | 5050 45 | 6060 51 | 7070 56 | |
| 1200mm x 900mm | 1.11 | 1.07 | Airflow, l/s NC | 1638 - | 2184 16 | 2730 23 | 3276 29 | 3822 34 | 4368 38 | 5460 46 | 6553 52 | 7645 57 | |
| 1050mm x 1050mm | 1.14 | 1.10 | Airflow, l/s NC | 1674 - | 2231 16 | 2789 23 | 3347 29 | 3905 34 | 4463 38 | 5578 46 | 6694 52 | 7810 57 | |
| 1100mm x 1100mm | 1.25 | 1.21 | Airflow, l/s NC | 1839 - | 2452 16 | 3065 23 | 3678 29 | 4291 34 | 4905 39 | 6131 46 | 7357 52 | 8583 57 | |
| 1200mm x 1050mm | 1.30 | 1.26 | Airflow, l/s NC | 1917 - | 2556 16 | 3195 24 | 3834 29 | 4473 35 | 5112 39 | 6390 46 | 7668 52 | 8946 57 | |
| 1150mm x 1150mm | 1.36 | 1.32 | Airflow, l/s NC | 2013 - | 2684 16 | 3356 24 | 4027 30 | 4698 35 | 5369 39 | 6711 46 | 8053 52 | 9396 58 | |
| 1200mm x 1150mm | 1.42 | 1.38 | Airflow, l/s NC | 2103 - | 2803 17 | 3504 24 | 4205 30 | 4906 35 | 5607 39 | 7008 47 | 8410 53 | 9812 58 | |
| 1200mm x 1200mm | 1.49 | 1.44 | Airflow, l/s NC | 2195 - | 2926 17 | 3658 24 | 4389 30 | 5121 35 | 5852 40 | 7315 47 | 8778 53 | 10241 58 | |

- Static pressure are negative, in Pascal, measured per ASHRAE 70-91
- NC based on absorption of 10dB, re 10-10 watts, measured per ASHRAE 70-91

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