

Performance Notes for Supply Grilles and Registers 5100, 6100 and 6700 Series

Throw, Spread and Drop

The isovel diagrams shown below, illustrate in plan view, the relationship of horizontal spread to throw for three standard vertical blade deflections and represent a typical high side wall supply outlet. The isovels (throw values) are for the cataloged terminal velocities of 150, 100 and 50 fpm.

Cataloged data, in accordance with the test code, is with the grille mounted 9" (229) below the ceiling and benefiting from the ceiling coanda effect under isothermal conditions. Throw values without ceiling effect (greater than 24" (610) from a surface parallel to the airflow) may be approximated by multiplying the cataloged throw by x 0.7.

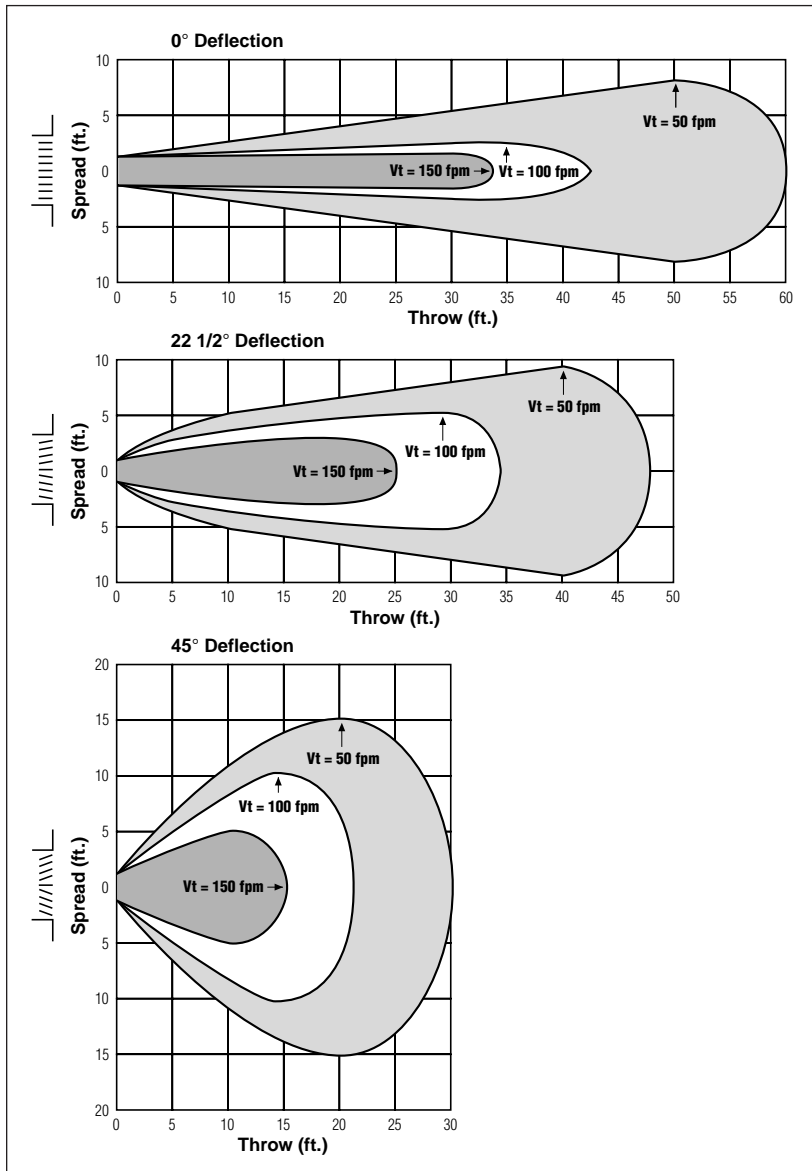
In order to offset potential draft problems caused by premature drop, it is recommended to set the blades with an upward deflection setting of 15 – 20° in free space conditions. The

angle of spread and temperature differential between the supply air and room air (ΔT) also effects the drop of the airstream.

Under constant conditions of temperature, volume and core velocity, the wider the spread, the smaller the drop. Typical cold supply air (20°F ΔT) reduces horizontal throw by approximately 30%. Warm air will increase throw by approximately 30% and reduce drop.

For a full explanation of the effects of spread, throw, temperature and drop, refer to the engineering guide at the back of the catalog.

Spread Characteristics With Three Deflection Settings



NC Corrections for Blade Deflection (add)

| Model Type | Damper | Blade Deflection | | |
|-------------------|---------|------------------|---------|-----|
| | | 0° | 22 1/2° | 45° |
| Double Deflection | With | 0 | + 2 | + 7 |
| | Without | - 4 | - 2 | + 3 |
| Single Deflection | With | - 4 | - 1 | + 4 |
| | Without | - 8 | - 6 | + 1 |

Note: Damper corrections are for wide open damper.

TP Correction Factors for Grilles Without Damper (multiply)

| Blade deflection | 0° | 22 1/2° | 45° |
|---------------------|-------|---------|-------|
| Double Defl. Factor | x .80 | x .83 | x .89 |
| Single Defl. Factor | x .73 | x .76 | x .85 |

NC Corrections for Throttling Damper (add)

| Additional Pressure Drop (in. w.g.) | .05" | .15" | .25" |
|-------------------------------------|------|------|------|
| Approx. Damper Opening | 75% | 67% | 50% |
| NC add | + 6 | + 11 | + 18 |

Performance Data

Supply Grilles and Registers • 5100, 6100 and 6700 Series

Models: 51DV, 51DH, 51SV, 51SH, 61DV, 61DH, 61SV, 61SH,
67DV, 67DH, 67SV, 67SH

| Listed Duct Size (inches) | Alternate Size (inches) | Core Area (sq. ft.) | Ak Factor | Core Velocity VP | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------------------------------|---------------------|-----------|------------------|-----|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|---|----|---------|-----|-----|----|---|----|---------|-----|-----|----|---|----|---------|-----|-----|----|---|----|---------|-----|-----|
| | | | | | 0° | 22 1/2° | 45° | CFM | NC | T | 0° | 22 1/2° | 45° | CFM | NC | T | 0° | 22 1/2° | 45° | CFM | NC | T | 0° | 22 1/2° | 45° | CFM | NC | T | 0° | 22 1/2° | 45° | CFM | NC | T | 0° | 22 1/2° | 45° | CFM |
| 6 x 6 | 8 x 4 10 x 4 | 0.20 | | CFM | 60 | 80 | 100 | 120 | 140 | 160 | 200 | 240 | 280 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | — | 14 | 19 | 23 | 29 | 35 | 40 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 5-7-13 | 7-9-16 | 8-12-18 | 10-14-20 | 11-15-21 | 12-16-23 | 15-18-25 | 16-20-27 | 17-21-30 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 x 6 | 10 x 5 12 x 4 | 0.27 | | CFM | 81 | 108 | 135 | 162 | 189 | 216 | 270 | 324 | 378 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | 10 | 15 | 20 | 24 | 30 | 36 | 41 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 5-8-15 | 8-12-18 | 10-14-20 | 11-16-23 | 13-18-25 | 15-19-27 | 17-21-30 | 18-23-32 | 19-24-35 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 x 6 | 12 x 5 16 x 4 | 0.35 | | CFM | 105 | 140 | 175 | 210 | 245 | 280 | 350 | 420 | 490 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | 11 | 16 | 21 | 25 | 31 | 37 | 42 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 6-9-18 | 9-13-21 | 10-16-24 | 12-19-26 | 15-20-28 | 17-21-30 | 20-23-33 | 21-25-36 | 22-27-39 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 x 8 | 14 x 5 | 0.38 | | CFM | 114 | 152 | 190 | 228 | 266 | 304 | 380 | 456 | 532 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | 12 | 17 | 22 | 26 | 32 | 38 | 43 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 6-9-19 | 9-14-22 | 11-16-25 | 13-19-27 | 16-21-29 | 18-22-32 | 19-24-34 | 21-26-37 | 23-28-40 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 x 6 | 18 x 4 | 0.42 | | CFM | 126 | 168 | 210 | 252 | 294 | 336 | 420 | 504 | 588 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | 12 | 17 | 22 | 26 | 32 | 38 | 43 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 6-9-19 | 9-14-22 | 11-16-25 | 13-19-27 | 16-21-30 | 18-22-32 | 19-24-34 | 21-28-38 | 23-29-41 | | | | | | | | | | | | | | | | | | | | | | | |
| 14 x 6 | 10 x 8 | 0.50 | | CFM | 150 | 200 | 250 | 300 | 350 | 400 | 500 | 600 | 700 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | 13 | 18 | 23 | 27 | 33 | 39 | 44 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 6-11-20 | 10-15-23 | 12-18-25 | 15-20-28 | 16-22-31 | 19-23-33 | 21-25-36 | 23-28-40 | 25-31-43 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 x 8 | 16 x 6 24 x 4 | 0.58 | | CFM | 174 | 232 | 290 | 348 | 406 | 464 | 580 | 696 | 812 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | 14 | 19 | 24 | 28 | 34 | 40 | 45 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 7-11-21 | 10-15-24 | 12-19-27 | 15-21-30 | 17-23-32 | 20-24-34 | 22-27-38 | 24-30-42 | 26-32-45 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 x 10 | 14 x 7 26 x 4 | 0.61 | | CFM | 183 | 244 | 305 | 366 | 427 | 488 | 610 | 732 | 854 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | 14 | 19 | 24 | 28 | 34 | 40 | 45 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 7-11-21 | 10-16-24 | 13-19-28 | 16-21-30 | 17-23-32 | 20-24-35 | 23-28-39 | 24-30-43 | 27-32-46 | | | | | | | | | | | | | | | | | | | | | | | |
| 18 x 6 | 14 x 8 28 x 4 30 x 4 | 0.65 | | CFM | 195 | 260 | 325 | 390 | 455 | 520 | 650 | 780 | 910 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | 15 | 20 | 25 | 29 | 35 | 41 | 46 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 7-12-22 | 11-16-25 | 13-20-29 | 16-22-32 | 18-24-34 | 21-25-36 | 24-29-40 | 25-32-45 | 28-34-48 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 x 10 | 20 x 6 24 x 5 | 0.74 | | CFM | 222 | 296 | 370 | 444 | 518 | 592 | 740 | 888 | 1036 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | 15 | 20 | 25 | 29 | 35 | 41 | 46 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 8-13-24 | 11-17-27 | 14-21-31 | 17-24-33 | 20-26-36 | 22-27-39 | 25-31-43 | 27-33-48 | 30-36-51 | | | | | | | | | | | | | | | | | | | | | | | |
| 22 x 6 | 16 x 8 28 x 5 36 x 4 | 0.80 | | CFM | 240 | 320 | 400 | 480 | 560 | 640 | 800 | 960 | 1120 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | 16 | 21 | 26 | 30 | 36 | 42 | 47 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 8-13-25 | 11-18-28 | 15-22-32 | 18-25-35 | 20-27-38 | 23-28-41 | 26-32-45 | 28-35-50 | 31-38-53 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 x 12 | 14 x 10 18 x 8 24 x 6 38 x 4 | 0.90 | | CFM | 270 | 360 | 450 | 540 | 630 | 720 | 900 | 1080 | 1260 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | 16 | 21 | 26 | 30 | 36 | 42 | 47 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 9-14-26 | 12-18-29 | 15-23-33 | 18-26-36 | 21-27-39 | 24-29-42 | 27-33-47 | 29-36-51 | 32-39-56 | | | | | | | | | | | | | | | | | | | | | | | |
| 18 x 10 | 30 x 6 | 1.13 | | CFM | 339 | 452 | 565 | 678 | 791 | 904 | 1130 | 1356 | 1582 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | NC | — | — | 17 | 22 | 27 | 31 | 37 | 43 | 48 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | T | 0° | 9-15-29 | 14-20-33 | 17-25-36 | 20-29-40 | 24-30-43 | 27-33-46 | 30-36-51 | 33-40-57 | 35-43-61 | | | | | | | | | | | | | | | | | | | | | | | |

G GRILLES AND REGISTERS

Performance Data

Supply Grilles and Registers • 5100, 6100 and 6700 Series

Models: 51DV, 51DH, 51SV, 51SH, 61DV, 61DH, 61SV, 61SH, 67DV, 67DH, 67SV, 67SH

| Listed Duct Size (inches) | Alternate Size (inches) | Core Area (sq. ft.) | Ak Factor | Core Velocity VP | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | |
|---------------------------|--|---------------------|----------------------|------------------|----------|----------|----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| | | | | | 0° | 0.006 | 0.010 | 0.016 | 0.022 | 0.031 | 0.040 | 0.062 | 0.090 | 0.122 |
| 24 x 24 | 26 x 22 28 x 20 32 x 18 36 x 16 | 3.79 | 2.58 2.24 1.95 | CFM NC | 1137 | 1516 | 1895 | 2274 | 2653 | 3032 | 3790 | 4548 | 5306 | |
| | | | | T | 0° | 18-29-55 | 26-39-62 | 33-48-70 | 39-55-77 | 45-59-83 | 51-62-89 | 57-70-99 | 62-77-108 | 68-83-117 |
| | | | | 22 1/2° | 14-23-44 | 21-31-50 | 26-38-56 | 31-44-62 | 36-47-66 | 41-50-71 | 46-56-79 | 50-62-86 | 54-66-94 | |
| 36 x 18 | 32 x 20 40 x 16 46 x 14 | 4.29 | 2.92 2.53 2.21 | CFM NC | 1287 | 1716 | 2145 | 2574 | 3003 | 3432 | 4290 | 5148 | 6006 | |
| | | | | T | 0° | 19-31-58 | 28-42-68 | 35-52-75 | 42-58-83 | 48-63-89 | 55-68-95 | 61-75-106 | 68-83-117 | 73-89-125 |
| | | | | 22 1/2° | 15-25-46 | 22-34-54 | 28-42-60 | 34-46-66 | 38-50-71 | 44-54-76 | 49-60-85 | 54-66-94 | 58-71-100 | |
| 26 x 26 | 28 x 24 48 x 14 | 4.47 | 3.04 2.64 2.30 | CFM NC | 1341 | 1788 | 2235 | 2682 | 3129 | 3576 | 4470 | 5364 | 6258 | |
| | | | | T | 0° | 19-32-59 | 28-43-69 | 35-53-77 | 43-59-85 | 49-65-91 | 56-69-98 | 63-77-109 | 69-85-120 | 75-91-129 |
| | | | | 22 1/2° | 15-26-47 | 22-34-55 | 28-42-62 | 34-47-68 | 39-52-73 | 45-55-78 | 50-62-87 | 55-68-96 | 60-73-103 | |
| 30 x 24 | 32 x 22 36 x 20 40 x 18 | 4.77 | 3.24 2.81 2.46 | CFM NC | 1431 | 1908 | 2385 | 2862 | 3339 | 3816 | 4770 | 5724 | 6678 | |
| | | | | T | 0° | 20-33-61 | 29-44-71 | 36-54-79 | 44-61-87 | 51-67-94 | 58-71-101 | 65-79-112 | 71-87-123 | 77-94-133 |
| | | | | 22 1/2° | 16-26-49 | 23-35-57 | 29-43-63 | 35-49-70 | 41-54-75 | 46-57-81 | 52-63-90 | 57-70-98 | 62-75-106 | |
| 42 x 18 | 28 x 26 | 4.99 | 3.39 2.94 2.57 | CFM NC | 1497 | 1996 | 2495 | 2994 | 3493 | 3992 | 4990 | 5988 | 6986 | |
| | | | | T | 0° | 20-33-62 | 30-44-72 | 37-55-80 | 44-62-88 | 52-67-95 | 59-72-102 | 66-80-114 | 72-88-125 | 77-95-135 |
| | | | | 22 1/2° | 16-26-50 | 24-35-58 | 30-44-64 | 35-50-70 | 42-54-76 | 47-58-82 | 53-64-91 | 58-70-100 | 62-76-108 | |
| 28 x 28 | 30 x 26 36 x 22 40 x 20 | 5.20 | 3.54 3.07 2.68 | CFM NC | 1560 | 2080 | 2600 | 3120 | 3640 | 4160 | 5200 | 6240 | 7280 | |
| | | | | T | 0° | 21-34-63 | 30-45-74 | 38-56-82 | 45-63-90 | 53-69-97 | 60-74-104 | 67-82-116 | 74-90-128 | 79-97-137 |
| | | | | 22 1/2° | 17-27-50 | 24-36-59 | 30-45-66 | 36-50-72 | 42-55-78 | 48-59-83 | 54-66-93 | 59-72-102 | 63-78-110 | |
| 42 x 20 | 30 x 28 | 5.57 | 3.79 3.29 2.87 | CFM NC | 1671 | 2228 | 2785 | 3342 | 3899 | 4456 | 5570 | 6684 | 7798 | |
| | | | | T | 0° | 22-35-66 | 31-47-76 | 39-58-84 | 47-66-93 | 55-71-100 | 62-76-107 | 70-84-120 | 76-93-131 | 82-100-142 |
| | | | | 22 1/2° | 18-28-53 | 25-38-61 | 31-46-67 | 38-53-74 | 44-57-80 | 50-61-86 | 56-67-96 | 61-74-105 | 66-80-114 | |
| 36 x 24 | 40 x 22 44 x 20 | 5.74 | 3.90 3.39 2.96 | CFM NC | 1722 | 2296 | 2870 | 3444 | 4018 | 4592 | 5740 | 6888 | 8036 | |
| | | | | T | 0° | 23-36-68 | 32-49-78 | 41-60-88 | 49-68-96 | 57-74-104 | 64-78-112 | 72-88-124 | 78-96-137 | 85-104-148 |
| | | | | 22 1/2° | 18-29-54 | 26-39-62 | 33-48-70 | 39-54-77 | 46-59-83 | 51-62-90 | 58-70-99 | 62-77-110 | 68-83-118 | |
| 30 x 30 | 34 x 26 38 x 24 48 x 20 | 5.99 | 4.07 3.53 3.08 | CFM NC | 1797 | 2396 | 2995 | 3594 | 4193 | 4792 | 5990 | 7188 | 8386 | |
| | | | | T | 0° | 23-36-69 | 33-49-80 | 41-61-89 | 49-69-98 | 57-75-106 | 65-80-113 | 73-89-126 | 80-98-138 | 86-106-150 |
| | | | | 22 1/2° | 18-29-55 | 26-39-64 | 33-49-71 | 39-55-78 | 46-60-85 | 52-64-90 | 58-71-101 | 64-78-110 | 69-85-120 | |
| 42 x 24 | 36 x 28 42 x 24 46 x 22 | 6.72 | 4.57 3.96 3.46 | CFM NC | 2016 | 2688 | 3360 | 4032 | 4704 | 5376 | 6720 | 8064 | 9408 | |
| | | | | T | 0° | 24-39-72 | 34-51-84 | 43-64-93 | 51-72-102 | 60-78-111 | 68-84-118 | 77-93-132 | 84-102-144 | 90-111-157 |
| | | | | 22 1/2° | 19-31-58 | 27-41-67 | 34-51-74 | 41-58-82 | 48-62-89 | 54-67-94 | 62-74-106 | 67-82-115 | 72-89-126 | |
| 32 x 32 | 40 x 26 | 6.84 | 4.65 4.04 3.52 | CFM NC | 2052 | 2736 | 3420 | 4104 | 4788 | 5472 | 6840 | 8208 | 9576 | |
| | | | | T | 0° | 24-39-73 | 34-52-84 | 43-65-94 | 52-73-103 | 61-79-112 | 69-84-119 | 77-94-133 | 84-103-146 | 91-112-158 |
| | | | | 22 1/2° | 19-31-58 | 27-42-67 | 34-52-75 | 42-58-82 | 49-63-90 | 55-67-95 | 62-75-106 | 67-82-117 | 73-90-126 | |
| 36 x 30 | 38 x 28 | 7.22 | 4.91 4.26 3.72 | CFM NC | 2166 | 2888 | 3610 | 4332 | 5054 | 5776 | 7220 | 8664 | 10108 | |
| | | | | T | 0° | 25-40-76 | 36-54-87 | 45-68-98 | 54-76-108 | 63-82-116 | 71-87-124 | 80-98-139 | 87-108-151 | 94-116-164 |
| | | | | 22 1/2° | 20-32-61 | 29-43-70 | 36-54-78 | 43-61-86 | 50-66-93 | 57-70-99 | 64-78-111 | 70-86-121 | 75-93-131 | |
| 48 x 24 | 34 x 34 36 x 32 38 x 30 42 x 28 | 7.69 | 5.23 4.54 3.96 | CFM NC | 2307 | 3076 | 3845 | 4614 | 5383 | 6152 | 7690 | 9228 | 10766 | |
| | | | | T | 0° | 26-41-77 | 37-55-90 | 46-69-100 | 55-77-109 | 64-84-118 | 73-90-127 | 82-100-142 | 90-109-155 | 97-118-167 |
| | | | | 22 1/2° | 21-33-62 | 30-44-72 | 37-55-80 | 44-62-87 | 51-67-94 | 58-72-102 | 66-80-114 | 72-87-124 | 78-94-134 | |
| | | | | 45° | 13-22-39 | 19-28-45 | 23-45-50 | 28-39-55 | 32-42-59 | 37-45-64 | 41-50-71 | 45-55-78 | 49-59-84 | |

G
GRILLES AND REGISTERS

Performance Data

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| Listed Duct Size (inches) | Alternate Size (inches) | Core Area (sq. ft.) | Ak Factor | Core Velocity VP | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 |
|---------------------------|-------------------------------|---------------------|-----------|------------------|------|-----------|-----------|------------|------------|------------|-------------|-------------|-------------|
| | | | | | 0° | 0° | 0° | 0° | 0° | 0° | 0° | 0° | 0° |
| 36 x 34 | 38 x 32 42 x 30 48 x 26 | 8.20 | | CFM | 2460 | 3280 | 4100 | 4920 | 5740 | 6560 | 8200 | 9840 | 11480 |
| | | | | NC | — | 18 | 25 | 30 | 35 | 39 | 45 | 51 | 56 |
| | | | | T | 0° | 26-42-79 | 37-57-91 | 47-70-102 | 57-79-111 | 65-85-121 | 75-91-129 | 84-102-144 | 91-111-158 |
| 36 x 36 | 38 x 34 42 x 30 46 x 28 | 8.69 | | CFM | 2607 | 3476 | 4345 | 5214 | 6083 | 6952 | 8690 | 10428 | 12166 |
| | | | | NC | — | 18 | 25 | 30 | 35 | 39 | 45 | 51 | 56 |
| | | | | T | 0° | 28-45-84 | 39-60-96 | 49-74-108 | 60-84-117 | 69-90-127 | 78-96-136 | 88-108-152 | 96-117-166 |
| 38 x 38 | 42 x 34 | 9.70 | | CFM | 2910 | 3880 | 4850 | 5820 | 6790 | 7760 | 9700 | 11640 | 13580 |
| | | | | NC | 10 | 19 | 26 | 31 | 36 | 40 | 46 | 52 | 57 |
| | | | | T | 0° | 28-47-88 | 42-62-101 | 53-78-114 | 62-88-125 | 73-95-134 | 83-101-143 | 93-114-161 | 101-125-176 |
| 42 x 36 | 44 x 34 48 x 30 | 10.16 | | CFM | 3048 | 4064 | 5080 | 6096 | 7112 | 8128 | 10160 | 12192 | 14224 |
| | | | | NC | 10 | 19 | 26 | 31 | 36 | 40 | 46 | 52 | 57 |
| | | | | T | 0° | 29-48-90 | 43-64-104 | 53-80-117 | 64-90-127 | 75-97-138 | 85-104-147 | 95-117-165 | 104-127-180 |
| 40 x 40 | 42 x 38 46 x 34 48 x 32 | 10.77 | | CFM | 3231 | 4308 | 5385 | 6462 | 7539 | 8616 | 10770 | 12924 | 15078 |
| | | | | NC | 10 | 19 | 26 | 31 | 36 | 40 | 46 | 52 | 57 |
| | | | | T | 0° | 31-50-94 | 44-67-108 | 56-84-121 | 67-94-132 | 77-102-143 | 88-108-153 | 99-121-171 | 108-132-187 |
| 42 x 42 | 44 x 40 46 x 38 48 x 36 | 11.89 | | CFM | 3567 | 4756 | 5945 | 7134 | 8323 | 9512 | 11890 | 14268 | 16646 |
| | | | | NC | 11 | 20 | 27 | 32 | 37 | 41 | 47 | 53 | 58 |
| | | | | T | 0° | 32-52-97 | 46-69-112 | 58-86-125 | 69-97-138 | 81-105-149 | 92-112-159 | 102-125-178 | 112-138-195 |
| 44 x 44 | 46 x 42 | 13.07 | | CFM | 3921 | 5228 | 6535 | 7842 | 9149 | 10456 | 13070 | 15684 | 18298 |
| | | | | NC | 11 | 20 | 27 | 32 | 37 | 41 | 47 | 53 | 58 |
| | | | | T | 0° | 34-55-104 | 49-74-120 | 61-92-133 | 74-104-146 | 86-112-158 | 97-120-168 | 109-133-189 | 120-146-207 |
| 46 x 46 | | 14.30 | | CFM | 4290 | 5720 | 7150 | 8580 | 10010 | 11440 | 14300 | 17160 | 20020 |
| | | | | NC | 11 | 20 | 27 | 32 | 37 | 41 | 47 | 53 | 58 |
| | | | | T | 0° | 35-57-107 | 51-76-124 | 63-95-138 | 76-107-151 | 89-116-163 | 101-124-174 | 113-138-195 | 124-151-214 |
| 48 x 48 | | 15.59 | | CFM | 4677 | 6236 | 7795 | 9354 | 10913 | 12472 | 15590 | 18708 | 21826 |
| | | | | NC | 12 | 21 | 28 | 33 | 38 | 42 | 48 | 54 | 59 |
| | | | | T | 0° | 37-60-113 | 53-80-131 | 67-100-146 | 80-113-159 | 94-122-173 | 106-131-185 | 119-146-206 | 131-159-226 |

- CFM** - cubic feet per minute
 - TP** - total pressure - inches w.g.
 - VP** - velocity pressure - inches w.g.
 - T** - throw in feet
 - NC** - Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts @ 0° deflection.
- Core velocity is in feet per minute.

Performance Notes:

1. Performance data is based on double deflection grille with opposed blade damper (register).
2. 0°, 22 1/2° and 45° represent vertical blade deflection angles and horizontal spread.
3. Throw values are given for terminal velocities of 150, 100 and 50 fpm under isothermal conditions.
4. Additional performance notes and correction factors for various models and settings may be found on page G23.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

GRILLES AND REGISTERS