

SERIES 5700 PERFORMANCE DATA MODEL 5700/5700A

| Listed Size | Neck Size | fpm Vn | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 2000 |
|-------------|-----------|--------|--------|--------|--------|--------|---------|---------|---------|----------|----------|----------|
| | | Pv | 0.01 | 0.016 | 0.022 | 0.031 | 0.04 | 0.05 | 0.062 | 0.09 | 0.122 | 0.249 |
| 12 x 12 | 6 | CFM | 80 | 100 | 120 | 135 | 155 | 175 | 195 | 235 | 275 | 395 |
| | | Ps | 0.021 | .033 | .048 | .061 | .080 | .102 | .127 | .184 | .253 | .521 |
| | | Pt | 0.031 | .049 | .071 | .091 | .120 | .153 | .189 | .274 | .375 | .770 |
| | | Throw* | 2-3-6 | 3-4-7 | 3-5-7 | 3-5-8 | 4-6-8 | 4-6-9 | 5-7-9 | 6-7-10 | 6-8-11 | 8-9-13 |
| | | Throw | 3-4-6 | 3-5-7 | 4-5-7 | 4-6-8 | 5-6-8 | 5-6-9 | 5-7-9 | 6-7-10 | 6-8-11 | 8-10-13 |
| | | NC | - | <15 | 18 | 20 | 23 | 26 | 28 | 33 | 36 | 44 |
| | 8 | CFM | 140 | 175 | 210 | 245 | 280 | 315 | 350 | 420 | 490 | 700 |
| | | Ps | .029 | .046 | .066 | .090 | .118 | .149 | .184 | .265 | .360 | .735 |
| | | Pt | .039 | .062 | .089 | .121 | .158 | .199 | .246 | .354 | .482 | .984 |
| | | Throw* | 3-4-8 | 3-5-9 | 4-6-10 | 5-7-11 | 5-8-11 | 6-8-12 | 7-9-13 | 8-10-14 | 9-11-15 | 10-13-18 |
| | | Throw | 3-5-8 | 4-6-9 | 5-7-10 | 6-7-11 | 7-8-11 | 7-8-12 | 7-9-13 | 8-10-14 | 9-11-15 | 10-13-18 |
| | | NC | - | <15 | 19 | 22 | 25 | 28 | 31 | 36 | 40 | 46 |
| 24 x 24 | 6 | CFM | 80 | 100 | 120 | 135 | 155 | 175 | 195 | 235 | 275 | 395 |
| | | Ps | .014 | .021 | .031 | .039 | .051 | .065 | .081 | .118 | .161 | .332 |
| | | Pt | .024 | .037 | .053 | .069 | .091 | .116 | .143 | .207 | .283 | .582 |
| | | Throw* | 2-2-5 | 2-3-5 | 2-4-6 | 3-4-6 | 3-4-6 | 4-5-7 | 4-5-7 | 5-6-8 | 5-6-8 | 6-7-10 |
| | | Throw | 2-4-7 | 3-5-8 | 4-6-9 | 4-6-10 | 5-7-10 | 5-8-11 | 6-8-12 | 7-9-13 | 8-10-14 | 10-12-17 |
| | | NC | - | - | - | - | <15 | 16 | 18 | 23 | 27 | 43 |
| | 8 | CFM | 140 | 175 | 210 | 245 | 280 | 315 | 350 | 420 | 490 | 700 |
| | | Ps | .016 | .025 | .036 | .048 | .063 | .080 | .099 | .142 | .194 | .395 |
| | | Pt | .026 | .040 | .058 | .079 | .103 | .131 | .161 | .232 | .316 | .645 |
| | | Throw* | 2-3-6 | 3-4-7 | 3-5-7 | 4-6-8 | 4-6-9 | 5-6-9 | 5-7-10 | 6-7-10 | 7-8-11 | 8-10-13 |
| | | Throw | 3-5-10 | 4-6-11 | 5-7-12 | 6-9-13 | 6-10-14 | 7-10-15 | 8-11-16 | 10-12-17 | 11-13-18 | 13-16-22 |
| | | NC | - | - | - | - | <15 | 18 | 21 | 26 | 30 | 55 |

CEILING
DIFFUSERS

SQUARE CEILING DIFFUSERS

5700

SERIES 5700 PERFORMANCE DATA MODEL 5700/5700A

| Listed Size | Neck Size | fpm Vn | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 | 2000 |
|-------------|-----------|--------|--------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| | | Pv | 0.01 | 0.016 | 0.022 | 0.031 | 0.04 | 0.05 | 0.062 | 0.09 | 0.122 | 0.249 |
| 24 x 24 | 10 | CFM | 220 | 275 | 325 | 380 | 435 | 490 | 545 | 655 | 765 | 1090 |
| | | Ps | .019 | .030 | .042 | .057 | .075 | .096 | .118 | .171 | .233 | .473 |
| | | Pt | .029 | .046 | .064 | .088 | .115 | .146 | .181 | .261 | .355 | .722 |
| | | Throw* | 3-4-8 | 3-5-8 | 4-6-9 | 5-7-10 | 5-8-11 | 6-8-11 | 7-8-12 | 8-9-13 | 8-10-14 | 10-12-17 |
| | | Throw | 4-6-12 | 5-8-14 | 6-9-15 | 7-11-16 | 8-12-17 | 9-13-18 | 10-14-19 | 12-15-21 | 13-16-23 | 16-19-28 |
| | | NC | - | - | - | <15 | 16 | 20 | 24 | 30 | 35 | 63 |
| | 12 | CFM | 315 | 395 | 470 | 550 | 630 | 705 | 785 | 940 | 1100 | 1570 |
| | | Ps | .021 | .033 | .046 | .063 | .083 | .104 | .129 | .185 | .253 | .515 |
| | | Pt | .031 | .048 | .069 | .094 | .123 | .154 | .191 | .274 | .375 | .765 |
| | | Throw* | 3-5-9 | 4-6-10 | 5-7-11 | 6-8-12 | 7-9-13 | 7-10-14 | 8-10-14 | 9-11-16 | 10-12-17 | 12-14-20 |
| | | Throw | 5-7-15 | 6-9-17 | 7-11-18 | 8-13-20 | 10-15-21 | 11-16-22 | 12-17-23 | 14-18-26 | 16-20-28 | 19-23-33 |
| | | NC | - | - | - | <15 | 19 | 23 | 27 | 33 | 39 | 68 |
| | 14 | CFM | 430 | 535 | 640 | 750 | 855 | 960 | 1070 | 1285 | 1495 | 2140 |
| | | Ps | .026 | .041 | .058 | .080 | .104 | .131 | .163 | .234 | .377 | .650 |
| | | Pt | .036 | .056 | .081 | .110 | .144 | .181 | .225 | .324 | .440 | .900 |
| | | Throw* | 4-6-11 | 5-7-12 | 6-9-13 | 7-10-14 | 8-11-15 | 9-11-16 | 10-12-17 | 11-13-18 | 11-14-20 | 14-17-24 |
| | | Throw | 6-9-17 | 7-11-19 | 8-13-21 | 10-15-23 | 11-17-24 | 13-18-26 | 14-19-27 | 17-21-30 | 19-23-32 | 22-27-39 |
| | | NC | - | * | <15 | <15 | 18 | 23 | 28 | 35 | 40 | 67 |
| | 15 | CFM | 490 | 615 | 735 | 860 | 980 | 1105 | 1225 | 1475 | 1720 | 2455 |
| | | Ps | .032 | .051 | .072 | .099 | .129 | .164 | .201 | .292 | .396 | .808 |
| | | Pt | .042 | .066 | .095 | .130 | .169 | .214 | .263 | .381 | .519 | 1.057 |
| | | Throw* | 4-6-11 | 5-8-13 | 6-9-14 | 7-11-15 | 8-11-16 | 9-12-17 | 10-13-18 | 11-14-20 | 12-15-21 | 15-18-25 |
| | | Throw | 6-9-18 | 8-11-21 | 9-14-23 | 11-16-24 | 12-18-26 | 14-20-28 | 15-21-29 | 18-23-32 | 20-24-35 | 24-29-41 |
| | | NC | - | - | <15 | 16 | 22 | 27 | 31 | 39 | 46 | 68 |

PERFORMANCE NOTES FOR SERIES 5700

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

fpm Velocity of air stream in Feet per Minute

Pv Velocity pressure (inches of water column)

Pt Total pressure (inches of water column)

Ps Static pressure = Pt-Pv (inches of water column)

Throw* Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature); values are for 150, 100 and 50fpm velocities

Throw Isothermal throw (supply air temperature the same as average room temperature); values are for 150, 100 and 50fpm velocities

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10⁻¹² watts minus a 10dB room attenuation in all octave bands

Vn Neck Velocity