

Model 5906-3
Steel 3 Cone Step Down Diffuser

| Panel Size | Neck Size | Area Ak | Inlet Velocity | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 |
|------------|-----------|-------------------|----------------|------|------|------|------|------|------|------|------|
| 24x24 | 6" | .196 .077 | CFM | 80 | 100 | 120 | 135 | 155 | 175 | 195 | 235 |
| | | | Ps | .013 | .020 | .029 | .037 | .048 | .061 | .076 | .111 |
| | | | Throw | 5 | 6 | 7 | 7 | 7 | 8 | 8 | 9 |
| | | | NC | <15 | <15 | <15 | <15 | <15 | 18 | 21 | 25 |
| 24x24 | 8" | .349 .136 | CFM | 140 | 175 | 210 | 245 | 280 | 315 | 350 | 420 |
| | | | Ps | .014 | .022 | .032 | .043 | .056 | .071 | .088 | .126 |
| | | | Throw | 7 | 8 | 9 | 9 | 10 | 11 | 11 | 12 |
| | | | NC | <15 | <15 | <15 | <15 | 17 | 21 | 24 | 30 |
| 24x24 | 10" | .545 .213 | CFM | 220 | 275 | 325 | 380 | 435 | 490 | 545 | 655 |
| | | | Ps | .018 | .028 | .039 | .053 | .070 | .088 | .109 | .158 |
| | | | Throw | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 15 |
| | | | NC | <15 | <15 | <15 | <15 | 19 | 23 | 27 | 33 |
| 24x24 | 12" | .785 .307 | CFM | 315 | 395 | 470 | 55 | 63 | 725 | 785 | 940 |
| | | | Ps | .022 | .035 | .049 | .067 | .088 | .111 | .137 | .197 |
| | | | Throw | 11 | 12 | 12 | 14 | 15 | 16 | 17 | 18 |
| | | | NC | <15 | <15 | <15 | 16 | 21 | 26 | 30 | 36 |
| 24x24 | 14" | 1.069 .418 | CFM | 430 | 535 | 640 | 750 | 855 | 960 | 1070 | 1285 |
| | | | Ps | .032 | .049 | .071 | .097 | .126 | .159 | .198 | .285 |
| | | | Throw | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 21 |
| | | | NC | <15 | <15 | <15 | 17 | 22 | 27 | 32 | 39 |
| 24x24 | 15" | 1.227 .479 | CFM | 490 | 615 | 735 | 860 | 980 | 1105 | 1225 | 1475 |
| | | | Ps | .036 | .056 | .080 | .109 | .142 | .181 | .222 | .322 |
| | | | Throw | 13 | 15 | 16 | 17 | 19 | 20 | 21 | 23 |
| | | | NC | <15 | <15 | <15 | 16 | 22 | 27 | 31 | 39 |

Performance Notes

All Units have been tested in accordance with ANSI/ASHRAE 70-2006. Data in table is derived from such testing.

Ps - Static pressure required to obtain listed cfm, units of inches water gauge (in. wg.).

NC - Calculated noise criteria using 10 dB per octave room attenuation (dimensional).

Throw - Non-isothermal horizontal throw, in feet, ft

Ak - Area Factors

Inlet Velocity = fpm (Feet Per Minute)

For sizes not shown, refer to online tools **GRD Selection Program** performance calculator on Home Page