



Air Outlets

**SQUARE & RECTANGULAR & CIRCULAR
CEILING DIFFUSERS
SCD & RCD**



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SQUARE & RECTANGULAR DIFFUSER SCD&RCD



TYPES

- SCD : Square ceiling diffuser .
- RCD : Rectangular ceiling diffuser.



FEATURES

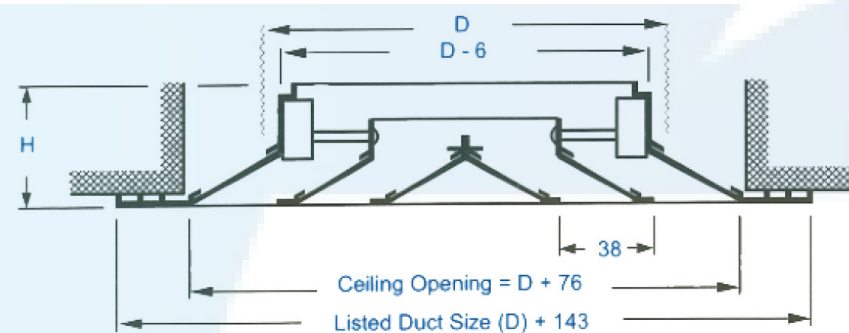
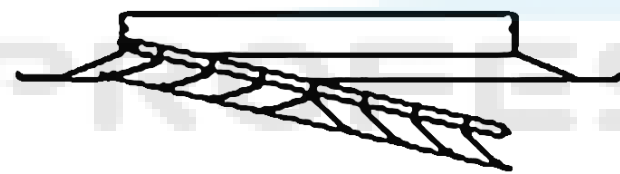
MATERIALS

- Frame : Extruded aluminium Profile (with 32 mm flange).
- Blades : Extruded aluminium Profile
- Damper frame and Core: Extruded aluminium Profile

FINISH

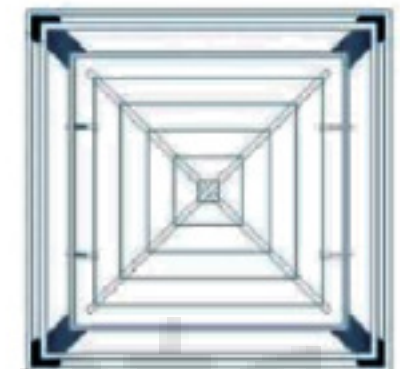
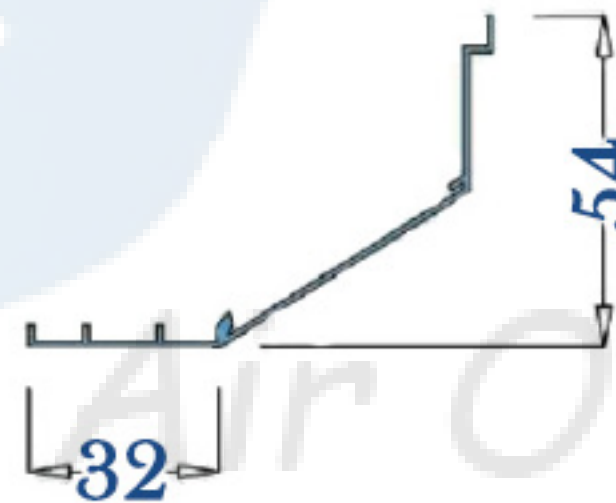
- Standard finish _ Anodised or electrostatic painted..

- Ceiling air diffuser brilliantly suit the modern architectural designs.
- Ceiling air diffuser are applied for supply , return and drive out of air.
- Ceiling air diffuser with their fixed blades are mainly suitable for horizontal discharge , and usually installed in ceiling level.
- Ceiling air diffuser consist of an outer frame, and a removable central section for easier installation .
- 1-2-3-4 way throw patterns.
- Opposed blade damper is screw operated from the face opening of the diffuser after removing the internal core.
- Available in square , rectangular or round necks.



Removable Core

H = (56 mm) WITHOUT DAMPER
= (100 mm) WIDTH DAMPER

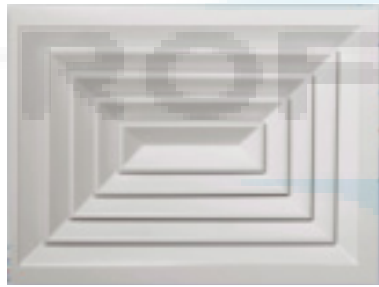


AVAILABLE CEILING DIFFUSER



4 SCD

Four way throw – square neck
c/w opposed blade damper (supply)
w/o opposed blade damper (return)



4 RCD

Four way throw – rectangular neck
c/w opposed blade damper (supply)
w/o opposed blade damper (return)



4 CCD

Four way throw – round neck
c/w opposed blade damper (supply)
w/o opposed blade damper (return)



3 SCD

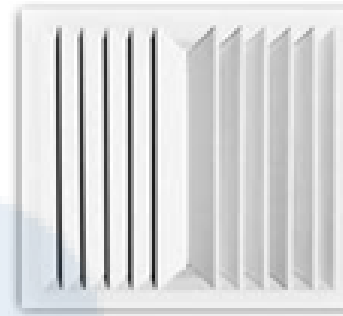
Three way throw – square neck
c/w opposed blade damper (supply)
w/o opposed blade damper (return)



3 RCD

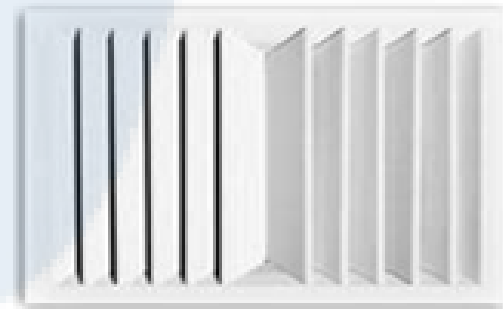
Three way throw – rectangular neck
c/w opposed blade damper (supply)
w/o opposed blade damper (return)

AVAILABLE CEILING DIFFUSER



2 SCD

Two way throw – square neck
c/w opposed blade damper (supply)
w/o opposed blade damper (return)



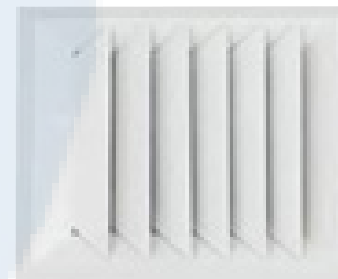
2 RCD

Two way throw – rectangular neck
c/w opposed blade damper (supply)
w/o opposed blade damper (return)



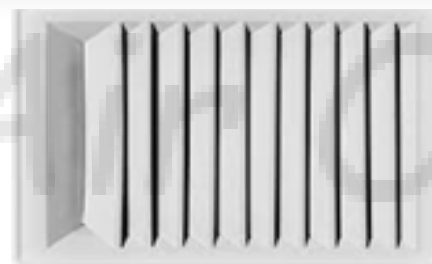
2 CSCD

Two way corner throw – square neck
c/w opposed blade damper (supply)
w/o opposed blade damper (return)



1 SCD

one way throw – square neck
c/w opposed blade damper (supply)
w/o opposed blade damper (return)



1 RCD

one way throw – rectangular neck
c/w opposed blade damper (supply)
w/o opposed blade damper (return)

PERFORMANCE NOTES & SYMBOLS

ASPECT RATIO

The ratio of the long side to the short side of a duct section / or air outlet.

CFM

A measure of volume of air in cubic feet per minute.

AK

Effective outlet area in sq.ft.

FPM

Velocity of air in feet per minute.

PT

Total pressure in inches of water . Equals the sum of static pressure plus velocity pressure.

THROW

The distance measured horizontally in feet that the air stream travels from the outlet to the point of terminal velocity. The throw is based on maximum terminal velocity of 50 fpm and minimum terminal velocity of 100 fpm.

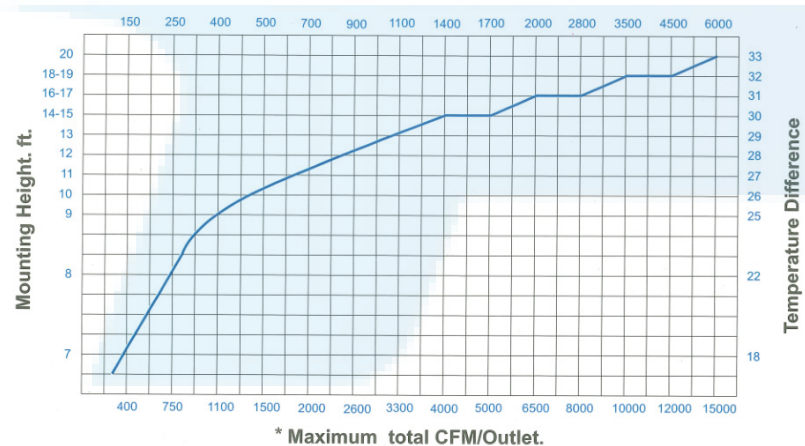
DROP

The vertical distance the air moves between the time it leaves the outlet and the time it reaches the end of its throw.

NC

Noise Criteria are based on sound power level .To determine NC values in the room due to diffuser , subtract the room attenuation from the NC ratings which are gives in the performance tables .

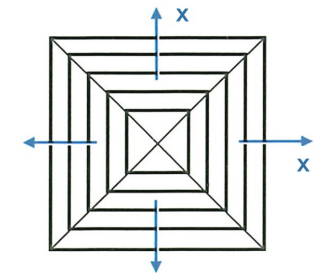
CFM – TD Ratios



N.B. *Lower air quantities than maximum can be employed at any given mounting height.

PERFORMANCE DATA 4 WAY SQUARE DIFFUSER

Model 4SCD



FOUR- WAY THROW SQUARE DIFFUSERS

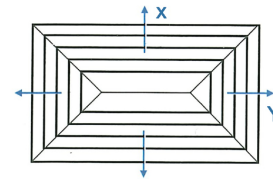
| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-----------------|-----------------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 6" X 6" | Total CFM | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | CFM each side - X | 13 | 19 | 25 | 32 | 38 | 44 | 50 | 57 |
| AK = .13 | Throw each side - X | 2.3 | 3.5 | 4.7 | 5.9 | 6.11 | 7.13 | 8.15 | 9.17 |
| | Total CFM | 112 | 168 | 224 | 280 | 336 | 392 | 448 | 504 |
| 9" X 9" | CFM each side - X | 28 | 42 | 56 | 70 | 84 | 98 | 112 | 126 |
| | Throw each side - X | 2.3 | 3.5 | 4.8 | 5.10 | 6.12 | 7.14 | 9.17 | 9.18 |
| 12" X 12" | Total CFM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| | CFM each side - X | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| AK = .5 | Throw each side - X | 2.4 | 4.7 | 5.9 | 6.11 | 7.14 | 8.16 | 10.19 | 11.21 |
| | Total CFM | 312 | 468 | 624 | 780 | 936 | 1092 | 1248 | 1404 |
| 15" X 15" | CFM each side - X | 78 | 117 | 156 | 195 | 235 | 273 | 312 | 351 |
| | Throw each side - X | 3.5 | 4.8 | 5.10 | 7.13 | 8.16 | 10.19 | 11.21 | 12.24 |
| AK = .79 | Total CFM | 450 | 675 | 900 | 1125 | 1350 | 1575 | 1800 | 2025 |
| | CFM each side - X | 113 | 169 | 225 | 281 | 338 | 394 | 450 | 507 |
| 18" X 18" | Throw each side - X | 3.5 | 4.8 | 5.10 | 7.13 | 9.17 | 10.20 | 12.24 | 13.26 |
| | Total CFM | 612 | 918 | 1224 | 1530 | 1836 | 2142 | 2448 | 2754 |
| 21" X 21" | CFM each side - X | 153 | 229 | 306 | 382 | 459 | 535 | 612 | 689 |
| | Throw each side - X | 3.5 | 4.8 | 6.11 | 7.13 | 9.18 | 11.21 | 13.25 | 14.28 |
| AK = 1.54 | Total CFM | 800 | 1200 | 1600 | 2000 | 2400 | 2800 | 3200 | 3600 |
| | CFM each side - X | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| 24" X 24" | Throw each side - X | 3.6 | 5.9 | 6.12 | 7.14 | 10.19 | 11.22 | 13.26 | 15.30 |

- Diffuser selection which will result in noise criteria not exceeding approximately 20 dB based on a room attenuation of 8 dB.
- Resulting Criteria not exceeding 30 dB.
- Resulting Criteria not exceeding approximately 40 dB.
- Resulting Criteria not exceeding 40 dB.

PERFORMANCE DATA 4 WAY RECTANGULAR DIFFUSER

PERFORMANCE DATA 4 WAY RECTANGULAR DIFFUSER

Model 4RCD



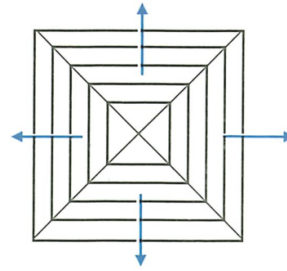
FOUR- WAY THROW RECTANGULAR DIFFUSERS

| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-----------------|---|--------------|--------------|--------------|-------------|--------------|--------------|---------------|---------------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 6" X 9" | Total CFM | 75 | 113 | 150 | 190 | 225 | 260 | 300 | 338 |
| | CFM each side - X | 25 | 38 | 50 | 65 | 75 | 85 | 100 | 113 |
| | CFM each side - Y | 13 | 19 | 25 | 30 | 38 | 45 | 50 | 56 |
| | AK = .19 Throw each side - X Throw each side -Y | 2.4 1.2 | 3.6 2.3 | 4.8 2.4 | 5.10 3.5 | 6.11 3.6 | 7.13 4.7 | 8.15 4.8 | 9.17 5.9 |
| 6" X 12" | Total CFM | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| | CFM each side - X | 37 | 56 | 75 | 93 | 112 | 131 | 150 | 169 |
| | CFM each side - Y | 13 | 19 | 25 | 32 | 38 | 44 | 50 | 56 |
| | AK = .25 Throw each side - X Throw each side -Y | 2.4 2.3 | 4.7 2.3 | 5.9 2.4 | 6.11 3.5 | 7.13 3.6 | 8.15 4.7 | 9.17 4.8 | 10.19 5.9 |
| 6" X 15" | Total CFM | 125 | 188 | 250 | 312 | 375 | 438 | 500 | 563 |
| | CFM each side - X | 50 | 75 | 100 | 124 | 150 | 175 | 200 | 226 |
| | CFM each side - Y | 13 | 19 | 25 | 32 | 38 | 44 | 50 | 56 |
| | AK = .32 Throw each side - X Throw each side -Y | 3.5 1.2 | 4.7 2.3 | 5.9 2.4 | 6.11 3.5 | 7.13 3.5 | 8.15 3.6 | 9.18 4.7 | 10.20 4.8 |
| 6" X 18" | Total CFM | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| | CFM each side - X | 62 | 94 | 125 | 156 | 188 | 218 | 250 | 280 |
| | CFM each side - Y | 13 | 19 | 25 | 32 | 38 | 44 | 50 | 58 |
| | AK = .38 Throw each side - X Throw each side -Y | 3.5 1.2 | 4.7 2.3 | 5.9 2.4 | 6.12 2.4 | 7.14 3.5 | 8.16 3.6 | 9.18 4.7 | 11.21 4.8 |
| 6" X 21" | Total CFM | 175 | 263 | 350 | 438 | 525 | 612 | 700 | 788 |
| | CFM each side - X | 75 | 112 | 150 | 187 | 224 | 262 | 300 | 335 |
| | CFM each side - Y | 13 | 19 | 25 | 32 | 38 | 44 | 50 | 59 |
| | AK = .44 Throw each side - X Throw each side -Y | 3.5 1.2 | 4.7 2.3 | 5.10 2.3 | 6.12 2.4 | 7.14 3.5 | 8.16 3.6 | 9.17 4.7 | 10.19 4.7 |
| 6" X 24" | Total CFM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| | CFM each side - X | 87 | 131 | 174 | 218 | 261 | 305 | 348 | 392 |
| | CFM each side - Y | 13 | 19 | 26 | 32 | 39 | 45 | 52 | 58 |
| | AK = .5 Throw each side - X Throw each side -Y | 3.5 1.2 | 4.7 2.3 | 5.10 2.3 | 6.12 2.4 | 8.15 3.5 | 9.17 3.5 | 10.19 3.6 | 11.22 4.7 |
| 9" X 12" | Total CFM | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| | CFM each side - X | 47 | 70 | 94 | 118 | 141 | 165 | 188 | 209 |
| | CFM each side - Y | 28 | 42 | 56 | 70 | 84 | 98 | 112 | 129 |
| | AK = .38 Throw each side - X Throw each side -Y | 2.4 2.3 | 3.6 3.5 | 5.9 4.8 | 6.11 5.9 | 7.13 6.11 | 8.15 6.12 | 9.17 7.14 | 9.18 8.16 |
| 9" X 15" | Total CFM | 188 | 282 | 375 | 470 | 563 | 657 | 750 | 844 |
| | CFM each side - X | 66 | 99 | 132 | 165 | 198 | 230 | 263 | 295 |
| | CFM each side - Y | 28 | 42 | 56 | 70 | 84 | 99 | 112 | 127 |
| | AK = .47 Throw each side - X Throw each side -Y | 3.5 2.4 | 4.7 3.6 | 5.10 4.8 | 6.12 5.9 | 7.14 6.11 | 8.16 7.13 | 10.19 8.15 | 11.21 9.17 |
| 9" X 18" | Total CFM | 225 | 338 | 450 | 562 | 675 | 788 | 900 | 1013 |
| | CFM each side - X | 85 | 127 | 169 | 211 | 254 | 296 | 338 | 380 |
| | CFM each side - Y | 28 | 42 | 56 | 70 | 84 | 98 | 112 | 127 |
| | AK = .57 Throw each side - X Throw each side -Y | 3.5 2.4 | 4.8 3.6 | 5.10 4.7 | 6.12 5.9 | 7.14 6.11 | 9.17 7.13 | 10.20 7.14 | 11.22 8.16 |

MODEL : 4-RCD CONT.

| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-----------------|--|--------------|--------------|--------------|--------------|---------------|---------------|----------------|----------------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 9" X 21" | Total CFM | 262 | 393 | 524 | 656 | 786 | 917 | 1050 | 1179 |
| | CFM each side - X | 104 | 155 | 200 | 258 | 309 | 360 | 413 | 466 |
| | CFM each side - Y | 27 | 42 | 56 | 70 | 84 | 98 | 112 | 124 |
| | AK = .66 Throw each side - X Throw each side -Y | 3.5 2.4 | 4.8 3.5 | 5.10 4.7 | 7.13 5.9 | 8.16 6.11 | 9.18 7.13 | 10.20 7.14 | 12.23 8.16 |
| 9" X 24" | Total CFM | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 | 1350 |
| | CFM each side - X | 125 | 187 | 249 | 311 | 374 | 436 | 498 | 560 |
| | CFM each side - Y | 25 | 38 | 51 | 64 | 76 | 89 | 102 | 115 |
| | AK = .76 Throw each side - X Throw each side -Y | 3.5 2.3 | 4.8 3.5 | 6.11 4.7 | 7.13 4.8 | 8.16 5.10 | 10.19 6.11 | 11.21 7.13 | 12.24 7.14 |
| 12" X 15" | Total CFM | 250 | 375 | 500 | 625 | 750 | 875 | 1000 | 1125 |
| | CFM each side - X | 75 | 113 | 150 | 188 | 225 | 263 | 300 | 338 |
| | CFM each side - Y | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | AK = .63 Throw each side - X Throw each side -Y | 3.5 2.4 | 4.8 4.7 | 5.10 5.9 | 7.13 6.11 | 8.15 7.13 | 9.17 8.15 | 10.20 9.17 | 11.22 10.19 |
| 12" X 18" | Total CFM | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 | 1350 |
| | CFM each side - X | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 452 |
| | CFM each side - Y | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 223 |
| | AK = .76 Throw each side - X Throw each side -Y | 3.6 3.5 | 4.8 4.7 | 6.11 5.9 | 7.14 6.11 | 8.16 7.13 | 10.19 8.15 | 11.22 9.18 | 13.25 10.20 |
| 12" X 21" | Total CFM | 350 | 525 | 700 | 875 | 1050 | 1225 | 1400 | 1575 |
| | CFM each side - X | 124 | 188 | 250 | 313 | 375 | 438 | 500 | 559 |
| | CFM each side - Y | 51 | 75 | 100 | 125 | 150 | 175 | 200 | 229 |
| | AK = .88 Throw each side - X Throw each side -Y | 3.6 3.5 | 5.9 4.7 | 6.12 5.9 | 8.15 6.11 | 9.18 7.13 | 11.21 8.16 | 12.24 9.18 | 13.26 10.20 |
| 12" X 24" | Total CFM | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 |
| | CFM each side - X | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| | CFM each side - Y | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | AK = 1.0 Throw each side - X Throw each side -Y | 4.7 3.5 | 5.10 4.7 | 7.13 5.9 | 8.16 6.11 | 10.19 7.13 | 11.22 8.16 | 13.25 9.18 | 14.28 10.20 |
| 15" X 18" | Total CFM | 375 | 563 | 750 | 938 | 1125 | 1313 | 1500 | 1688 |
| | CFM each side - X | 111 | 165 | 219 | 274 | 329 | 384 | 438 | 498 |
| | CFM each side - Y | 77 | 117 | 156 | 195 | 234 | 273 | 312 | 346 |
| | AK = .95 Throw each side - X Throw each side -Y | 3.6 3.5 | 4.8 4.7 | 6.11 5.10 | 7.14 7.13 | 8.16 8.15 | 10.19 9.17 | 11.22 10.20 | 13.25 11.22 |
| 15" X 21" | Total CFM | 438 | 657 | 876 | 1095 | 1313 | 1533 | 1750 | 1969 |
| | CFM each side - X | 140 | 211 | 282 | 353 | 422 | 494 | 563 | 630 |
| | CFM each side - Y | 79 | 118 | 156 | 195 | 235 | 273 | 312 | 355 |
| | AK = 1.1 Throw each side - X Throw each side -Y | 3.6 3.5 | 5.9 4.8 | 6.12 5.10 | 8.15 7.13 | 9.18 8.15 | 11.21 9.18 | 12.24 10.20 | 14.27 12.23 |
| 15" X 24" | Total CFM | 500 | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 |
| | CFM each side - X | 173 | 259 | 345 | 431 | 518 | 604 | 690 | 776 |
| | CFM each side - Y | 77 | 116 | 155 | 194 | 232 | 271 | 310 | 349 |
| | AK = 1.26 Throw each side - X Throw each side -Y | 4.7 3.5 | 5.10 4.8 | 7.13 5.10 | 8.16 7.13 | 10.19 8.15 | 11.22 9.18 | 13.26 10.20 | 15.29 12.23 |
| 18" X 21" | Total CFM | 525 | 786 | 1048 | 1310 | 1572 | 1834 | 2096 | 2363 |
| | CFM each side - X | 150 | 224 | 299 | 374 | 448 | 523 | 598 | 674 |
| | CFM each side - Y | 113 | 169 | 225 | 281 | 338 | 394 | 450 | 507 |
| | AK = 1.32 Throw each side - X Throw each side -Y | 3.6 3.5 | 4.8 4.7 | 6.11 5.10 | 7.13 6.12 | 8.16 7.14 | 10.19 9.17 | 11.21 10.19 | 12.24 11.21 |
| 18" X 24" | Total CFM | 600 | 900 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 |
| | CFM each side - X | 183 | 275 | 366 | 458 | 549 | 641 | 732 | 824 |
| | CFM each side - Y | 117 | 175 | 234 | 292 | 351 | 409 | 468 | 526 |
| | AK = 1.5 Throw each side - X Throw each side -Y | 3.6 3.5 | 5.9 4.8 | 6.12 5.10 | 8.15 7.13 | 9.17 8.16 | 10.20 9.18 | 12.23 10.20 | 13.26 12.23 |

Model 4CCD



ROUND NECK SIZES. SQUARE DIFFUSERS

| NECK SIZE (Inches) | Fits on Square neck | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|----------------------|---------------------|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | Total Press WG. | 0.003 | 0.007 | 0.012 | 0.018 | 0.026 | 0.036 | 0.047 | 0.059 |
| 5 Dia. AK = .159 | 9" x 9" | Total CFM | 28 | 41 | 55 | 68 | 82 | 95 | 109 | 123 |
| | | CFM each side | 7 | 10 | 14 | 17 | 20 | 24 | 27 | 31 |
| | | Throw each side | 1-2 | 2-3 | 2-3 | 2-4 | 3-5 | 3-5 | 3-6 | 4-7 |
| 6 Dia. AK = .211 | 9" x 9" | Total Press WG. | 0.004 | 0.009 | 0.015 | 0.024 | 0.034 | 0.045 | 0.06 | 0.075 |
| | | Total CFM | 40 | 59 | 78 | 98 | 118 | 137 | 157 | 177 |
| | | CFM each side | 10 | 15 | 19 | 25 | 30 | 34 | 39 | 45 |
| 8 Dia. AK = .238 | 9" x 9" | Total Press WG. | 0.007 | 0.016 | 0.028 | 0.043 | 0.062 | 0.083 | 0.11 | 0.14 |
| | | Total CFM | 70 | 105 | 140 | 175 | 210 | 245 | 280 | 315 |
| | | CFM each side | 18 | 26 | 35 | 44 | 53 | 61 | 70 | 79 |
| 10 Dia. AK = .45 | 12" x 12" | Total Press WG. | 0.006 | 0.013 | 0.023 | 0.035 | 0.05 | 0.067 | 0.086 | 0.11 |
| | | Total CFM | 109 | 164 | 218 | 273 | 327 | 382 | 436 | 491 |
| | | CFM each side | 28 | 41 | 55 | 68 | 82 | 96 | 109 | 123 |
| 12 Dia. AK = .683 | 15" x 15" | Total Press WG. | 0.005 | 0.012 | 0.02 | 0.031 | 0.043 | 0.058 | 0.075 | 0.094 |
| | | Total CFM | 157 | 236 | 314 | 393 | 471 | 550 | 628 | 707 |
| | | CFM each side | 40 | 59 | 79 | 98 | 118 | 138 | 157 | 177 |
| 14 Dia. AK = .696 | 15" x 15" | Total Press WG. | 0.009 | 0.019 | 0.032 | 0.049 | 0.069 | 0.093 | 0.12 | 0.15 |
| | | Total CFM | 214 | 321 | 428 | 535 | 642 | 749 | 856 | 963 |
| | | CFM each side | 54 | 80 | 107 | 134 | 160 | 187 | 214 | 241 |
| 16 Dia. AK = .977 | 18" X 18" | Total Press WG. | 0.008 | 0.017 | 0.029 | 0.045 | 0.063 | 0.084 | 0.11 | 0.134 |
| | | Total CFM | 279 | 416 | 558 | 697 | 832 | 976 | 1116 | 1256 |
| | | CFM each side | 70 | 104 | 140 | 174 | 208 | 244 | 279 | 314 |
| 8 Dia. AK = .347 | 21" X 21" | Total Press WG. | 0.003 | 0.006 | 0.011 | 0.017 | 0.024 | 0.033 | 0.042 | 0.054 |
| | | Total CFM | 70 | 105 | 140 | 175 | 210 | 245 | 280 | 315 |
| | | CFM each side | 18 | 26 | 35 | 44 | 53 | 61 | 70 | 79 |
| | | Throw each side | 2-3 | 2-4 | 3-5 | 3-6 | 4-7 | 4-8 | 5-9 | 5-10 |

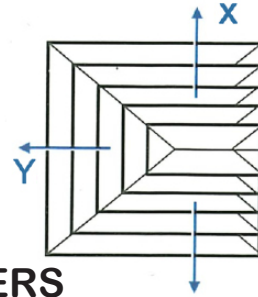
MODEL : 4-CCD ROUND NECK SIZES CONT.

| NECK SIZE (Inches) | Fits on Square neck | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|----------------------|---------------------|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | Total Press WG. | 0.003 | 0.007 | 0.014 | 0.021 | 0.03 | 0.039 | 0.051 | 0.064 |
| 10 Dia. AK = .496 | 21" X 21" | Total CFM | 109 | 164 | 218 | 273 | 327 | 382 | 436 | 491 |
| | | CFM each side | 28 | 41 | 55 | 68 | 82 | 96 | 109 | 123 |
| | | Throw each side | 2-4 | 3-5 | 4-7 | 4-8 | 5-10 | 6-11 | 7-13 | 8-15 |
| 12 Dia. AK = .699 | 21" X 21" | Total Press WG. | 0.004 | 0.009 | 0.016 | 0.024 | 0.034 | 0.046 | 0.059 | 0.074 |
| | | Total CFM | 157 | 236 | 314 | 393 | 471 | 550 | 628 | 707 |
| | | CFM each side | 40 | 59 | 79 | 98 | 118 | 138 | 157 | 177 |
| 14 Dia. AK = .952 | 21 X 21 | Total Press WG. | 0.005 | 0.01 | 0.018 | 0.028 | 0.033 | 0.053 | 0.069 | 0.086 |
| | | Total CFM | 214 | 321 | 428 | 535 | 642 | 749 | 856 | 963 |
| | | CFM each side | 54 | 80 | 107 | 134 | 160 | 187 | 214 | 241 |
| 16 Dia. AK = 1.13 | 21 X 21 | Total Press WG. | 0.005 | 0.012 | 0.020 | 0.031 | 0.044 | 0.059 | 0.076 | 0.095 |
| | | Total CFM | 279 | 416 | 558 | 697 | 832 | 976 | 1116 | 1256 |
| | | CFM each side | 70 | 104 | 140 | 174 | 208 | 244 | 279 | 314 |
| 18 Dia. AK = 1.29 | 21 X 21 | Total Press WG. | 0.007 | 0.015 | 0.025 | 0.038 | 0.054 | 0.072 | 0.092 | 0.11 |
| | | Total CFM | 354 | 531 | 708 | 885 | 1062 | 1239 | 1416 | 1593 |
| | | CFM each side | 89 | 133 | 177 | 221 | 265 | 310 | 354 | 399 |
| 20 Dia. AK = 1.35 | 21 X 21 | Total Press WG. | 0.009 | 0.02 | 0.034 | 0.052 | 0.073 | 0.098 | 0.13 | 0.16 |
| | | Total CFM | 436 | 654 | 872 | 1090 | 1308 | 1526 | 1744 | 1962 |
| | | CFM each side | 109 | 164 | 218 | 272 | 327 | 382 | 436 | 491 |
| | | Throw each side | 3-6 | 5-9 | 6-12 | 8-15 | 9-17 | 10-20 | 12-23 | 13-26 |

- Diffuser selection which will result in noise criteria not exceeding approximately 20 dB based on a room attenuation of 8 dB.
- Resulting Criteria not exceeding 30 dB.
- Resulting Criteria not exceeding approximately 40 dB.
- Resulting Criteria not exceeding 40 dB.

PERFORMANCE DATA 3 WAY SQUARE DIFFUSER

Model 3SCD

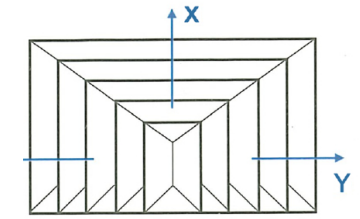


THREE- WAY THROW SQUARE DIFFUSERS

| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-----------------|-----------------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 6" X 6" | Total CFM | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | CFM each side - X | 19 | 28 | 38 | 47 | 56 | 66 | 75 | 85 |
| | CFM each side - Y | 13 | 19 | 25 | 32 | 38 | 44 | 50 | 56 |
| | Throw each side - X | 2-3 | 3-5 | 4-7 | 4-8 | 5-10 | 6-11 | 7-13 | 8-15 |
| | Throw each side - Y | 2-3 | 2-4 | 3-5 | 3-6 | 4-8 | 5-9 | 5-10 | 6-11 |
| 9" X 9" | Total CFM | 112 | 168 | 224 | 280 | 336 | 392 | 448 | 504 |
| | CFM each side - X | 42 | 63 | 84 | 105 | 126 | 147 | 168 | 189 |
| | CFM each side - Y | 28 | 43 | 56 | 70 | 85 | 98 | 112 | 126 |
| | Throw each side - X | 2-4 | 3-6 | 4-8 | 5-10 | 6-11 | 7-13 | 8-15 | 9-17 |
| | Throw each side - Y | 2-3 | 3-5 | 4-7 | 4-8 | 5-10 | 6-12 | 7-13 | 8-15 |
| 12" X 12" | Total CFM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| | CFM each side - X | 75 | 113 | 150 | 188 | 225 | 263 | 300 | 338 |
| | CFM each side - Y | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | Throw each side - X | 3-5 | 4-7 | 5-9 | 6-12 | 7-14 | 8-16 | 9-18 | 10-20 |
| | Throw each side - Y | 2-4 | 3-6 | 4-8 | 5-10 | 6-12 | 7-14 | 8-16 | 9-18 |
| 15" X 15" | Total CFM | 312 | 468 | 624 | 780 | 936 | 1092 | 1248 | 1404 |
| | CFM each side - X | 117 | 175 | 235 | 293 | 350 | 410 | 469 | 527 |
| | CFM each side - Y | 78 | 118 | 150 | 195 | 235 | 272 | 312 | 351 |
| | Throw each side - X | 3-6 | 4-8 | 6-11 | 7-13 | 8-16 | 10-19 | 11-21 | 13-25 |
| | Throw each side - Y | 3-5 | 4-7 | 5-9 | 6-11 | 7-14 | 8-16 | 10-19 | 18-21 |
| 18" X 18" | Total CFM | 450 | 675 | 900 | 1125 | 1350 | 1575 | 1800 | 2025 |
| | CFM each side - X | 169 | 253 | 338 | 422 | 506 | 591 | 675 | 760 |
| | CFM each side - Y | 113 | 169 | 225 | 281 | 338 | 394 | 450 | 506 |
| | Throw each side - X | 4-7 | 5-9 | 7-13 | 8-16 | 10-19 | 11-22 | 13-25 | 14-28 |
| | Throw each side - Y | 3-5 | 4-8 | 5-10 | 6-12 | 8-15 | 9-17 | 10-20 | 11-22 |
| 21" X 21" | Total CFM | 612 | 918 | 1224 | 1530 | 1836 | 2142 | 2448 | 2754 |
| | CFM each side - X | 230 | 345 | 459 | 574 | 689 | 804 | 919 | 1033 |
| | CFM each side - Y | 153 | 230 | 306 | 382 | 459 | 535 | 612 | 689 |
| | Throw each side - X | 4-7 | 5-10 | 7-13 | 9-17 | 10-20 | 12-23 | 13-26 | 15-29 |
| | Throw each side - Y | 3-6 | 4-8 | 6-11 | 7-14 | 8-16 | 10-19 | 11-22 | 13-25 |
| 24" X 24" | Total CFM | 800 | 1200 | 1600 | 2000 | 2400 | 2800 | 3200 | 3600 |
| | CFM each side - X | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 | 1350 |
| | CFM each side - Y | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| | Throw each side - X | 4-8 | 6-11 | 8-15 | 10-19 | 11-22 | 13-26 | 15-30 | 17-33 |
| | Throw each side - Y | 3-6 | 5-9 | 6-12 | 8-15 | 9-18 | 11-21 | 12-24 | 14-27 |

PERFORMANCE DATA 3 WAY RECTANGULAR DIFFUSER

Model 3RCD



THREE- WAY THROW RECTANGULAR DIFFUSERS

| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-----------------|-----------------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 6" X 9" | Total CFM | 75 | 113 | 150 | 190 | 225 | 263 | 300 | 338 |
| | CFM each side - X | 28 | 43 | 56 | 70 | 85 | 98 | 112 | 125 |
| | CFM each side - Y | 25 | 35 | 47 | 60 | 70 | 83 | 94 | 107 |
| | Throw each side - X | 2-3 | 2-4 | 3-5 | 3-6 | 4-8 | 5-9 | 5-10 | 6-11 |
| | Throw each side - Y | 1-2 | 2-3 | 2-4 | 3-5 | 3-6 | 4-7 | 4-8 | 5-10 |
| 6" X 12" | Total CFM | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| | CFM each side - X | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | CFM each side - Y | 25 | 38 | 50 | 63 | 75 | 88 | 100 | 113 |
| | Throw each side - X | 2-3 | 2-4 | 3-6 | 4-7 | 4-8 | 5-10 | 6-11 | 7-13 |
| | Throw each side - Y | 1-2 | 2-3 | 2-4 | 3-5 | 3-6 | 4-7 | 4-8 | 5-9 |
| 6" X 15" | Total CFM | 125 | 188 | 250 | 312 | 375 | 438 | 500 | 563 |
| | CFM each side - X | 79 | 118 | 156 | 195 | 235 | 273 | 312 | 352 |
| | CFM each side - Y | 24 | 35 | 47 | 59 | 70 | 83 | 94 | 106 |
| | Throw each side - X | 2-4 | 3-5 | 4-7 | 5-9 | 5-10 | 6-12 | 7-14 | 8-15 |
| | Throw each side - Y | 1-2 | 2-3 | 2-4 | 3-5 | 3-6 | 4-7 | 4-8 | 5-9 |
| 6" X 18" | Total CFM | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| | CFM each side - X | 113 | 169 | 225 | 281 | 338 | 394 | 450 | 506 |
| | CFM each side - Y | 19 | 28 | 38 | 47 | 56 | 66 | 75 | 85 |
| | Throw each side - X | 2-4 | 3-6 | 4-8 | 5-10 | 6-12 | 7-14 | 8-16 | 9-18 |
| | Throw each side - Y | 1-2 | 2-3 | 2-4 | 2-4 | 3-5 | 3-6 | 4-7 | 4-8 |
| 6" X 21" | Total CFM | 175 | 263 | 350 | 438 | 525 | 612 | 700 | 788 |
| | CFM each side - X | 154 | 230 | 306 | 382 | 459 | 535 | 612 | 694 |
| | CFM each side - Y | 11 | 17 | 22 | 28 | 33 | 39 | 44 | 47 |
| | Throw each side - X | 3-6 | 5-9 | 7-13 | 7-14 | 9-17 | 10-20 | 12-23 | 13-26 |
| | Throw each side - Y | 1-2 | 1-2 | 2-3 | 2-4 | 2-4 | 3-5 | 3-6 | 3-6 |
| 6" X 24" | Total CFM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| | CFM each side - X | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | CFM each side - Y | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| | Throw each side - X | 2-3 | 2-4 | 3-5 | 3-6 | 4-7 | 4-8 | 5-9 | 5-10 |
| | Throw each side - Y | 4-7 | 5-10 | 7-13 | 8-16 | 10-20 | 12-23 | 13-26 | 15-29 |
| 9" X 12" | Total CFM | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| | CFM each side - X | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | CFM each side - Y | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | Throw each side - X | 2-4 | 3-6 | 4-8 | 5-10 | 6-12 | 7-14 | 8-16 | 9-18 |
| | Throw each side - Y | 2-4 | 3-6 | 4-8 | 5-10 | 6-12 | 7-14 | 8-16 | 9-18 |
| 9" X 15" | Total CFM | 188 | 282 | 375 | 470 | 563 | 657 | 750 | 844 |
| | CFM each side - X | 79 | 118 | 156 | 195 | 235 | 273 | 312 | 355 |
| | CFM each side - Y | 55 | 82 | 110 | 137 | 164 | 192 | 219 | 245 |
| | Throw each side - X | 3-6 | 5-9 | 6-11 | 7-14 | 9-17 | 10-19 | 11-22 | 13-25 |
| | Throw each side - Y | 2-4 | 3-6 | 4-8 | 5-10 | 6-12 | 7-14 | 8-16 | 9-17 |
| 9" X 18" | Total CFM | 225 | 338 | 450 | 562 | 675 | 788 | 900 | 1013 |
| | CFM each side - X | 113 | 169 | 225 | 281 | 338 | 394 | 450 | 507 |
| | CFM each side - Y | 56 | 85 | 113 | 140 | 169 | 197 | 225 | 253 |
| | Throw each side - X | 3-6 | 5-9 | 6-12 | 8-15 | 9-18 | 11-21 | 12-24 | 14-27 |
| | Throw each side - Y | 2-4 | 3-5 | 4-7 | 4-8 | 5-10 | 6-12 | 7-13 | 8-15 |

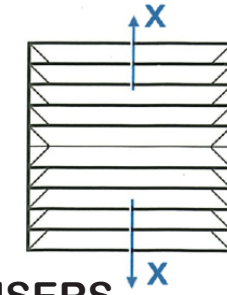
PERFORMANCE DATA 3 WAY RECTANGULAR DIFFUSER

MODEL : 3-RCD CONT.

| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-----------------|-----------------------|---------------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 9" X 21" | Total CFM | 262 | 393 | 524 | 656 | 786 | 917 | 1050 | 1179 |
| | CFM each side - X | 152 | 230 | 306 | 382 | 459 | 535 | 612 | 684 |
| | CFM each side - Y | 55 | 82 | 109 | 137 | 163 | 191 | 218 | 248 |
| | AK = .66 | Throw each side - X | 4.7 | 6.11 | 7.14 | 9.18 | 11.21 | 13.25 | 14.28 |
| | Throw each side - Y | 2.3 | 3.5 | 3.6 | 4.7 | 5.9 | 5.10 | 6.11 | 7.13 |
| 9" X 24" | Total CFM | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 | 1350 |
| | CFM each side - X | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| | CFM each side - Y | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| | AK = .76 | Throw each side - X | 2.4 | 3.6 | 4.8 | 5.10 | 6.12 | 7.14 | 8.16 |
| | Throw each side - Y | 2.4 | 3.6 | 4.8 | 5.10 | 6.12 | 7.14 | 8.16 | 9.18 |
| 12" X 15" | Total CFM | 250 | 375 | 500 | 625 | 750 | 875 | 1000 | 1125 |
| | CFM each side - X | 78 | 118 | 156 | 195 | 235 | 273 | 312 | 349 |
| | CFM each side - Y | 86 | 129 | 172 | 215 | 258 | 301 | 344 | 388 |
| | AK = .63 | Throw each side - X | 3.5 | 4.7 | 5.10 | 6.12 | 8.15 | 9.17 | 10.19 |
| | Throw each side - Y | 3.6 | 4.8 | 6.11 | 7.13 | 8.16 | 10.19 | 11.21 | 12.24 |
| 12" X 18" | Total CFM | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 | 1350 |
| | CFM each side - X | 114 | 169 | 225 | 281 | 338 | 394 | 450 | 513 |
| | CFM each side - Y | 93 | 140 | 188 | 235 | 281 | 328 | 375 | 419 |
| | AK = .76 | Throw each side - X | 3.6 | 5.9 | 6.12 | 7.14 | 9.17 | 10.20 | 12.23 |
| | Throw each side - Y | 3.5 | 4.7 | 5.10 | 6.12 | 7.14 | 9.17 | 10.19 | 11.21 |
| 12" X 21" | Total CFM | 350 | 525 | 700 | 875 | 1050 | 1225 | 1400 | 1575 |
| | CFM each side - X | 154 | 230 | 306 | 382 | 459 | 535 | 612 | 693 |
| | CFM each side - Y | 98 | 148 | 197 | 242 | 296 | 345 | 394 | 441 |
| | AK = .88 | Throw each side - X | 4.7 | 5.10 | 7.14 | 9.17 | 10.20 | 12.23 | 14.27 |
| | Throw each side - Y | 2.4 | 3.6 | 4.8 | 5.10 | 6.12 | 7.14 | 8.16 | 9.18 |
| 12" X 24" | Total CFM | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 |
| | CFM each side - X | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| | CFM each side - Y | 125 | 188 | 250 | 313 | 375 | 438 | 500 | 563 |
| | AK = 1.0 | Throw each side - X | 4.8 | 6.11 | 8.15 | 10.19 | 12.23 | 13.26 | 15.30 |
| | Throw each side - Y | 4.7 | 5.9 | 7.13 | 8.16 | 10.19 | 11.22 | 13.25 | 14.27 |
| 15" X 18" | Total CFM | 375 | 563 | 750 | 938 | 1125 | 1313 | 1500 | 1688 |
| | CFM each side - X | 113 | 169 | 225 | 281 | 338 | 394 | 450 | 506 |
| | CFM each side - Y | 131 | 197 | 263 | 328 | 394 | 460 | 525 | 591 |
| | AK = .95 | Throw each side - X | 3.5 | 4.8 | 6.11 | 7.13 | 8.16 | 9.18 | 11.21 |
| | Throw each side - Y | 3.6 | 5.9 | 6.12 | 8.15 | 9.18 | 11.21 | 12.24 | 14.27 |
| 15" X 21" | Total CFM | 438 | 657 | 876 | 1095 | 1313 | 1533 | 1750 | 1969 |
| | CFM each side - X | 154 | 230 | 306 | 382 | 459 | 535 | 612 | 689 |
| | CFM each side - Y | 142 | 214 | 285 | 357 | 428 | 499 | 569 | 640 |
| | AK = 1.1 | Throw each side - X | 4.7 | 5.10 | 7.13 | 8.16 | 10.19 | 11.21 | 12.24 |
| | Throw each side - Y | 3.6 | 5.9 | 6.12 | 8.15 | 9.17 | 10.20 | 12.23 | 13.26 |
| 15" X 24" | Total CFM | 500 | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 |
| | CFM each side - X | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| | CFM each side - Y | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| | AK = 1.26 | Throw each side - X | 4.7 | 6.11 | 7.14 | 9.18 | 11.21 | 12.24 | 14.28 |
| | Throw each side - Y | 3.6 | 4.8 | 6.11 | 7.13 | 8.16 | 9.18 | 11.21 | 12.24 |
| 18" X 21" | Total CFM | 525 | 786 | 1048 | 1310 | 1572 | 1834 | 2096 | 2363 |
| | CFM each side - X | 153 | 230 | 306 | 382 | 459 | 535 | 612 | 686 |
| | CFM each side - Y | 186 | 278 | 371 | 464 | 557 | 650 | 742 | 839 |
| | AK = 1.32 | Throw each side - X | 3.6 | 4.8 | 6.11 | 7.14 | 8.16 | 10.19 | 11.22 |
| | Throw each side - Y | 4.7 | 5.10 | 7.13 | 9.17 | 10.20 | 12.23 | 13.26 | 15.30 |
| 18" X 24" | Total CFM | 600 | 900 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 |
| | CFM each side - X | 250 | 375 | 500 | 625 | 750 | 875 | 1000 | 1125 |
| | CFM each side - Y | 175 | 263 | 350 | 438 | 525 | 613 | 700 | 788 |
| | AK = 1.5 | Throw each side - X | 4.8 | 6.12 | 8.16 | 10.20 | 12.23 | 14.27 | 16.31 |
| | Throw each side - Y | 3.6 | 5.9 | 6.11 | 7.14 | 9.17 | 10.19 | 11.21 | 13.25 |

PERFORMANCE DATA 2 WAY SQUARE DIFFUSER

Model 2SCD



TWO-WAY THROW SQUARE DIFFUSERS

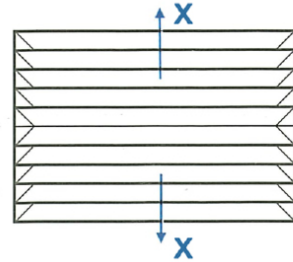
| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-----------------|-----------------------|---------------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 6" X 6" | Total CFM | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | CFM each side - X | 25 | 38 | 50 | 63 | 75 | 88 | 100 | 113 |
| | AK = .13 | Throw each side - X | 2.4 | 3.6 | 4.7 | 5.9 | 6.11 | 7.13 | 8.15 |
| 9" X 9" | Total CFM | 112 | 168 | 224 | 280 | 336 | 392 | 448 | 504 |
| | CFM each side - X | 56 | 84 | 112 | 140 | 168 | 196 | 224 | 252 |
| | AK = .28 | Throw each side - X | 3.5 | 4.7 | 5.9 | 6.12 | 7.14 | 8.16 | 9.18 |
| 12" X 12" | Total CFM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| | CFM each side - X | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| | AK = .5 | Throw each side - X | 3.6 | 4.9 | 6.11 | 7.14 | 9.17 | 10.19 | 11.22 |
| 15" X 15" | Total CFM | 312 | 468 | 624 | 780 | 936 | 1092 | 1248 | 1404 |
| | CFM each side - X | 156 | 234 | 312 | 390 | 468 | 546 | 624 | 702 |
| | AK = .79 | Throw each side - X | 4.7 | 5.10 | 7.13 | 8.16 | 11.19 | 11.22 | 13.25 |
| 18" X 18" | Total CFM | 450 | 675 | 900 | 1125 | 1350 | 1575 | 1800 | 2025 |
| | CFM each side - X | 225 | 338 | 450 | 563 | 675 | 788 | 900 | 1013 |
| | AK = 1.13 | Throw each side - X | 4.8 | 6.11 | 7.14 | 9.18 | 11.21 | 13.25 | 14.28 |
| 21" X 21" | Total CFM | 612 | 918 | 1224 | 1530 | 1836 | 2142 | 2448 | 2754 |
| | CFM each side - X | 306 | 459 | 612 | 765 | 918 | 1071 | 1225 | 1377 |
| | AK = 1.54 | Throw each side - X | 5.9 | 6.12 | 8.16 | 10.20 | 13.25 | 15.29 | 17.33 |
| 24" X 24" | Total CFM | 800 | 1200 | 1600 | 2000 | 2400 | 2800 | 3200 | 3600 |
| | CFM each side - X | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 |
| | AK = 2 | Throw each side - X | 5.10 | 7.14 | 10.19 | 12.23 | 14.28 | 17.33 | 19.37 |

- Diffuser selection which will result in noise criteria not exceeding. Approximately 20 dB based on a room attenuation of 8 dB.
- Resulting Criteria not exceeding 30 dB.
- Resulting Criteria not exceeding approximately 40 dB.
- Resulting Criteria not exceeding 40 dB.

PERFORMANCE DATA 2 WAY RECTANGULAR DIFFUSER

PERFORMANCE DATA 2 WAY RECTANGULAR DIFFUSER

Model 2RCD



TWO- WAY THROW RECTANGULAR DIFFUSERS

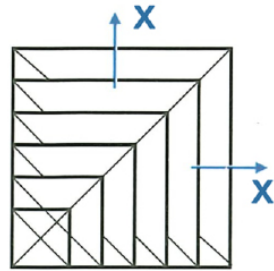
| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-----------------|-----------------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 6" X 9" | Total CFM | 75 | 113 | 150 | 190 | 225 | 263 | 300 | 338 |
| | CFM each side - X | 38 | 57 | 75 | 95 | 113 | 130 | 150 | 169 |
| | Throw each side - X | 3-5 | 4-7 | 5-9 | 6-11 | 7-13 | 8-15 | 9-17 | 10-20 |
| 6" X 12" | Total CFM | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| | CFM each side - X | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | Throw each side - X | 3-5 | 4-8 | 5-10 | 6-12 | 8-15 | 9-18 | 10-20 | 11-22 |
| 6" X 15" | Total CFM | 125 | 188 | 250 | 312 | 375 | 438 | 500 | 563 |
| | CFM each side - X | 63 | 94 | 125 | 156 | 188 | 219 | 250 | 282 |
| | Throw each side - X | 3-5 | 4-7 | 5-9 | 6-12 | 7-14 | 9-17 | 10-19 | 11-22 |
| 6" X 18" | Total CFM | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| | CFM each side - X | 75 | 113 | 150 | 188 | 225 | 263 | 300 | 338 |
| | Throw each side - X | 3-5 | 4-8 | 5-10 | 7-13 | 8-15 | 9-18 | 10-20 | 12-23 |
| 6" X 21" | Total CFM | 175 | 263 | 350 | 438 | 525 | 612 | 700 | 788 |
| | CFM each side - X | 88 | 132 | 175 | 219 | 263 | 306 | 350 | 394 |
| | Throw each side - X | 3-6 | 4-8 | 6-11 | 7-14 | 8-16 | 10-19 | 11-22 | 16-25 |
| 6" X 24" | Total CFM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| | CFM each side - X | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| | Throw each side - X | 3-6 | 5-9 | 6-12 | 8-15 | 9-18 | 10-20 | 12-23 | 13-26 |
| 9" X 12" | Total CFM | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| | CFM each side - X | 75 | 113 | 150 | 188 | 225 | 263 | 300 | 338 |
| | Throw each side - X | 3-5 | 4-8 | 5-10 | 7-13 | 8-15 | 9-18 | 10-20 | 13-23 |
| 9" X 15" | Total CFM | 188 | 282 | 375 | 470 | 563 | 657 | 750 | 844 |
| | CFM each side - X | 94 | 141 | 188 | 235 | 283 | 328 | 375 | 422 |
| | Throw each side - X | 3-6 | 4-8 | 6-11 | 7-13 | 8-16 | 10-19 | 11-21 | 12-25 |
| 9" X 18" | Total CFM | 225 | 338 | 450 | 562 | 675 | 788 | 900 | 1013 |
| | CFM each side - X | 113 | 169 | 225 | 281 | 338 | 394 | 450 | 507 |
| | Throw each side - X | 3-6 | 4-8 | 6-11 | 7-14 | 8-16 | 10-19 | 11-22 | 12-24 |

MODEL : 2-RCD CONT.

| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-----------------|-----------------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 9" X 21" | Total CFM | 262 | 393 | 524 | 656 | 786 | 917 | 1050 | 1179 |
| | CFM each side - X | 131 | 196 | 262 | 328 | 393 | 459 | 524 | 590 |
| | Throw each side - X | 3-6 | 5-6 | 6-12 | 8-15 | 9-18 | 10-20 | 12-23 | 13-26 |
| 9" X 24" | Total CFM | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 | 1350 |
| | CFM each side - X | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| | Throw each side - X | 4-7 | 5-10 | 7-13 | 8-16 | 10-19 | 11-22 | 13-25 | 14-28 |
| 12" X 15" | Total CFM | 250 | 375 | 500 | 625 | 750 | 875 | 1000 | 1125 |
| | CFM each side - X | 125 | 188 | 250 | 313 | 375 | 438 | 500 | 563 |
| | Throw each side - X | 3-6 | 5-9 | 6-12 | 8-15 | 9-18 | 10-20 | 12-23 | 13-26 |
| 12" X 18" | Total CFM | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 | 1350 |
| | CFM each side - X | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| | Throw each side - X | 3-6 | 5-9 | 6-12 | 8-16 | 10-19 | 11-22 | 13-25 | 14-28 |
| 12" X 21" | Total CFM | 350 | 525 | 700 | 875 | 1050 | 1225 | 1400 | 1575 |
| | CFM each side - X | 175 | 263 | 350 | 438 | 525 | 613 | 700 | 788 |
| | Throw each side - X | 4-7 | 5-10 | 7-13 | 8-16 | 10-20 | 12-23 | 13-26 | 15-30 |
| 12" X 24" | Total CFM | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 |
| | CFM each side - X | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| | Throw each side - X | 4-7 | 6-11 | 7-14 | 9-18 | 11-21 | 13-25 | 14-28 | 16-32 |
| 15" X 18" | Total CFM | 375 | 563 | 750 | 938 | 1125 | 1313 | 1500 | 1688 |
| | CFM each side - X | 188 | 282 | 375 | 469 | 563 | 657 | 750 | 844 |
| | Throw each side - X | 3-6 | 5-10 | 7-13 | 8-16 | 10-19 | 12-23 | 13-26 | 15-29 |
| 15" X 21" | Total CFM | 438 | 657 | 876 | 1095 | 1313 | 1533 | 1750 | 1969 |
| | CFM each side - X | 219 | 329 | 438 | 548 | 657 | 767 | 875 | 985 |
| | Throw each side - X | 4-7 | 6-11 | 8-15 | 10-19 | 12-23 | 13-26 | 15-30 | 17-33 |
| 15" X 24" | Total CFM | 500 | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 |
| | CFM each side - X | 250 | 375 | 500 | 625 | 750 | 875 | 1000 | 1125 |
| | Throw each side - X | 4-8 | 6-12 | 8-16 | 10-20 | 12-24 | 14-28 | 16-32 | 18-36 |
| 18" X 21" | Total CFM | 525 | 786 | 1048 | 1310 | 1572 | 1834 | 2096 | 2363 |
| | CFM each side - X | 263 | 393 | 524 | 655 | 786 | 917 | 1048 | 1182 |
| | Throw each side - X | 4-8 | 6-12 | 8-15 | 10-19 | 12-23 | 14-27 | 15-30 | 17-34 |
| 18" X 24" | Total CFM | 600 | 900 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 |
| | CFM each side - X | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 | 1350 |
| | Throw each side - X | 4-8 | 6-12 | 8-16 | 10-20 | 12-24 | 14-28 | 16-32 | 18-36 |

PERFORMANCE DATA 2 WAY SQUARE DIFFUSER

Model 2CSCD



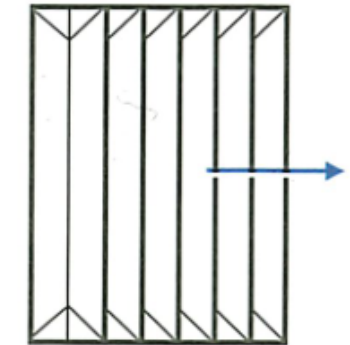
TWO-WAY THROW SQUARE DIFFUSERS

| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 6" X 6" AK = .13 | Total CFM | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | CFM each side - X | 25 | 38 | 50 | 63 | 75 | 88 | 100 | 113 |
| | Throw each side - X | 2-4 | 3-6 | 4-7 | 5-9 | 6-11 | 7-13 | 8-15 | 8-16 |
| 9" X 9" AK = .28 | Total CFM | 112 | 168 | 224 | 280 | 336 | 392 | 448 | 504 |
| | CFM each side - X | 56 | 84 | 112 | 140 | 168 | 196 | 224 | 252 |
| | Throw each side - X | 3-5 | 4-7 | 5-9 | 6-12 | 7-14 | 8-16 | 9-18 | 11-21 |
| 12" X 12" AK = .5 | Total CFM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| | CFM each side - X | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| | Throw each side - X | 3-6 | 4-9 | 6-11 | 7-14 | 9-17 | 10-17 | 11-22 | 13-25 |
| 15" X 15" AK = .79 | Total CFM | 312 | 468 | 624 | 780 | 936 | 1092 | 1248 | 1404 |
| | CFM each side - X | 156 | 234 | 312 | 390 | 468 | 546 | 624 | 702 |
| | Throw each side - X | 4-7 | 5-10 | 7-13 | 8-16 | 11-19 | 11-22 | 13-25 | 14-28 |
| 18" X 18" AK = 1.13 | Total CFM | 450 | 675 | 900 | 1125 | 1350 | 1575 | 1800 | 2025 |
| | CFM each side - X | 225 | 338 | 450 | 563 | 675 | 788 | 900 | 1013 |
| | Throw each side - X | 4-8 | 6-11 | 7-14 | 9-18 | 11-21 | 13-25 | 14-28 | 16-31 |
| 21" X 21" AK = 1.54 | Total CFM | 612 | 918 | 1224 | 1530 | 1836 | 2142 | 2448 | 2754 |
| | CFM each side - X | 306 | 459 | 612 | 765 | 918 | 1071 | 1225 | 1377 |
| | Throw each side - X | 9-9 | 6-12 | 8-16 | 10-20 | 13-25 | 15-29 | 17-33 | 19-37 |
| 24" X 24" AK = 2 | Total CFM | 800 | 1200 | 1600 | 2000 | 2400 | 2800 | 3200 | 3600 |
| | CFM each side - X | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 |
| | Throw each side - X | 5-10 | 7-14 | 10-19 | 12-23 | 14-28 | 17-33 | 19-37 | 21-42 |

- Diffuser selection which will result in noise criteria not exceeding approximately 20 dB based on a room attenuation of 8 dB.
- Resulting Criteria not exceeding 30 dB.
- Resulting Criteria not exceeding approximately 40 dB.
- Resulting Criteria not exceeding 40 dB.

PERFORMANCE DATA 1 WAY SQUARE DIFFUSER

Model 1SCD

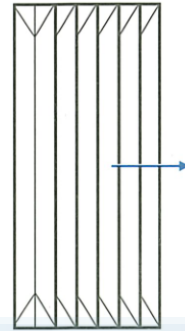


ONE-WAY THROW SQUARE DIFFUSERS

| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 6" X 6" AK = .13 | Total CFM | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 |
| | Throw | 3-5 | 4-7 | 5-10 | 7-13 | 8-15 | 9-18 | 10-20 | 12-23 |
| 9" X 9" AK = .28 | Total CFM | 112 | 168 | 224 | 280 | 336 | 392 | 448 | 504 |
| | Throw | 3-6 | 4-8 | 5-12 | 8-15 | 9-18 | 11-21 | 12-23 | 13-26 |
| 12" X 12" AK = .5 | Total CFM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| | Throw | 4-7 | 6-11 | 7-14 | 9-18 | 10-20 | 12-24 | 14-28 | 16-31 |
| 15" X 15" AK = .79 | Total CFM | 312 | 468 | 624 | 780 | 936 | 1092 | 1248 | 1404 |
| | Throw | 4-7 | 5-10 | 8-15 | 9-18 | 11-22 | 13-26 | 15-29 | 17-33 |
| 18" X 18" AK = 1.13 | Total CFM | 450 | 675 | 900 | 1125 | 1350 | 1575 | 1800 | 2025 |
| | Throw | 5-10 | 7-14 | 10-19 | 12-23 | 14-28 | 17-33 | 19-37 | 21-42 |
| 21" X 21" AK = 1.54 | Total CFM | 612 | 918 | 1224 | 1530 | 1836 | 2142 | 2448 | 2754 |
| | Throw | 6-11 | 9-17 | 11-22 | 14-27 | 17-33 | 19-38 | 21-42 | 24-48 |
| 24" X 24" AK = 2 | Total CFM | 800 | 1200 | 1600 | 2000 | 2400 | 2800 | 3200 | 3600 |
| | Throw | 6-12 | 10-19 | 13-25 | 16-31 | 19-37 | 22-34 | 25-49 | 28-55 |

PERFORMANCE DATA 1 WAY RECTANGULAR DIFFUSER

Model 1RCD



ONE-WAY THROW RECTANGULAR DIFFUSERS

| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-----------------|-----------------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 6" X 9" | Total CFM | 75 | 113 | 150 | 190 | 225 | 263 | 300 | 338 |
| AK = .19 | Throw | 3-6 | 5-9 | 6-12 | 8-15 | 9-17 | 10-20 | 12-23 | 13-26 |
| 6" X 12" | Total CFM | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 |
| AK = .25 | Throw | 4-7 | 5-10 | 7-13 | 8-16 | 10-19 | 11-22 | 13-25 | 15-29 |
| 6" X 15" | Total CFM | 125 | 188 | 250 | 312 | 375 | 438 | 500 | 563 |
| AK = .32 | Throw | 4-7 | 5-10 | 7-13 | 9-17 | 10-20 | 12-23 | 13-26 | 15-30 |
| 6" X 18" | Total CFM | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| AK = .38 | Throw | 4-7 | 5-10 | 7-14 | 9-17 | 10-20 | 12-24 | 14-27 | 15-30 |
| 6" X 21" | Total CFM | 175 | 263 | 350 | 438 | 525 | 612 | 700 | 788 |
| AK = .44 | Throw | 4-8 | 6-11 | 8-15 | 9-18 | 11-22 | 13-25 | 15-29 | 17-33 |
| 6" X 24" | Total CFM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| AK = .5 | Throw | 4-8 | 6-12 | 8-16 | 10-19 | 12-23 | 14-27 | 16-31 | 18-35 |
| 9" X 12" | Total CFM | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 |
| AK = .38 | Throw | 4-7 | 5-10 | 7-14 | 9-17 | 10-20 | 12-24 | 14-27 | 15-30 |
| 9" X 15" | Total CFM | 188 | 282 | 375 | 470 | 563 | 657 | 750 | 844 |
| AK = .47 | Throw | 4-7 | 5-10 | 7-14 | 9-17 | 10-20 | 13-25 | 14-28 | 16-31 |
| 9" X 18" | Total CFM | 225 | 338 | 450 | 562 | 675 | 788 | 900 | 1013 |
| AK = .57 | Throw | 4-8 | 6-11 | 8-15 | 10-19 | 11-22 | 13-25 | 15-29 | 17-33 |

- Diffuser selection which will result in noise criteria not exceeding. Approximately 20 dB based on a room attenuation of 8 dB.
- Resulting Criteria not exceeding 30 dB.
- Resulting Criteria not exceeding approximately 40 dB.
- Resulting Criteria not exceeding 40 dB.

PERFORMANCE DATA 1 WAY RECTANGULAR DIFFUSER

MODEL : 1-RCD CONT.

| NECK SIZE AK | NECK VELOCITY FPM | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-----------------|-----------------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| | Total Pressure | 0.019 | 0.039 | 0.067 | 0.10 | 0.14 | 0.19 | 0.24 | 0.30 |
| 9" X 21" | Total CFM | 262 | 393 | 524 | 656 | 786 | 917 | 1050 | 1179 |
| AK = .66 | Throw | 4-8 | 6-11 | 8-15 | 10-19 | 12-23 | 14-27 | 15-30 | 17-34 |
| 9" X 24" | Total CFM | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 | 1350 |
| AK = .76 | Throw | 4-8 | 6-12 | 8-16 | 10-20 | 12-24 | 14-28 | 16-32 | 18-36 |
| 12" X 15" | Total CFM | 250 | 375 | 500 | 625 | 750 | 875 | 1000 | 1125 |
| AK = .63 | Throw | 4-8 | 6-12 | 8-16 | 10-20 | 12-24 | 14-27 | 16-31 | 18-35 |
| 12" X 18" | Total CFM | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 | 1350 |
| AK = .76 | Throw | 4-8 | 6-12 | 9-17 | 11-21 | 13-25 | 15-30 | 17-34 | 19-38 |
| 12" X 21" | Total CFM | 350 | 525 | 700 | 875 | 1050 | 1225 | 1400 | 1575 |
| AK = .88 | Throw | 4-8 | 7-13 | 9-18 | 11-22 | 14-27 | 16-32 | 19-37 | 21-41 |
| 12" X 24" | Total CFM | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 |
| AK = 1.0 | Throw | 5-9 | 7-14 | 10-19 | 12-23 | 14-28 | 17-33 | 19-38 | 21-42 |
| 15" X 18" | Total CFM | 375 | 563 | 750 | 938 | 1125 | 1313 | 1500 | 1688 |
| AK = .95 | Throw | 5-9 | 7-14 | 9-18 | 12-23 | 14-27 | 16-32 | 18-36 | 21-41 |
| 15" X 21" | Total CFM | 438 | 657 | 876 | 1095 | 1313 | 1533 | 1750 | 1969 |
| AK = 1.1 | Throw | 5-9 | 7-14 | 9-18 | 12-23 | 14-27 | 16-32 | 18-37 | 20-42 |
| 15" X 24" | Total CFM | 500 | 750 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 |
| AK = 1.26 | Throw | 5-10 | 8-15 | 10-19 | 12-24 | 15-29 | 17-34 | 20-39 | 22-44 |
| 18" X 21" | Total CFM | 525 | 786 | 1048 | 1310 | 1572 | 1834 | 2096 | 2363 |
| AK = 1.32 | Throw | 5-10 | 8-15 | 10-20 | 13-25 | 15-30 | 18-35 | 20-40 | 23-45 |
| 18" X 24" | Total CFM | 600 | 900 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 |
| AK = 1.5 | Throw | 6-11 | 8-16 | 11-22 | 14-27 | 16-32 | 19-37 | 22-34 | 24-48 |

- Diffuser selection which will result in noise criteria not exceeding. Approximately 20 dB based on a room attenuation of 8 dB.
- Resulting Criteria not exceeding 30 dB.
- Resulting Criteria not exceeding approximately 40 dB.
- Resulting Criteria not exceeding 40 dB.

TYPES

- CSCD : Circular supply ceiling diffuser .
- CRCD : Circular return ceiling diffuser .

FEATURES

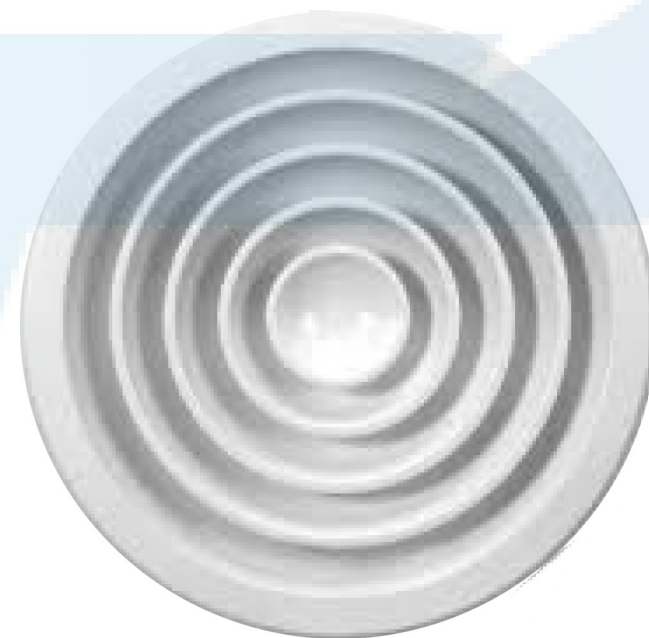
MATERIALS

- Frame and inner cones : aluminium construction.
- Damper frame and blades: galvanized sheets steel.

FINISH

- Standard electrostatic white paint , other colours available on request .

- Circular ceiling diffuser are designed for application in air conditioning , ventilation and forced air heating systems as supply or return diffuser ,are suitable for installation in most commercial and residential applications.
- The diffuser can be used for ceiling or exposed duct mounting and has a fixed horizontal air pattern.
- Circular ceiling diffuser in fact, do ensure acceptable sound level, low pressure drop and high induction rate with ambient air.
- Inner cones fixed rigidly to the frame.
- Available fixed horizontal air pattern diffuser having flush inner cones or fixed horizontal air pattern diffuser with projecting inner cones
- Circular ceiling diffuser are easily and quickly installed , due to its removable core .
- The standard butterfly damper in supply diffuser can be easily adjusted through the face of the unit by means of screw drive.



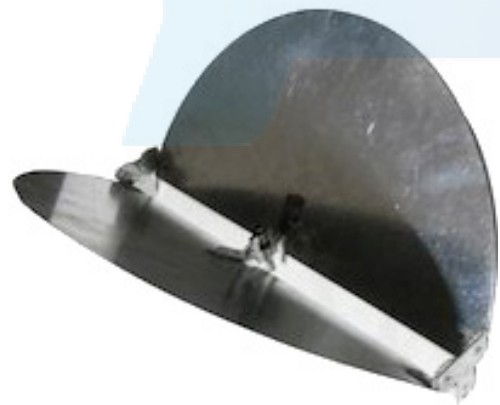
CIRCULAR DAMPER

DIMENSIONAL



1-BUTTERFLY DAMPER

. Galvanized steel material
A butterfly damper that provides simple , easy , economical control of air volume . Friction pivots on heavy-gauge metal blades keep blades at desired setting.

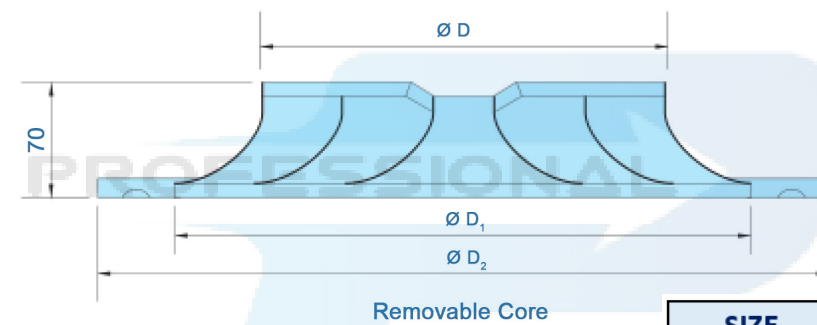


2-RADIAL DAMPER

. Galvanized steel material
Gang operated radial blades side, each blade over the next , at right angles to the airflow.
It is separately mounted in the duct , just above the diffuser. Adjusts with a screw driver from the face side of the diffuser

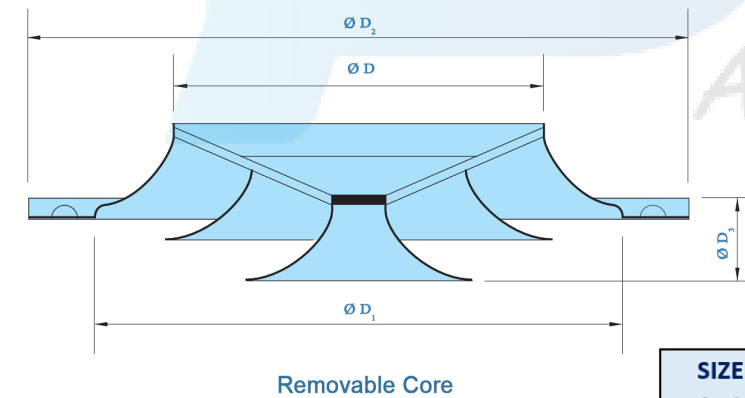


Model (1) Fixed Diffusers Rings



| SIZE (IN) | D (mm) | D ₁ (mm) | D ₂ (mm) |
|-----------|--------|---------------------|---------------------|
| 6 | 146 | 234 | 298 |
| 8 | 197 | 285 | 349 |
| 10 | 248 | 336 | 400 |
| 12 | 299 | 387 | 451 |
| 14 | 349 | 437 | 501 |
| 16 | 400 | 488 | 552 |
| 18 | 451 | 539 | 603 |
| 20 | 502 | 590 | 654 |

Model (2) Fixed Diffusers Core From Rings



| SIZE (IN) | D (mm) | D ₁ (mm) | D ₂ (mm) | D ₃ (mm) |
|-----------|--------|---------------------|---------------------|---------------------|
| 6 | 146 | 234 | 298 | 30 |
| 8 | 197 | 285 | 349 | 45 |
| 10 | 248 | 336 | 400 | 60 |
| 12 | 299 | 387 | 451 | 75 |
| 14 | 349 | 437 | 501 | 90 |
| 16 | 400 | 488 | 552 | 98 |
| 18 | 451 | 539 | 603 | 112 |
| 20 | 502 | 590 | 654 | 126 |

PERFORMANCE DATA

Model (1) Fixed Diffusers Rings

| Neck | Size | Outlets Velocity (FPM) | | | | | | | | |
|------|-------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 |
| (IN) | | Total Pressure (Inches water) | | | | | | | | |
| | | 0.025 | 0.04 | 0.057 | 0.077 | 0.099 | 0.12 | 0.15 | 0.22 | 0.30 |
| 6 | CFM | 80 | 100 | 120 | 135 | 155 | 175 | 195 | 235 | 275 |
| | Throw | 2.4 | 3.5 | 3.5 | 4.6 | 4.6 | 5.7 | 5.7 | 6.8 | 6.8 |
| | NC | < 20 | < 20 | < 20 | < 20 | 23 | 26 | 30 | 35 | 40 |
| 8 | CFM | 140 | 175 | 210 | 245 | 280 | 315 | 350 | 420 | 490 |
| | Throw | 3.5 | 4.6 | 4.7 | 5.7 | 6.8 | 6.8 | 7.9 | 7.10 | 8.11 |
| | NC | < 20 | < 20 | 21 | 26 | 31 | 34 | 37 | 44 | 48 |
| 10 | CFM | 220 | 275 | 325 | 380 | 435 | 490 | 545 | 655 | 765 |
| | Throw | 5.7 | 5.8 | 6.9 | 7.9 | 8.10 | 8.11 | 9.12 | 10.13 | 11.14 |
| | NC | < 20 | < 20 | < 20 | 21 | 26 | 30 | 33 | 39 | 45 |
| 12 | CFM | 315 | 395 | 470 | 550 | 630 | 705 | 785 | 940 | 1100 |
| | Throw | 5.7 | 6.9 | 7.10 | 8.11 | 9.12 | 10.13 | 10.14 | 11.15 | 13.16 |
| | NC | < 20 | < 20 | < 20 | 22 | 26 | 30 | 33 | 39 | 45 |
| 14 | CFM | 430 | 535 | 640 | 750 | 855 | 965 | 1070 | 1285 | 1500 |
| | Throw | 6.8 | 7.10 | 8.11 | 9.12 | 10.13 | 11.15 | 12.16 | 13.17 | 15.19 |
| | NC | < 20 | < 20 | 23 | 28 | 32 | 36 | 40 | 46 | 49 |
| 16 | CFM | 560 | 700 | 840 | 980 | 1120 | 1260 | 1400 | 1680 | 1960 |
| | Throw | 7.10 | 8.12 | 10.13 | 11.15 | 12.16 | 13.17 | 14.18 | 15.20 | 17.21 |
| | NC | < 20 | < 20 | 22 | 27 | 31 | 35 | 39 | 44 | 49 |
| 18 | CFM | 710 | 885 | 1060 | 1240 | 1415 | 1595 | 1770 | 2125 | 2480 |
| | Throw | 7.11 | 9.12 | 10.14 | 12.16 | 13.17 | 14.19 | 16.20 | 18.22 | 19.24 |
| | NC | < 20 | < 20 | 21 | 26 | 30 | 34 | 37 | 43 | 48 |
| 20 | CFM | 870 | 1090 | 1310 | 1525 | 1745 | 1960 | 2180 | 2615 | 3050 |
| | Throw | 8.12 | 10.14 | 12.16 | 14.17 | 15.19 | 16.21 | 17.22 | 19.24 | 21.26 |
| | NC | < 20 | < 20 | 21 | 26 | 30 | 34 | 38 | 43 | 48 |

NOTE :

- . The Maximum Throw Dimension in feet is based on a Terminal Velocity of 50 FPM .
- . The Minimum Throw Dimension in feet is based on a Terminal Velocity of 100 FPM .
- . NC Values are based on a room of 8 dB.

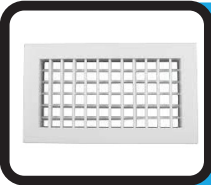
PERFORMANCE DATA

Model (2) Fixed Diffusers Core From Rings

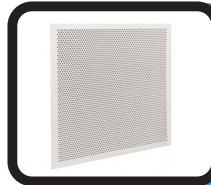
| Neck | Size | Outlets Velocity (FPM) | | | | | | | | |
|------|-------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1400 |
| (IN) | | Total Pressure (Inches water) | | | | | | | | |
| | | 0.021 | 0.033 | 0.047 | 0.064 | 0.084 | 0.106 | 0.131 | 0.189 | 0.257 |
| 6 | CFM | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 235 | 275 |
| | Throw | 2.5 | 3.6 | 3.7 | 4.7 | 5.8 | 5.8 | 6.9 | 7.9 | 7.10 |
| | NC | < 20 | < 20 | 20 | 25 | 29 | 32 | 35 | 41 | 45 |
| 8 | CFM | 140 | 175 | 210 | 245 | 280 | 315 | 350 | 420 | 490 |
| | Throw | 3.6 | 4.7 | 4.9 | 5.10 | 6.10 | 6.12 | 7.11 | 9.12 | 10.13 |
| | NC | < 20 | < 20 | 21 | 26 | 30 | 33 | 36 | 42 | 47 |
| 10 | CFM | 220 | 275 | 325 | 380 | 435 | 490 | 545 | 655 | 765 |
| | Throw | 4.7 | 5.9 | 6.11 | 7.12 | 7.13 | 8.13 | 9.14 | 11.16 | 12.17 |
| | NC | < 20 | < 20 | 22 | 27 | 31 | 34 | 37 | 43 | 47 |
| 12 | CFM | 315 | 390 | 470 | 550 | 630 | 705 | 785 | 940 | 1100 |
| | Throw | 4.9 | 6.11 | 7.13 | 8.14 | 9.15 | 10.16 | 11.17 | 13.19 | 14.20 |
| | NC | < 20 | < 20 | 23 | 27 | 31 | 35 | 38 | 43 | 48 |
| 14 | CFM | 425 | 530 | 635 | 745 | 850 | 955 | 1060 | 1270 | 1490 |
| | Throw | 5.10 | 6.13 | 8.15 | 9.17 | 10.18 | 12.19 | 13.20 | 15.20 | 17.23 |
| | NC | < 20 | < 20 | 23 | 28 | 32 | 35 | 39 | 44 | 49 |
| 16 | CFM | 560 | 700 | 840 | 980 | 1120 | 1260 | 1400 | 1680 | 1960 |
| | Throw | 6.12 | 7.15 | 9.18 | 10.19 | 12.20 | 13.22 | 15.23 | 18.25 | 19.27 |
| | NC | < 20 | < 20 | 24 | 28 | 32 | 36 | 39 | 45 | 49 |
| 18 | CFM | 710 | 885 | 1060 | 1240 | 1415 | 1595 | 1770 | 2125 | 2480 |
| | Throw | 7.13 | 8.17 | 10.20 | 12.21 | 13.23 | 15.24 | 17.26 | 20.28 | 21.30 |
| | NC | < 20 | < 20 | 24 | 29 | 33 | 36 | 40 | 45 | 50 |
| 20 | CFM | 870 | 1100 | 1310 | 1525 | 1750 | 1960 | 2180 | 2615 | 3050 |
| | Throw | 7.15 | 6.19 | 11.22 | 13.24 | 15.25 | 17.27 | 10.28 | 22.31 | 24.34 |
| | NC | < 20 | < 20 | 25 | 29 | 33 | 37 | 40 | 45 | 50 |

NOTE :

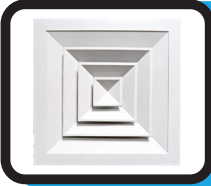
- . The Maximum Throw Dimension in feet is based on a Terminal Velocity of 50 FPM .
- . The Minimum Throw Dimension in feet is based on a Terminal Velocity of 100 FPM .
- . NC Values are based on a room of 8 dB.



GRILLES AND REGISTERS



**PERFORATED CEILING
DIFFUSERS**



**SQUARE & RECTANGULAR
& Circular CEILING
DIFFUSERS**



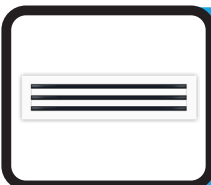
GRAVITY SHUTTERS



**LINEAR BAR
GRILLES®ISTERS**



TRANSFER GRILLES



**Linear Slot
Diffusers**



DISC VALVES



EXTERNAL LOUVERS



SWIRL DIFFUSERS



SAND TRAP LOUVERS



**VOLUME CONTROL
DAMPERS**



JET NOZZLES



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