



AIRCONCEPTS

AIR DISTRIBUTION PRODUCTS



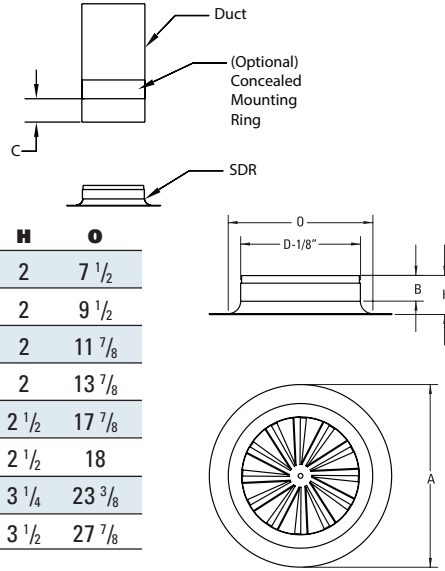
SDR SERIES

SDR

Swirl Diffuser - Round Panel

Swirl Diffuser Dimensions in Inches

| MODEL | A | B | C | D | H | O |
|--------|----|--------|---------|----|-------|--------|
| SDR-06 | 10 | 1 3/16 | 2 1/4 | 6 | 2 | 7 1/2 |
| SDR-08 | 12 | 1 3/16 | 2 1/4 | 8 | 2 | 9 1/2 |
| SDR-10 | 15 | 1 | 2 1/4 | 10 | 2 | 11 7/8 |
| SDR-12 | 17 | 1 | 2 1/4 | 12 | 2 | 13 7/8 |
| SDR-14 | 20 | 1 1/2 | 2 3/4 | 14 | 2 1/2 | 17 7/8 |
| SDR-16 | 22 | 1 3/8 | 2 3/4 | 16 | 2 1/2 | 18 |
| SDR-20 | 28 | 1 1/2 | 3 1/2 | 20 | 3 1/4 | 23 3/8 |
| SDR-24 | 34 | 1 1/2 | 3 13/16 | 24 | 3 1/2 | 27 7/8 |



High Velocity/ High Aspiration Air Outlet

Swirl pattern design
Easy installation

Construction

Heavy gauge aluminum face
Optional Concealed Mounting System

Finishes

Standard: #52 White powder coat
Optional standard: #00 Mill
#12 Anodized powder coat
#42 Gloss black powder coat
#43 Flat black powder coat finish
#62 Grey prime powder coat
#72 Silver metallic powder coat
Custom colors available

| MODEL | Duct Velocity Velocity Pressure | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
|--------|------------------------------------|---------|---------|---------|----------|----------|----------|----------|
| | | 0.010 | 0.016 | 0.022 | 0.031 | 0.040 | 0.051 | 0.062 |
| SDR-06 | CFM | 78 | 98 | 118 | 137 | 157 | 176 | 196 |
| | Static Pressure | 0.11 | 0.17 | 0.24 | 0.33 | 0.43 | 0.54 | 0.66 |
| | NC | 21 | 26 | 30 | 35 | 38 | 41 | 44 |
| | Radius of Diffusion | 1-2-4 | 2-3-6 | 2-4-7 | 3-4-7 | 3-5-10 | 4-6-11 | 4-6-12 |
| SDR-08 | CFM | 140 | 175 | 209 | 244 | 279 | 314 | 349 |
| | Static Pressure | 0.09 | 0.14 | 0.20 | 0.27 | 0.35 | 0.44 | 0.55 |
| | NC | 21 | 26 | 30 | 35 | 38 | 41 | 44 |
| | Radius of Diffusion | 2-3-6 | 3-4-8 | 3-5-10 | 4-6-11 | 4-7-13 | 5-8-15 | 6-8-16 |
| SDR-10 | CFM | 218 | 273 | 327 | 382 | 436 | 491 | 545 |
| | Static Pressure | 0.08 | 0.11 | 0.18 | 0.22 | 0.32 | 0.36 | 0.49 |
| | NC | 22 | 27 | 32 | 36 | 39 | 42 | 45 |
| | Radius of Diffusion | 3-4-8 | 3-5-10 | 4-6-12 | 5-7-14 | 6-9-17 | 6-9-18 | 7-10-20 |
| SDR-12 | CFM | 314 | 393 | 471 | 550 | 628 | 707 | 785 |
| | Static Pressure | 0.08 | 0.11 | 0.18 | 0.22 | 0.32 | 0.36 | 0.49 |
| | NC | 22 | 27 | 32 | 36 | 39 | 42 | 45 |
| | Radius of Diffusion | 3-5-10 | 4-6-12 | 5-8-15 | 6-9-17 | 7-10-20 | 7-11-22 | 8-12-24 |
| SDR-14 | CFM | 428 | 535 | 641 | 748 | 855 | 962 | 1069 |
| | Static Pressure | 0.08 | 0.11 | 0.18 | 0.22 | 0.32 | 0.36 | 0.49 |
| | NC | 22 | 27 | 32 | 36 | 39 | 42 | 45 |
| | Radius of Diffusion | 4-6-12 | 5-7-14 | 6-9-17 | 7-10-20 | 8-12-23 | 9-13-26 | 10-14-28 |
| SDR-16 | CFM | 558 | 698 | 838 | 977 | 1117 | 1256 | 1396 |
| | Static Pressure | 0.08 | 0.11 | 0.18 | 0.22 | 0.32 | 0.36 | 0.49 |
| | NC | 23 | 28 | 33 | 37 | 40 | 43 | 46 |
| | Radius of Diffusion | 4-7-14 | 5-8-16 | 7-10-19 | 8-12-23 | 9-14-26 | 10-16-29 | 11-18-32 |
| SDR-20 | CFM | 872 | 1090 | 1309 | 1527 | 1745 | 1963 | 2181 |
| | Static Pressure | 0.07 | 0.11 | 0.15 | 0.21 | 0.27 | 0.35 | 0.41 |
| | NC | 24 | 30 | 34 | 38 | 42 | 44 | 47 |
| | Radius of Diffusion | 5-9-18 | 6-10-20 | 8-12-24 | 10-15-28 | 11-17-31 | 12-19-35 | 13-21-37 |
| SDR-24 | CFM | 1256 | 1570 | 1885 | 2199 | 2513 | 2827 | 3141 |
| | Static Pressure | 0.05 | 0.08 | 0.12 | 0.16 | 0.20 | 0.25 | 0.31 |
| | NC | 26 | 32 | 37 | 41 | 44 | 47 | 49 |
| | Radius of Diffusion | 6-11-22 | 7-12-24 | 9-14-28 | 11-17-32 | 13-20-36 | 14-22-40 | 15-24-42 |

RADIUS OF DIFFUSION: Horizontal distance (THROW) in feet from the Diffuser at which the maximum velocity has been reduced to specified terminal velocity (Vt).

TERMINAL VELOCITY: Maximum velocity (Vt) in feet per minute at the specified distance from the outlet face (THROW) 150 fpm, 100 fpm and 50 fpm respectively.

AIRFLOW CFM: Standard air density and isothermal conditions.

STATIC PRESSURE: Inches of water gauge required.

NOISE CRITERIA: Noise criteria (NC) curve which is not exceeded with a Room Attenuation of 10db and based on Sound Power Level Re: 10-12 watts.

Performance data based on ASHRAE 70-06