

### Swirl Diffuser - High Performance Series

MODEL	Duct Velocity Velocity Pressure	400 0.010	600 0.022	800 0.040	1000 0.062	1200 0.089	1400 0.122
<b>SDRR-06</b>	CFM	78	118	157	196	235	274
	Static Pressure	0.05	0.11	0.19	0.30	0.42	0.58
	NC	<15	<15	23	23	36	41
	Radius of Diffusion	1-2-4	2-3-6	3-4-8	3-5-10	4-6-12	4-7-14
<b>SDRR-08</b>	CFM	140	210	280	350	420	490
	Static Pressure	0.04	0.08	0.14	0.22	0.32	0.43
	NC	<15	17	27	34	39	44
	Radius of Diffusion	2-3-6	3-5-9	4-6-11	5-7-14	6-8-16	7-10-19
<b>SDRR-10</b>	CFM	218	327	436	545	654	763
	Static Pressure	0.03	0.06	0.10	0.16	0.23	0.31
	NC	<15	21	31	38	44	48
	Radius of Diffusion	3-5-9	4-6-11	5-7-13	6-9-18	7-10-20	8-12-24
<b>SDRR-12</b>	CFM	314	471	628	785	942	1099
	Static Pressure	0.03	0.06	0.10	0.16	0.23	0.31
	NC	<15	21	31	38	44	48
	Radius of Diffusion	3-6-10	5-7-12	7-10-18	8-11-23	9-13-26	10-16-29
<b>SDRR-14</b>	CFM	428	641	855	1069	1283	1497
	Static Pressure	0.03	0.06	0.10	0.16	0.23	0.31
	NC	<15	22	32	39	45	49
	Radius of Diffusion	4-7-12	6-9-16	8-12-23	10-14-28	11-17-32	12-18-34
<b>SDRR-18</b>	CFM	707	1060	1414	1767	2120	2474
	Static Pressure	0.03	0.05	0.09	0.14	0.19	0.27
	NC	<15	22	32	40	46	51
	Radius of Diffusion	5-8-14	7-11-18	9-14-27	12-17-33	15-23-42	17-26-48
<b>SDRR-22</b>	CFM	1056	1583	2111	2639	3167	3695
	Static Pressure	0.02	0.04	0.07	0.12	0.17	0.26
	NC	<15	23	36	42	50	55
	Radius of Diffusion	6-9-16	8-12-20	10-15-29	13-18-35	17-26-47	21-32-59

Performance data based on ASHRAE 70-91

**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.