

## PERFORMANCE DATA:

### MODEL RSDG • BS3 - 3" (76) BLADE SPACING

Nominal Size	Duct Velocity Velocity Pressure	400 0.010	600 0.022	800 0.040	1000 0.062	1200 0.090	1400 0.122	1600 0.160
16	Airflow, CFM	559	838	1117	1396	1676	1955	2234
	Static Pressure	0.011	0.023	0.041	0.065	0.092	0.125	0.163
	Noise Criteria	<15	<15	<15	17	23	29	33
	Throw	10-20-40	15-30-53	22-44-65	28-50-72	34-54-80	40-60-85	45-64-90
18	Airflow, CFM	707	1060	1414	1767	2121	2474	2828
	Static Pressure	0.010	0.023	0.039	0.062	0.089	0.122	0.158
	Noise Criteria	<15	<15	<15	18	24	30	34
	Throw	11-22-44	18-36-61	25-50-72	31-57-80	40-63-89	45-67-95	50-71-101
20	Airflow, CFM	873	1309	1746	2182	2618	3055	3491
	Static Pressure	0.010	0.022	0.038	0.060	0.086	0.117	0.151
	Noise Criteria	<15	<15	<15	18	24	30	34
	Throw	12-24-49	20-40-68	27-53-80	35-63-89	44-68-99	51-74-105	56-78-112
22	Airflow, CFM	1056	1584	2112	2640	3168	3696	4224
	Static Pressure	0.009	0.021	0.037	0.058	0.083	0.114	0.148
	Noise Criteria	<15	<15	<15	19	25	31	35
	Throw	13-27-54	22-44-74	30-57-85	37-68-98	47-76-110	57-85-120	60-87-123
24	Airflow, CFM	1257	1885	2514	3142	3770	4399	5027
	Static Pressure	0.009	0.021	0.036	0.058	0.082	0.111	0.145
	Noise Criteria	<15	<15	<15	20	27	32	36
	Throw	14-29-60	24-48-81	33-66-95	41-75-106	50-84-116	58-88-124	66-95-130
30	Airflow, CFM	1960	2940	3920	4900	5880	6860	7840
	Static Pressure	0.009	0.022	0.037	0.064	0.091	0.0119	0.147
	Noise Criteria	<15	<15	<15	20	26	31	36
	Throw	17-34-69	30-60-102	41-82-123	50-90-129	60-101-141	69-107-150	78-116-157

#### Performance Notes:

- 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 10 dB and based on Sound Power Level, re 10<sup>-12</sup> watts.
- THROW:** Projection distance in feet from outlet at which the maximum velocity has reduced to 200, 100 and 50 fpm respectively.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

Correction Factors for Various Deflection Angles					
Deflection Angle	0°	10°	20°	30°	40°
Total Pressure [times]	1.0	1.2	1.4	1.9	2.4
Throw Projection [times]	1.0	0.9	0.8	0.7	0.6
Noise Criteria - NC [add]	+0	+3	+7	+11	+16