

PERFORMANCE DATA:

MODEL RDDG • BS2 - 2" (51) 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
8	Airflow, CFM	140	209	279	349	419	489	559
	Static Pressure	0.015	0.035	0.062	0.099	0.141	0.193	0.250
	Noise Criteria	<15	<15	<15	20	26	32	37
	Throw	5-10-20	8-16-27	11-21-32	14-25-36	17-28-39	20-30-41	21-32-45
10	Airflow, CFM	218	327	436	545	655	764	873
	Static Pressure	0.013	0.031	0.055	0.086	0.124	0.170	0.221
	Noise Criteria	<15	<15	15	19	25	31	35
	Throw	6-12-24	9-17-32	14-26-37	17-31-45	21-34-47	25-37-52	29-40-56
12	Airflow, CFM	314	471	628	786	943	1100	1257
	Static Pressure	0.013	0.029	0.051	0.081	0.115	0.159	0.206
	Noise Criteria	<15	<15	15	19	25	31	35
	Throw	7-15-30	12-24-40	16-33-47	20-37-53	25-41-59	29-45-65	33-48-74
14	Airflow, CFM	428	641	855	1069	1283	1497	1711
	Static Pressure	0.012	0.028	0.050	0.076	0.114	0.153	0.200
	Noise Criteria	<15	<15	<15	20	26	32	36
	Throw	8-18-37	14-28-47	18-38-55	23-44-61	30-48-70	34-52-74	38-56-83
16	Airflow, CFM	559	838	1117	1396	1676	1955	2234
	Static Pressure	0.013	0.027	0.049	0.078	0.111	0.151	0.197
	Noise Criteria	<15	<15	<15	21	27	33	37
	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	0.012	0.028	0.048	0.076	0.109	0.150	0.194
	Noise Criteria	<15	<15	16	23	29	35	39
	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	0.012	0.027	0.047	0.074	0.106	0.144	0.187
	Noise Criteria	<15	<15	16	23	29	35	39
	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	0.011	0.026	0.045	0.072	0.102	0.140	0.182
	Noise Criteria	<15	<15	17	24	30	36	40
	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	0.011	0.025	0.044	0.071	0.101	0.136	0.179
	Noise Criteria	<15	<15	18	25	32	37	41
	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	0.011	0.027	0.044	0.077	0.110	0.0143	0.176
	Noise Criteria	<15	<15	16	23	28	34	38
	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 10⁻¹² 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 – 2023.

Correction Factors for Various Deflection Angles					
Deflection Angle	0°	10°	20°	30°	40°
Total Pressure [times]	1.0	1.1	1.2	1.7	2.1
Throw Projection [times]	1.0	0.9	0.8	0.7	0.6
Noise Criteria - NC [add]	+0	+2	+5	+8	+12