

PERFORMANCE DATA:

MODEL RANR [WITH RING DIRECTIONAL CORE]

Nominal Size	Duct Velocity [fpm] Velocity Pressure	400 0.010	600 0.022	800 0.040	1000 0.062	1200 0.090	1400 0.122	1600 0.160
3	Airflow, CFM	20	29	39	49	59	69	79
	Total Pressure	0.016	0.036	0.064	0.100	0.144	0.196	0.256
	Noise Criteria	<15	<15	<15	16	21	25	29
	Throw	1-3-7	2-5-10	3-7-12	5-9-13	6-10-14	6-11-16	7-12-17
4	Airflow, CFM	35	52	70	87	105	122	140
	Total Pressure	0.016	0.036	0.064	0.100	0.144	0.196	0.256
	Noise Criteria	<15	<15	16	22	28	32	36
	Throw	2-4-10	3-7-14	4-10-16	6-12-18	7-14-19	9-15-21	10-13-18
5	Airflow, CFM	55	82	109	136	164	191	218
	Total Pressure	0.016	0.036	0.064	0.100	0.144	0.196	0.256
	Noise Criteria	<15	<15	21	28	33	37	41
	Throw	2-5-11	3-6-15	5-10-20	8-13-22	9-15-24	11-18-26	12-16-23
6	Airflow, CFM	79	118	157	196	236	275	314
	Total Pressure	0.016	0.036	0.064	0.100	0.144	0.196	0.256
	Noise Criteria	<15	17	25	32	37	42	46
	Throw	4-8-15	5-11-20	6-15-24	9-18-26	11-20-29	13-22-31	15-24-33
8	Airflow, CFM	140	210	280	350	420	490	560
	Total Pressure	0.017	0.039	0.07	0.109	0.157	0.214	0.28
	Noise Criteria	<15	<15	15	20	25	30	34
	Throw	5-11-23	8-17-28	11-23-32	14-25-36	17-28-39	20-30-42	23-32-45
10	Airflow, CFM	218	327	436	545	654	763	872
	Total Pressure	0.017	0.039	0.07	0.109	0.157	0.214	0.28
	Noise Criteria	<15	<15	17	22	27	32	36
	Throw	7-14-28	11-21-34	14-28-40	18-31-44	21-34-49	25-37-53	28-40-56
12	Airflow, CFM	314	471	628	785	942	1100	1256
	Total Pressure	0.017	0.039	0.07	0.109	0.157	0.215	0.28
	Noise Criteria	<15	<15	19	23	29	33	38
	Throw	8-17-34	13-25-41	17-34-48	21-38-53	25-41-58	30-45-63	38-54-76
14	Airflow, CFM	428	641	855	1069	1283	1497	1710
	Total Pressure	0.017	0.039	0.07	0.109	0.158	0.214	0.28
	Noise Criteria	<15	15	20	25	30	35	39
	Throw	9-20-39	15-30-48	20-39-56	25-44-62	30-48-68	35-52-74	39-56-79
16	Airflow, CFM	558	838	1117	1396	1675	1954	2234
	Total Pressure	0.017	0.039	0.07	0.109	0.158	0.214	0.28
	Noise Criteria	<15	15	20	25	31	36	40
	Throw	11-23-45	17-34-55	23-45-64	28-50-71	34-55-78	39-60-84	45-64-90
18	Airflow, CFM	707	1060	1414	1767	2120	2474	2827
	Total Pressure	0.018	0.039	0.07	0.109	0.158	0.215	0.28
	Noise Criteria	<15	<15	20	27	33	37	41
	Throw	12-25-51	19-38-62	25-51-72	32-57-80	38-62-88	44-67-95	51-72-101
20	Airflow, CFM	872	1309	1745	2181	2617	3053	3490
	Total Pressure	0.018	0.041	0.073	0.114	0.164	0.223	0.292
	Noise Criteria	<15	16	22	28	33	38	43
	Throw	14-28-56	21-43-69	28-56-80	36-63-89	43-69-97	50-74-105	56-80-113
22	Airflow, CFM	1056	1583	2111	2639	3167	3695	4222
	Total Pressure	0.016	0.035	0.063	0.098	0.141	0.192	0.25
	Noise Criteria	<15	15	21	27	33	37	41
	Throw	15-30-60	23-45-76	30-60-88	38-69-98	45-76-107	53-82-116	60-88-124
24	Airflow, CFM	1256	1884	2513	3141	3769	4397	5026
	Total Pressure	0.017	0.038	0.067	0.105	0.151	0.206	0.269
	Noise Criteria	<15	17	23	28	34	39	43
	Throw	16-33-67	25-50-83	34-67-95	42-75-107	50-83-117	59-89-126	67-95-135

ROUND AIR NOZZLES

PERFORMANCE DATA:

MODEL RANR [WITH RING DIRECTIONAL CORE]

Performance Notes:

1. **AIRFLOW CFM:** Standard air density and isothermal conditions.
2. **STATIC PRESSURE:** Inches of water gauge required.
3. **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.
4. **THROW:** Projection distance in feet from outlet at which the maximum velocity has reduced to 200, 100 and 50 fpm respectively.
5. **NOZZLE VELOCITY:** Nozzle Discharge Velocity in feet per minute [fpm].
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.