

AND/ANR/ANF

Concentric Ring Nozzle Diffuser

PERFORMANCE DATA

AND

Size	Duct Velocity (fpm) Velocity Pressure, in. wg.	300 0.006	400 0.010	500 0.016	600 0.022	700 0.031	80 0.040	900 0.050	1000 0.062	1100 0.075	1200 0.090
5	Total Pressure (in. w.g.)	0.016	0.029	0.045	0.065	0.089	0.116	0.147	0.182	0.220	0.262
	Flow Rate (cfm)	41	55	68	82	95	109	123	136	150	164
	Sound (NC)	-	-	-	-	-	-	-	-	17	20
	Throw (ft.)	2-4-8	4-5-10	4-7-11	5-8-2	6-9-13	7-10-13	8-10-14	9-11-15	9-11-16	10-12-16
6	Total Pressure (in. w.g.)	0.017	0.030	0.047	0.068	0.093	0.121	0.153	0.189	0.229	0.273
	Flow Rate (cfm)	59	79	98	118	137	157	177	196	216	236
	Sound (NC)	-	-	-	-	-	-	18	22	26	29
	Throw (ft.)	3-5-10	4-6-11	5-8-13	6-10-14	7-11-15	9-11-16	10-12-17	10-13-18	11-13-19	11-14-20
8	Total Pressure (in. w.g.)	0.018	0.032	0.050	0.073	0.099	0.129	0.163	0.201	0.244	0.290
	Flow Rate (cfm)	105	140	174	209	244	279	314	349	384	419
	Sound (NC)	-	-	-	-	18	23	27	31	35	38
	Throw (ft.)	4-6-13	6-9-15	7-11-17	9-13-19	10-14-20	11-15-21	13-16-23	14-17-24	15-18-25	15-19-26
10	Total Pressure (in. w.g.)	0.019	0.034	0.053	0.076	0.103	0.135	0.171	0.211	0.255	0.304
	Flow Rate (cfm)	164	218	273	327	382	436	491	545	600	654
	Sound (NC)	-	-	-	16	21	26	31	35	38	42
	Throw (ft.)	5-8-16	7-11-19	9-13-21	11-16-23	12-18-25	14-19-27	16-20-29	17-21-30	18-22-32	19-23-33
12	Total Pressure (in. w.g.)	0.020	0.035	0.055	0.079	0.107	0.140	0.177	0.218	0.264	0.315
	Flow Rate (cfm)	236	314	393	471	550	628	707	785	864	942
	Sound (NC)	-	-	-	16	22	27	31	35	39	42
	Throw (ft.)	6-10-19	9-13-23	11-16-26	13-19-28	15-21-30	17-23-32	19-24-34	21-25-36	22-27-38	23-28-39
14	Total Pressure (in. w.g.)	0.020	0.036	0.056	0.081	0.110	0.144	0.182	0.225	0.272	0.324
	Flow Rate (cfm)	321	427	534	641	748	855	962	1068	1175	1282
	Sound (NC)	-	-	-	15	21	26	31	35	38	41
	Throw (ft.)	7-11-22	10-15-27	12-19-30	15-22-33	17-25-35	20-27-38	22-28-40	24-30-42	25-31-44	27-33-46
15	Total Pressure (in. w.g.)	0.020	0.036	0.057	0.082	0.112	0.146	0.184	0.228	0.276	0.328
	Flow Rate (cfm)	368	491	613	736	859	981	1104	1227	1349	1472
	Sound (NC)	-	-	-	-	20	25	30	34	37	41
	Throw (ft.)	7-12-24	11-16-29	13-20-32	16-24-35	19-27-38	21-29-40	24-30-43	26-32-45	27-33-47	29-35-49
16	Total Pressure (in. w.g.)	0.021	0.037	0.058	0.083	0.113	0.147	0.187	0.230	0.279	0.332
	Flow Rate (cfm)	419	558	698	837	977	1116	1256	1396	1535	1675
	Sound (NC)	-	-	-	-	19	24	29	33	36	40
	Throw (ft.)	8-13-26	11-17-30	14-21-34	17-26-37	20-28-40	23-30-43	26-32-46	28-34-48	29-36-50	30-37-53

Performance Notes:

- Performance data is based on extrapolation of existing data. Testing must be done to confirm the above data.
- Air flow is in cubic feet per minute, CFM.
- All pressures are in inches of water.
- Throw values are given in feet to terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum.)
- Throw data is based on supply air and room air at isothermal conditions.
- The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10-12 watts and one diffuser.
- Blanks "-" indicate an NC value less than 15.

Correction Factors

Deflection	0°	15°	30°
NC	-	+2	+4
Throw	-	-	-
Total Pressure	-	x 1.08	x1.12