

AND/ANR/ANF

Concentric Ring Nozzle Diffuser

PERFORMANCE DATA

ANF/ANR

Size	Model	Duct Velocity (fpm) Velocity Pressure (in. w.g.)	400 0.01	600 0.022	800 0.04	1000 0.062	1200 0.090	1400 0.122	1600 0.160
3	ANF	Flow Rate (cfm)	20	29	39	49	59	69	79
		Total Pressure (in. w.g.)	0.012	0.026	0.047	0.074	0.106	0.144	0.188
		Sound (NC)	-	-	-	-	17	21	25
	ANR	Total Pressure (in. w.g.)	0.016	0.036	0.064	0.100	0.144	0.196	0.256
		Sound (NC)	-	-	-	16	21	25	29
		Throw (ft.)	1-3-7	2-5-10	3-7-12	5-9-13	6-10-14	6-11-16	7-12-17
4	ANF	Flow Rate (cfm)	35	52	70	87	105	122	140
		Total Pressure (in. w.g.)	0.012	0.026	0.047	0.076	0.106	0.144	0.188
		Sound (NC)	-	-	-	19	23	27	31
	ANR	Total Pressure (in. w.g.)	0.016	0.036	0.064	0.100	0.144	0.196	0.256
		Sound (NC)	-	-	16	22	28	32	36
		Throw (ft.)	2-4-10	3-7-14	4-10-16	6-12-18	7-14-19	9-15-21	10-13-18
5	ANF	Flow Rate (cfm)	55	82	109	136	164	191	218
		Total Pressure (in. w.g.)	0.012	0.026	0.047	0.074	0.106	0.144	0.188
		Sound (NC)	-	-	16	22	27	31	35
	ANR	Total Pressure (in. w.g.)	0.016	0.036	0.064	0.100	0.144	0.196	0.256
		Sound (NC)	-	-	21	28	33	37	41
		Throw (ft.)	2-5-11	3-6-15	5-10-20	8-13-22	8-15-24	11-18-26	12-16-23
6	ANF	Flow Rate (cfm)	79	118	157	196	236	275	314
		Total Pressure (in. w.g.)	0.012	0.026	0.047	0.074	0.106	0.144	0.188
		Sound (NC)	-	-	20	26	31	35	39
	ANR	Total Pressure (in. w.g.)	0.016	0.036	0.064	0.100	0.144	0.196	0.256
		Sound (NC)	-	17	25	32	37	42	46
		Throw (ft.)	4-8-15	5-11-20	6-15-24	9-18-26	11-20-29	13-22-31	15-24-33
8	ANF	Flow Rate (cfm)	140	210	280	350	420	490	560
		Total Pressure (in. w.g.)	0.012	0.029	0.052	0.08	0.116	0.158	0.207
		Sound (NC)	-	-	-	15	20	25	29
	ANR	Total Pressure (in. w.g.)	0.017	0.039	0.07	0.109	0.157	0.214	0.28
		Sound (NC)	-	-	15	20	25	30	34
		Throw (ft.)	5-11-23	8-17-28	11-23-32	14-25-36	17-28-39	20-30-42	23-32-45
10	ANF	Flow Rate (cfm)	218	327	436	545	654	763	872
		Total Pressure (in. w.g.)	0.012	0.029	0.052	0.08	0.116	0.158	0.207
		Sound (NC)	-	-	-	17	22	27	31
	ANR	Total Pressure (in. w.g.)	0.017	0.039	0.07	0.109	0.157	0.214	0.28
		Sound (NC)	-	-	17	22	27	32	36
		Throw (ft.)	7-14-28	11-21-34	14-28-40	18-31-44	21-34-49	25-37-53	28-40-56
12	ANF	Flow Rate (cfm)	314	471	628	785	942	1100	1256
		Total Pressure (in. w.g.)	0.012	0.029	0.052	0.08	0.116	0.159	0.207
		Sound (NC)	-	-	-	17	23	27	32
	ANR	Total Pressure (in. w.g.)	0.017	0.039	0.07	0.109	0.157	0.215	0.28
		Sound (NC)	-	-	19	23	29	33	38
		Throw (ft.)	8-7-34	13-25-41	17-34-48	21-38-53	25-41-58	30-45-63	38-54-76
14	ANF	Flow Rate (cfm)	428	641	855	1069	1283	1497	1710
		Total Pressure (in. w.g.)	0.012	0.029	0.052	0.08	0.117	0.158	0.207
		Sound (NC)	-	-	-	19	24	29	33
	ANR	Total Pressure (in. w.g.)	0.017	0.039	0.07	0.109	0.158	0.214	0.28
		Sound (NC)	-	15	20	25	30	35	39
		Throw (ft.)	9-20-39	15-30-48	20-39-56	25-44-62	30-48-68	35-52-74	39-56-79
16	ANF	Flow Rate (cfm)	558	838	1117	1396	1675	1954	2234
		Total Pressure (in. w.g.)	0.012	0.029	0.052	0.08	0.117	0.158	0.207
		Sound (NC)	-	-	-	19	25	30	34
	ANR	Total Pressure (in. w.g.)	0.017	0.039	0.07	0.109	0.158	0.214	0.28
		Sound (NC)	-	15	20	25	31	36	40
		Throw (ft.)	11-23-45	17-34-55	23-45-64	28-50-71	34-55-78	39-60-84	45-64-90

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow cfm: Standard air density and isothermal conditions.
- Noise Criteria: Noise criteria [NC] curve which is not exceeded with a Room Attenuation of 10db and based on Sound Power LevelRe: 10-12 watts.
- Static Pressure: in. w.g. required.
- Projection: Projection distance [THROW] in feet from the Nozzle discharge at which the maximum velocity has been reduced to specified terminal velocity [Vt].
- Nozzle Velocity: Nozzle Discharge Velocity in feet per minute [fpm].
- Terminal Velocity: Maximum velocity [Vt] in feet per minute at the specified distance from the outlet face [THROW] 200 fpm, 100 fpm, and 50 fpm respectively.