

HORIZONTAL PATTERN

6" Inlet	2' Long	Airflow, cfm	44	66	88	109	131	153	175
		Total Pressure	0.027	0.060	0.107	0.168	0.241	0.329	0.429
		Static Pressure	0.021	0.047	0.084	0.132	0.190	0.258	0.337
		NC (Noise Criteria)	-	13	20	26	30	34	37
		Throw	2-5-14	5-10-21	9-14-24	12-17-27	14-21-29	16-22-32	18-24-34
	3' Long	Airflow, cfm	66	98	131	164	197	230	263
		Total Pressure	0.040	0.091	0.161	0.251	0.362	0.493	0.644
		Static Pressure	0.027	0.061	0.109	0.171	0.246	0.335	0.437
		NC (Noise Criteria)	-	16	23	29	33	37	40
		Throw	3-6-17	6-13-25	11-17-29	14-21-33	17-25-36	20-27-39	23-29-41
	4' Long	Airflow, cfm	88	131	175	219	263	306	350
		Total Pressure	0.054	0.121	0.215	0.335	0.483	0.657	0.858
		Static Pressure	0.031	0.069	0.123	0.192	0.276	0.376	0.491
		NC (Noise Criteria)	-	19	26	31	36	39	43
		Throw	3-7-20	7-15-29	12-20-34	16-24-38	20-29-41	23-32-45	26-34-48
5' Long	Airflow, cfm	109	164	219	273	328	383	438	
	Total Pressure	0.067	0.151	0.268	0.419	0.604	0.821	1.073	
	Static Pressure	0.031	0.070	0.125	0.195	0.280	0.382	0.499	
	NC (Noise Criteria)	-	21	28	33	37	41	44	
	Throw	3-8-22	8-16-33	14-22-38	18-27-42	22-33-46	25-35-50	29-38-53	
8" Inlet	2' Long	Airflow, cfm	44	66	88	109	131	153	175
		Total Pressure	0.015	0.034	0.060	0.095	0.136	0.185	0.242
		Static Pressure	0.013	0.030	0.053	0.083	0.120	0.163	0.213
		NC (Noise Criteria)	-	-	15	21	25	29	32
		Throw	2-5-14	5-10-21	9-14-24	12-17-27	14-21-29	16-22-32	18-24-34
	3' Long	Airflow, cfm	66	98	131	164	197	230	263
		Total Pressure	0.023	0.051	0.091	0.142	0.204	0.278	0.363
		Static Pressure	0.019	0.042	0.074	0.116	0.167	0.228	0.297
		NC (Noise Criteria)	-	12	19	24	29	32	36
		Throw	3-6-17	6-13-25	11-17-29	14-21-33	17-25-36	20-27-39	23-29-41
	4' Long	Airflow, cfm	88	131	175	219	263	306	350
		Total Pressure	0.030	0.068	0.121	0.189	0.272	0.371	0.484
		Static Pressure	0.023	0.052	0.092	0.143	0.206	0.281	0.367
		NC (Noise Criteria)	-	14	21	26	31	35	38
		Throw	3-7-20	7-15-29	12-20-34	16-24-38	20-29-41	23-32-45	26-34-48
5' Long	Airflow, cfm	109	164	219	273	328	383	438	
	Total Pressure	0.038	0.085	0.151	0.236	0.340	0.463	0.605	
	Static Pressure	0.026	0.059	0.106	0.165	0.238	0.323	0.422	
	NC (Noise Criteria)	-	16	23	28	33	37	40	
	Throw	3-8-22	8-16-33	14-22-38	18-27-42	22-33-46	25-35-50	29-38-53	
10" Inlet	3' Long	Airflow, cfm	66	98	131	164	197	230	263
		Total Pressure	0.017	0.038	0.067	0.105	0.152	0.206	0.270
		Static Pressure	0.015	0.033	0.058	0.091	0.131	0.179	0.233
		NC (Noise Criteria)	-	-	16	22	26	30	33
		Throw	3-6-17	6-13-25	11-17-29	14-21-33	17-25-36	20-27-39	23-29-41
	4' Long	Airflow, cfm	88	131	175	219	263	306	350
		Total Pressure	0.022	0.051	0.090	0.140	0.202	0.275	0.359
		Static Pressure	0.018	0.041	0.074	0.115	0.166	0.226	0.295
		NC (Noise Criteria)	-	12	19	24	28	32	35
		Throw	3-7-20	7-15-29	12-20-34	16-24-38	20-29-41	23-32-45	26-34-48
	5' Long	Airflow, cfm	109	164	219	273	328	383	438
		Total Pressure	0.028	0.063	0.112	0.176	0.253	0.344	0.449
		Static Pressure	0.022	0.049	0.087	0.136	0.196	0.267	0.349
		NC (Noise Criteria)	-	13	20	26	30	34	37
		Throw	3-8-22	8-16-33	14-22-38	18-27-42	22-33-46	25-35-50	29-38-53

- Throw values given are for terminal velocities of 150, 100 and 50 fpm and isothermal conditions
- All pressures given are in inches of wg
- Dash (-) in space denotes an NC value of less than 10
- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006. Actual performance, with flexible duct inlet, may vary in the field. See the section, Engineer Guidelines and the topic 'Other Grille and Diffuser Application Factors' for additional information.
- Each NC value represents the noise criteria curve that will not be exceeded by the sound pressure in any of the octave bands, 2 through 7, with a room absorption of 10 dB, re 10⁻¹² watts.
- See the section, Engineering Guidelines and the topic 'Procedure to Obtain Catalog Throw Data' in this catalog for throw information.

N-1-R RETURN PERFORMANCE DATA

R Models	Airflow, cfm/ft.	30	40	50	60	70	80	90	100
	Static Pressure, inches wg	-0.010	-0.018	-0.028	-0.041	-0.056	-0.073	-0.092	-0.114