

PERFORMANCE DATA:

MODELS RUNI AND ARUNI

Nominal Neck Size	Neck Velocity, FPM	400	500	600	700	800	900	1000	1200	1400	1600
	Velocity Pressure	.010	.016	.022	.031	.040	.050	.062	.090	.122	.160
6" Dia.	Total Pressure, Horizontal	0.017	0.026	0.038	0.051	0.067	0.085	0.105	0.151	0.206	0.269
	Total Pressure, Vertical	0.034	0.053	0.076	0.104	0.135	0.171	0.211	0.304	0.414	0.541
	Airflow, CFM	80	100	120	140	160	180	200	235	275	315
	Noise Criteria, Horizontal	—	—	—	—	—	16	18	26	31	34
	Noise Criteria, Vertical	—	—	—	—	—	19	22	29	34	37
	Throw, Horizontal	2-3-6	2-3-7	3-4-9	3-5-10	4-6-11	4-6-12	5-7-12	5-8-13	6-10-14	7-11-15
	Throw, Vertical	8-12-23	10-15-25	12-18-26	14-21-27	16-23-28	18-24-29	20-25-30	23-26-31	24-27-32	25-28-33
8" Dia.	Total Pressure, Horizontal	0.017	0.026	0.038	0.051	0.067	0.085	0.105	0.151	0.206	0.269
	Total Pressure, Vertical	0.038	0.059	0.085	0.116	0.151	0.191	0.236	0.340	0.463	0.605
	Airflow, CFM	140	175	209	244	279	314	349	419	489	558
	Noise Criteria, Horizontal	—	—	—	—	—	16	20	28	32	35
	Noise Criteria, Vertical	—	—	—	—	15	21	28	31	36	42
	Throw, Horizontal	3-5-11	4-6-13	5-7-14	5-8-16	6-9-17	7-10-18	8-12-19	9-14-22	11-16-24	12-18-26
	Throw, Vertical	15-22-31	18-24-34	20-27-37	22-29-40	24-31-43	26-32-46	28-34-48	31-37-53	34-40-57	38-43-61
10" Dia.	Total Pressure, Horizontal	0.017	0.027	0.039	0.053	0.070	0.088	0.109	0.157	0.214	0.279
	Total Pressure, Vertical	0.033	0.051	0.073	0.100	0.131	0.165	0.204	0.294	0.400	0.522
	Airflow, CFM	218	273	327	382	436	491	545	654	764	873
	Noise Criteria, Horizontal	—	—	—	—	—	16	21	28	32	35
	Noise Criteria, Vertical	—	—	—	—	19	23	28	32	38	43
	Throw, Horizontal	3-5-11	4-6-13	5-7-14	5-8-16	6-9-17	7-10-18	8-12-20	9-14-22	11-16-24	12-19-27
	Throw, Vertical	15-22-31	18-25-35	20-27-38	22-29-41	24-31-44	26-33-47	28-35-49	32-38-54	36-41-58	39-44-62
12" Dia.	Total Pressure, Horizontal	0.019	0.030	0.044	0.059	0.078	0.098	0.121	0.175	0.238	0.311
	Total Pressure, Vertical	0.042	0.065	0.094	0.128	0.167	0.211	0.261	0.375	0.511	0.667
	Airflow, CFM	314	393	471	550	628	707	785	942	1100	1257
	Noise Criteria, Horizontal	—	—	—	—	15	18	21	29	34	39
	Noise Criteria, Vertical	—	—	—	—	18	24	29	29	40	45
	Throw, Horizontal	4-6-14	5-7-16	6-9-17	7-10-19	8-12-20	9-13-21	10-15-22	12-17-24	14-20-26	16-23-28
	Throw, Vertical	23-28-39	25-31-43	28-34-47	30-36-51	32-39-55	34-41-58	36-43-61	39-47-67	42-51-72	45-55-77
14" Dia.	Total Pressure, Horizontal	0.021	0.033	0.047	0.064	0.084	0.106	0.131	0.189	0.257	0.336
	Total Pressure, Vertical	0.042	0.066	0.095	0.129	0.168	0.213	0.263	0.378	0.515	0.673
	Airflow, CFM	428	535	641	748	855	962	1069	1283	1497	1710
	Noise Criteria, Horizontal	—	—	—	—	—	19	22	31	35	41
	Noise Criteria, Vertical	—	—	—	19	21	28	31	39	44	49
	Throw, Horizontal	4-7-16	5-8-19	7-10-20	8-11-22	9-13-24	10-15-26	11-16-27	13-20-30	15-23-33	17-26-35
	Throw, Vertical	24-29-41	26-32-45	29-35-50	31-38-54	33-41-57	35-43-61	37-45-64	41-50-70	44-54-75	47-57-81
16" Dia.	Total Pressure, Horizontal	0.021	0.033	0.048	0.065	0.085	0.107	0.132	0.191	0.259	0.339
	Total Pressure, Vertical	0.045	0.071	0.102	0.139	0.181	0.229	0.283	0.408	0.555	0.725
	Airflow, CFM	559	698	838	977	1117	1257	1396	1676	1955	2234
	Noise Criteria, Horizontal	—	—	—	—	18	22	25	33	37	41
	Noise Criteria, Vertical	—	—	19	21	24	30	33	40	45	50
	Throw, Horizontal	5-7-16	6-9-19	7-11-22	8-12-25	9-14-27	11-16-30	12-18-32	14-21-36	17-25-41	19-28-45
	Throw, Vertical	25-31-43	28-34-48	31-38-53	33-40-57	35-43-61	38-46-64	40-48-68	43-53-74	47-57-80	50-61-86

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CEILING DIFFUSERS

Performance Notes:

- All pressures are in inches w.g.. To obtain static pressure, subtract the velocity pressure from the total pressure.
- Horizontal throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions for a ceiling mounted diffuser (inner plaque in fully down position A). For exposed duct mounting, multiply the throw values by 0.70.
- Vertical throws are given at 150, 100 and 50 fpm under isothermal conditions (inner plaque in fully up position B). For non-isothermal conditions, use the following

correction factors:

ΔT Temperature Differential	Correction Factor
20°F Cooling Isothermal	x 1.40
10°F Heating	x 1.00
20°F Heating	x 0.83
30°F Heating	x 0.58
40°F Heating	x 0.53
	x 0.43

4. Noise Criteria (NC) values are based upon 10 dB room absorption, re 10⁻¹² watts. Dash (—) in space indicates an Noise Criteria of less than 15.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

Neck Size Dia. in Inches	Ak Factor
	Position A (Cone Down)
6	0.12
8	0.21
10	0.33
12	0.51
14	0.70
16	0.88