

PERFORMANCE DATA:

MODELS RUNI AND ARUNI • IMPERIAL UNITS

Nominal Neck Size	Neck Velocity, FPM Velocity Pressure	400	500	600	700	800	900	1000	1200	1400	1600
		.010	.016	.022	.031	.040	.050	.062	.090	.122	.160
6" Dia.	Total Pressure Horizontal	.025	.039	.056	.077	.101	.128	.158	.220	.303	.399
	Vertical	.038	.060	.087	.121	.159	.204	.254	.355	.493	.655
	Airflow, CFM	80	100	120	140	160	180	200	235	275	315
	NC Horizontal	—	—	—	—	15	19	21	29	34	37
	Vertical	—	—	—	—	17	22	25	32	37	40
	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
	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	.021	.033	.047	.064	.083	.105	.129	.185	.250	.325
	Vertical	.046	.072	.103	.141	.184	.232	.287	.412	.561	.732
	Airflow, CFM	140	175	209	244	279	314	349	419	489	558
	NC Horizontal	—	—	—	—	15	19	23	31	35	38
	Vertical	—	—	—	—	18	24	31	34	39	45
	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
	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	.022	.034	.048	.066	.085	.108	.133	.191	.259	.338
	Vertical	.043	.067	.096	.131	.171	.217	.267	.384	.523	.682
	Airflow, CFM	218	273	327	382	436	491	545	654	764	873
	NC Horizontal	—	—	—	—	—	19	24	31	35	38
	Vertical	—	—	—	15	22	26	31	35	41	46
	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
	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	.025	.038	.055	.074	.096	.121	.149	.214	.289	.376
	Vertical	.051	.080	.115	.156	.203	.257	.317	.456	.619	.808
	Airflow, CFM	314	393	471	550	628	707	785	942	1100	1257
	NC Horizontal	—	—	—	—	15	18	21	29	34	39
	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
	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	.027	.041	.059	.080	.104	.131	.161	.230	.312	.406
	Vertical	.052	.081	.117	.158	.206	.261	.321	.461	.625	.814
	Airflow, CFM	428	535	641	748	855	962	1069	1283	1497	1710
	NC Horizontal	—	—	—	—	—	19	22	31	35	41
	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
	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	.030	.045	.064	.086	.110	.138	.168	.238	.318	.410
	Vertical	.056	.087	.125	.170	.222	.280	.345	.496	.673	.877
	Airflow, CFM	559	698	838	977	1117	1257	1396	1676	1955	2234
	NC Horizontal	—	—	—	—	18	22	25	33	37	41
	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
	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

CFM - cubic feet per minute

FPM - feet per minute velocity

T - throw in feet

NC - Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts.

Performance Notes:

1. 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.

2. 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	x 1.40
Isothermal	x 1.00
10°F Heating	x 0.83
20°F Heating	x 0.58
30°F Heating	x 0.53
40°F Heating	x 0.43

3. All pressures are in inches w.g.. To obtain static pressure, subtract the velocity pressure from the total pressure.
 4. NC (Noise Criteria) values are based upon 10 dB room absorption, re 10⁻¹²

watts. Dash (-) in space indicates an NC 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