



# ENGINEERING DATA

## PM, APM Series

Neck Size (in.)	Nominal Duct Area	Neck Velocity (fpm)	75	100	125	150	175	200	225	250	275
		Velocity Pressure	0.014	0.025	0.040	0.057	0.078	0.102	0.129	0.159	0.192
6x6	0.25	Airflow (CFM)	75	100	125	150	175	200	225	250	275
		Total Pressure	0.014	0.025	0.040	0.057	0.078	0.102	0.129	0.159	0.192
		1-way - Horizontal Throw	1-1-3	1-2-4	2-2-5	2-3-5	2-3-6	2-4-7	3-4-8	3-5-9	3-5-9
		2-way - Horizontal Throw	1-2-5	2-3-6	3-4-8	3-5-9	4-5-11	4-6-12	5-7-13	5-8-13	6-9-14
		3-way - Horizontal Throw	1-3-6	2-4-8	3-5-10	4-6-12	5-7-13	5-8-14	6-9-15	7-10-16	7-11-17
		4-way - Horizontal Throw	3-5-9	4-6-12	5-8-15	6-9-18	7-12-21	8-12-22	9-14-23	10-15-25	11-17-26
		Noise Criteria	-	-	-	17	22	27	30	34	37
8x8	0.44	Airflow (CFM)	133	178	222	267	311	356	400	444	489
		Total Pressure	0.018	0.033	0.051	0.073	0.100	0.130	0.165	0.203	0.246
		1-way - Horizontal Throw	1-2-4	2-2-5	2-3-6	2-4-7	3-4-8	3-5-10	4-5-11	4-6-12	4-7-13
		2-way - Horizontal Throw	2-3-6	3-4-8	3-5-10	4-6-12	5-7-14	6-8-16	6-9-17	7-10-18	8-11-19
		3-way - Horizontal Throw	2-4-8	3-5-11	4-7-13	5-8-16	6-9-18	7-11-19	8-12-20	9-13-21	10-15-22
		4-way - Horizontal Throw	4-6-12	5-8-16	7-10-20	8-12-24	9-14-27	11-16-29	12-18-31	13-20-33	15-22-34
		Noise Criteria	-	-	17	22	27	32	35	39	42
10x10	0.69	Airflow (CFM)	208	278	347	417	486	556	625	694	764
		Total Pressure	0.023	0.042	0.065	0.094	0.128	0.167	0.211	0.261	0.315
		1-way - Horizontal Throw	1-2-5	2-3-6	3-4-8	3-5-9	4-5-11	4-6-12	5-7-14	5-8-15	6-8-16
		2-way - Horizontal Throw	2-4-8	3-5-10	4-6-13	5-8-16	6-9-18	7-10-20	8-12-21	9-13-22	9-14-23
		3-way - Horizontal Throw	2-5-10	4-7-13	6-8-17	7-10-20	8-12-22	9-13-24	10-15-25	11-17-27	12-18-28
		4-way - Horizontal Throw	5-8-15	7-10-20	8-13-25	10-15-30	12-18-34	13-20-37	15-23-39	17-25-41	18-28-43
		Noise Criteria	-	-	21	26	31	36	39	43	46
12x12	1.00	Airflow (CFM)	300	400	500	600	700	800	900	1000	1100
		Total Pressure	0.030	0.053	0.083	0.119	0.162	0.211	0.268	0.330	0.400
		1-way - Horizontal Throw	2-3-5	2-4-7	3-5-9	4-5-11	4-6-13	5-7-14	5-8-16	6-9-18	7-10-19
		2-way - Horizontal Throw	2-5-9	4-6-12	5-8-16	6-9-19	7-11-22	8-12-24	9-14-25	10-16-27	11-17-28
		3-way - Horizontal Throw	3-6-12	5-8-16	7-10-20	8-12-24	9-14-27	11-16-29	12-18-30	13-20-32	15-22-34
		4-way - Horizontal Throw	6-9-18	8-12-24	10-15-30	12-18-36	14-21-41	16-24-44	18-27-47	20-30-49	22-33-52
		Noise Criteria	-	17	24	30	35	39	43	46	49
18x18	1.78	Airflow (CFM)	675	900	1125	1350	1575	1800	2025	2250	2475
		Total Pressure	0.055	0.099	0.154	0.222	0.302	0.394	0.499	0.616	0.746
		1-way - Horizontal Throw	2-4-8	4-5-11	5-7-14	5-8-16	6-9-19	7-11-22	8-12-24	9-14-27	10-15-28
		2-way - Horizontal Throw	4-7-14	6-9-19	8-12-23	9-14-28	11-16-33	12-19-36	14-21-38	16-23-40	17-26-42
		3-way - Horizontal Throw	4-9-18	7-12-24	10-15-30	12-18-36	14-21-40	16-24-43	18-27-46	20-30-48	22-33-50
		4-way - Horizontal Throw	9-14-27	12-18-36	15-23-45	18-27-54	21-32-62	24-36-66	27-41-70	30-45-74	33-50-77
		Noise Criteria	15	24	31	37	42	46	50	53	56

**Notes:**

1. Tests conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
2. Tests conducted with a straight rigid inlet condition. Other inlet conditions may alter performance.
3. Unit of measure: Total Pressure = in. wc; Throw = ft. at 150 fpm, 100 fpm and 50 fpm terminal velocity.
4. NC is based upon 10 dB room absorption (Re: 10<sup>-12</sup> watts) evaluated at 125 through 4000 Hz octave bands.
5. Dash "-" indicates NC value less than 15.
6. Flow hoods are recommended for system balancing.