Precision Air Products LAMI-VENT™ Supply Diffuser
Product Performance Data for
Model PAT-A (20-40 CFM/ft²)

Table 1: Air Flow Performance Data

AVERAGE VELOCITIES BELOW MODULES @ 10°F D.T.D.[1]						
FACE VELOCITY (CFM/FT²)[2]	DISTANCE BELOW FACE (FT)					
	1	2	3	4	5	6
20	54	55	55	54	49	42
25	62	66	69	67	58	48
30	71	73	73	71	62	50
35	78	79	80	78	71	60
40	88	89	88	86	80	73

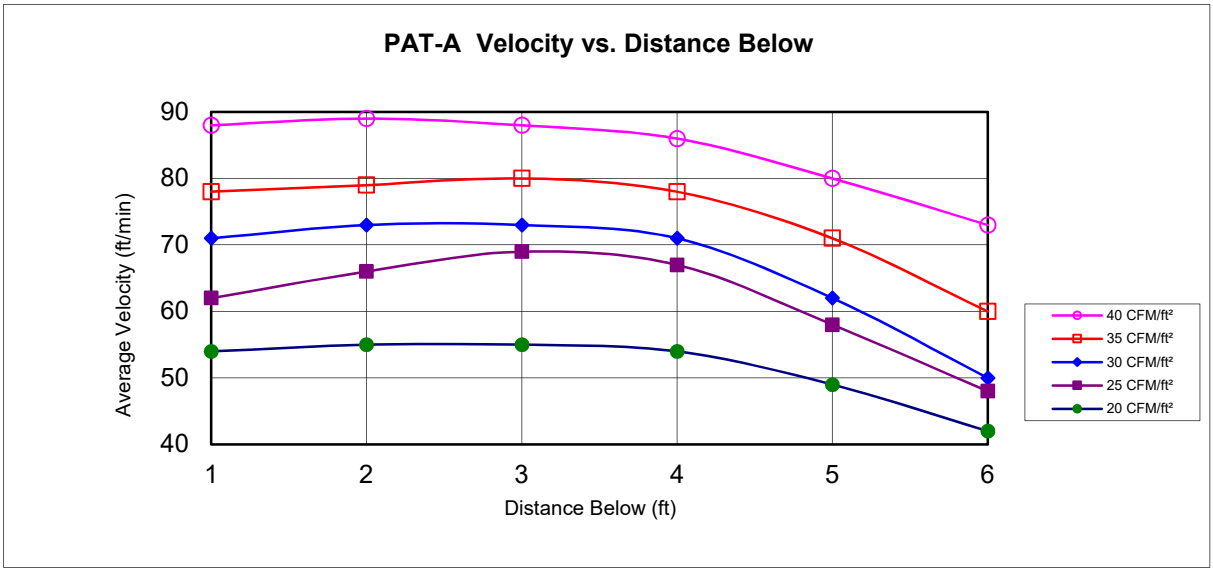

Table 2: Static Pressure & Noise Measurement

STATIC PRESSURE AND SOUND LEVEL		
CFM/FT²	DUCT APPLICATION	
	STATIC PRESSURE[3,4]	N.C. LEVEL [4,5]
20	0.04	<15
25	0.06	20
30	0.09	25
35	0.12	32
40	0.16	36

1 = D.T.D. (Design Temperature Differential) is the difference between primary entering air temperature and designed room temperature.
2 = Data reflects performance for standard 24"x 48" module with 9 3/4" dia. top inlet with volume adjustment valve in full open position.
3 = Static pressure measured in inches of water.
4 = The diffuser testing was performed in accordance with the ASHRAE 70-2006 Standard “Method of Testing for Rating Performance of Air Inlets and Outlets".
5 = N.C. Level reflects a 10 dB room attenuation (industry standard attenuation factor).

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Precision Air Products LAMI-VENT™ Supply Diffuser
Product Performance Data for
Model PAT-B (45-65 CFM/ft²)

Table 1: Air Flow Performance Data

AVERAGE VELOCITIES BELOW MODULES @ 5°F D.T.D.[1]						
FACE VELOCITY (CFM/ft²)[2]	DISTANCE BELOW FACE (FT)					
	1	2	3	4	5	6
45	73	73	62	59	57	48
50	79	79	70	69	68	60
55	84	84	78	79	78	71
60	93	94	90	89	86	80
65	101	103	101	99	94	88

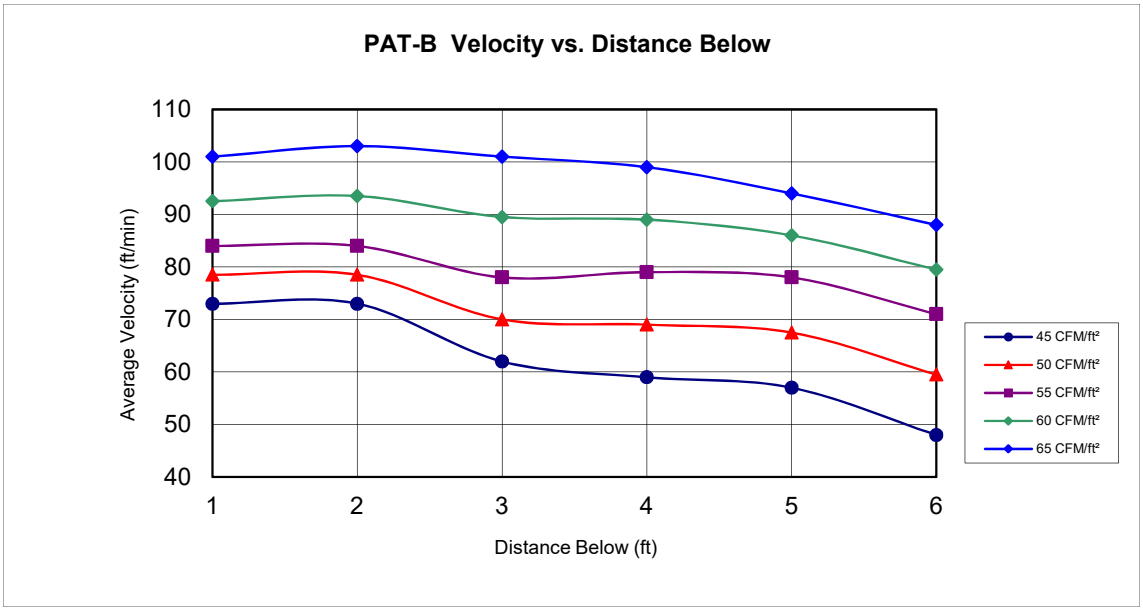

Table 2: Static Pressure & Noise Measurement

STATIC PRESSURE AND SOUND LEVEL		
CFM/ft²	DUCT APPLICATION	
	STATIC PRESSURE[3,4]	N.C. LEVEL [4,5]
45	0.15	37
50	0.19	41
55	0.22	44
60	0.26	47
65	0.29	48

1 = D.T.D. (Design Temperature Differential) is the difference between primary entering air temperature and designed room temperature.
2 = Data reflects performance for standard 24"x 48" module with 9 3/4" dia. top inlet with volume adjustment valve in full open position.
3 = Static pressure measured in inches of water.
4 = The diffuser testing was performed in accordance with the ASHRAE 70-2006 Standard “Method of Testing for Rating Performance of Air Inlets and Outlets".
5 = N.C. Level reflects a 10 dB room attenuation (industry standard attenuation factor).

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Precision Air Products LAMI-VENT™ Supply Diffuser
Product Performance Data for
Model PAT-C (70-130 CFM/ft²)

Table 1: Air Flow Performance Data

AVERAGE VELOCITIES BELOW MODULES @ 5°F D.T.D.[1]						
FACE VELOCITY (CFM/ft²)[2]	DISTANCE BELOW FACE (FT)					
	1	2	3	4	5	6
70	106	109	107	96	93	75
80	118	125	121	106	97	85
90	135	138	132	123	114	108
100	151	156	155	146	129	118
110	171	169	168	160	141	126
120	181	181	179	170	160	150
130	189	194	193	183	171	158

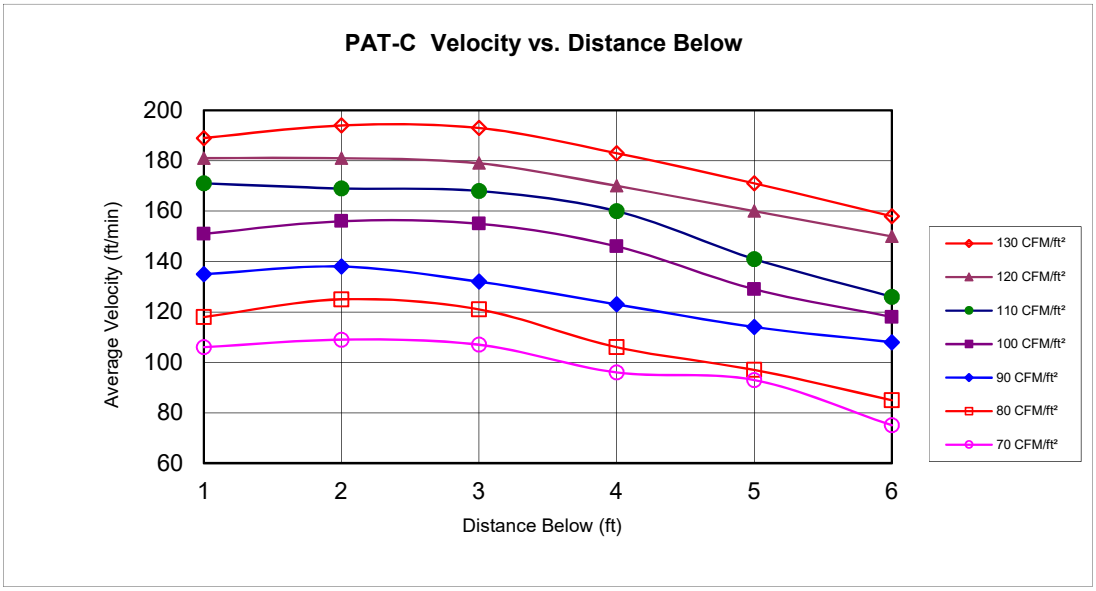

Table 2: Static Pressure & Noise Measurement

STATIC PRESSURE AND SOUND LEVEL		
CFM/ft²	DUCT APPLICATION	
	STATIC PRESSURE[3]	N.C. LEVEL [4,5]
70	0.14	40
80	0.19	44
90	0.23	48
100	0.29	50
110	0.34	52
120	0.41	55
130	0.48	57

1 = D.T.D. (Design Temperature Differential) is the difference between primary entering air temperature and designed room temperature.
2 = Data reflects performance for standard 24"x 48" module with 13 3/4" dia. top inlet with volume adjustment valve in full open position.
3 = Static pressure measured in inches of water.
4 = The sound generation testing was performed in accordance with ANSI Standard S12.31-1990 “Precision Methods for the Determination of Sound Power Levels of Broad-Band Noise Sources in Reverberation Rooms.”
5 = N.C. Level reflects a 10 dB room attenuation (industry standard attenuation factor).

Precision Air Products LAMI-VENT™ Supply Diffuser
Product Performance Data for
Model PAT-D (125-145 CFM/ft²)

Table 1: Air Flow Performance Data

AVERAGE VELOCITIES BELOW MODULES @ 5°F D.T.D.[1]						
FACE VELOCITY (CFM/ft²)[2]	DISTANCE BELOW FACE (FT)					
	1	2	3	4	5	6
125	159	161	161	154	146	139
130	178	180	181	176	169	160
135	196	199	200	197	192	181
140	201	205	206	203	197	186
145	206	210	211	208	202	191

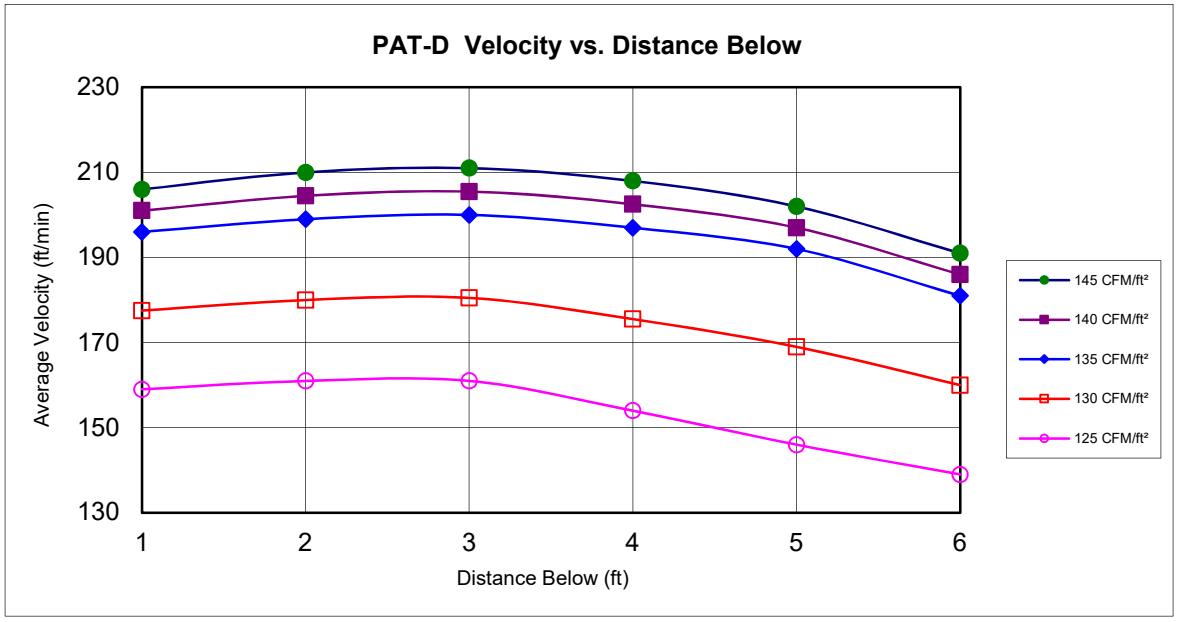

Table 2: Static Pressure & Noise Measurement

STATIC PRESSURE AND SOUND LEVEL		
CFM/ft²	DUCT APPLICATION	
	STATIC PRESSURE[3]	N.C. LEVEL [4,5]
125	0.70	56
130	0.75	56
135	0.80	57
140	0.85	57
145	0.90	58

1 = D.T.D. (Design Temperature Differential) is the difference between primary entering air temperature and designed room temperature.
2 = Data reflects performance for standard 24"x 48" module with 13 3/4" square top inlet volume adjustment plate valve in full open position.
3 = Static pressure measured in inches of water.
4 = The sound generation testing was performed in accordance with ANSI Standard S12.31-1990 “Precision Methods for the Determination of Sound Power Levels of Broad-Band Noise Sources in Reverberation Rooms.”
5 = N.C. Level reflects a 10 dB room attenuation (industry standard attenuation factor).

Precision Air Products LAMI-VENT™ Supply Diffuser Product Performance Data for Model PAT-E (150-215 CFM/ft²)

Table 1: Air Flow Performance Data

AVERAGE VELOCITIES BELOW MODULES @ 5°F D.T.D.[1]						
FACE VELOCITY (CFM/ft²)[2]	DISTANCE BELOW FACE (FT)					
	1	2	3	4	5	6
150	176	186	186	180	170	157
170	196	212	211	198	182	170
190	214	227	230	222	203	187
210	230	241	242	236	215	201
215	245	258	256	250	233	221

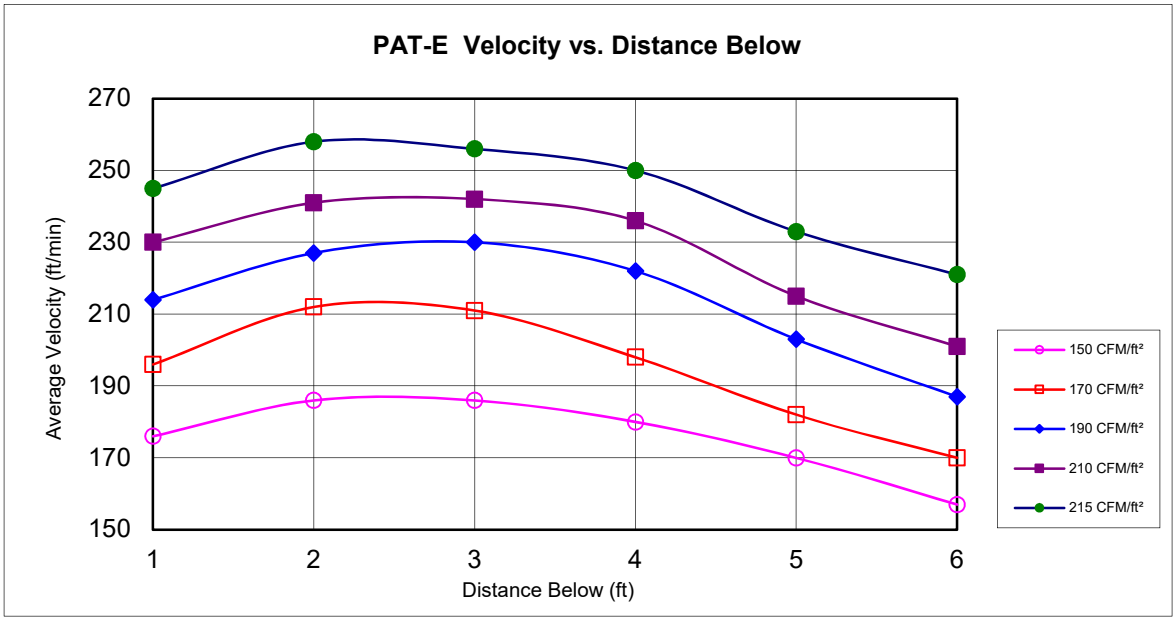

Table 2: Static Pressure & Noise Measurement

STATIC PRESSURE AND SOUND LEVEL		
CFM/ft²	DUCT APPLICATION	
	STATIC PRESSURE[3]	N.C. LEVEL [4,5]
150	0.44	53
170	0.60	55
190	0.75	57
210	0.94	59
215	0.99	61

1 = D.T.D. (Design Temperature Differential) is the difference between primary entering air temperature and designed room temperature.
2 = Data reflects performance for standard 24"x 48" module with 17 3/4" square top inlet volume adjustment plate valve in full open position.
3 = Static pressure measured in inches of water.
4 = The sound generation testing was performed in accordance with ANSI Standard S12.31-1990 “Precision Methods for the Determination of Sound Power Levels of Broad-Band Noise Sources in Reverberation Rooms.”
5 = N.C. Level reflects a 10 dB room attenuation (industry standard attenuation factor).