

Precision Air Products HEPA-VENT DS Supply Diffuser

Product Performance Data for Model HEP-DS-A (20-40 CFM/ft²)

Table 1: Air Flow Performance Data

AVERAGE VELOCITIES BELOW MODULES @ 10°F D.T.D. ¹						
FACE VELOCITY (CFM/FT ²) ²	DISTANCE BELOW FACE (FT)					
	1	2	3	4	5	6
20	53	57	61	65	68	69
25	58	62	67	70	72	72
30	63	71	75	77	78	77
35	67	76	80	83	84	83
40	73	84	88	89	91	90

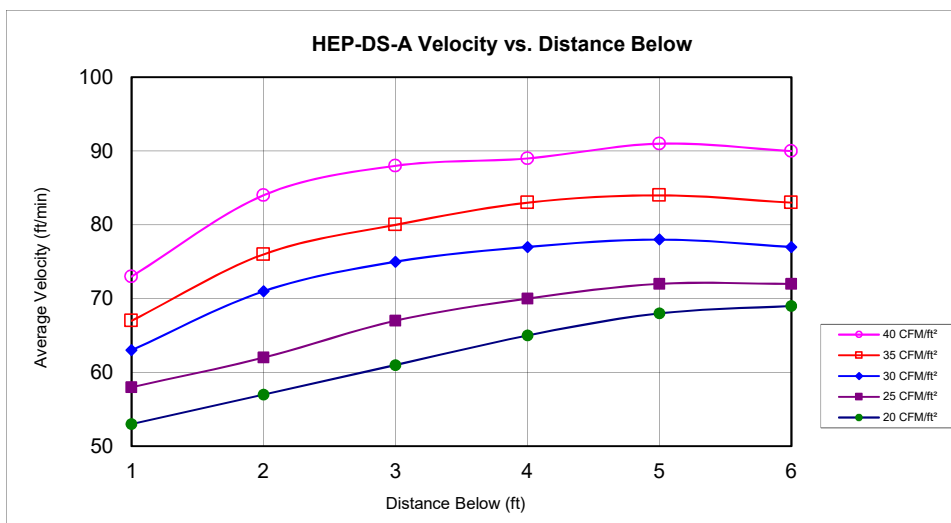


Table 2: Static Pressure & Noise Measurement

CFM/FT ²	STATIC PRESSURE AND SOUND LEVEL	
	DUCT APPLICATION	
	STATIC PRESSURE ^{3,6}	N.C. LEVEL ^{4,5,7}
20	0.20 (0.19)	23 (20)
25	0.27 (0.25)	23 (20)
30	0.33 (0.31)	24 (22)
35	0.40 (0.38)	28 (26)
40	0.47 (0.44)	32 (30)

- 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 7 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).
- 6 = Static pressure in parentheses are extrapolated data for 24"x48" size unit with 9 3/4" dia. inlet.
- 7 = NC levels in parentheses are extrapolated data for 24"x48" size unit with 9 3/4" dia. inlet.



Precision Air Products HEPA-VENT DS Supply Diffuser

Product Performance Data for Model HEP-DS-B (45-65 CFM/ft²)

Table 1: Air Flow Performance Data

AVERAGE VELOCITIES BELOW MODULES @ 10°F D.T.D. ¹						
FACE VELOCITY (CFM/FT ²) ²	DISTANCE BELOW FACE (FT)					
	1	2	3	4	5	6
45	56	66	77	84	88	83
50	59	70	81	87	91	85
55	63	73	83	91	93	88
60	69	79	89	96	98	95
65	76	88	96	103	106	105

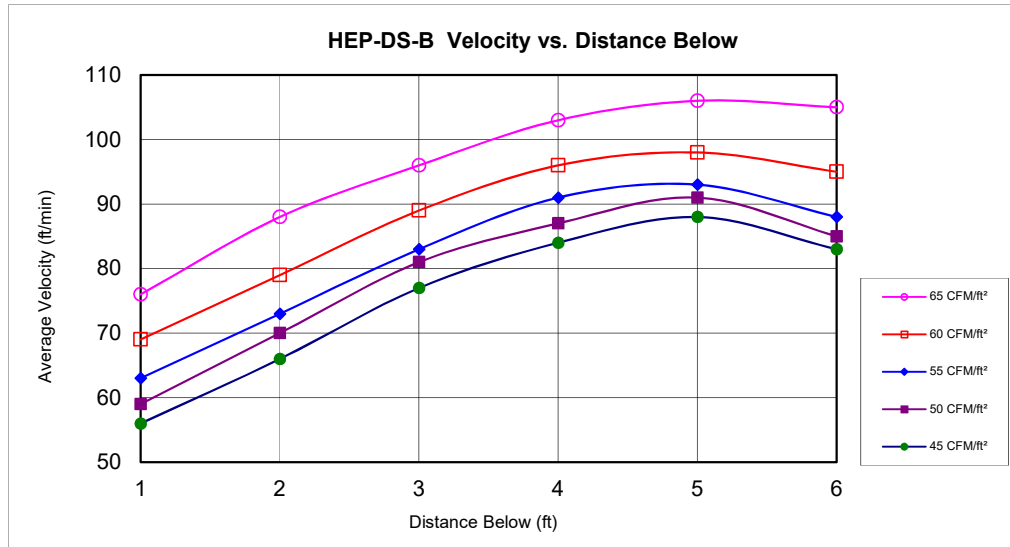


Table 2: Static Pressure & Noise Measurement

STATIC PRESSURE AND SOUND LEVEL		
CFM/FT ²	DUCT APPLICATION	
	STATIC PRESSURE ³	N.C. LEVEL ^{4,5}
45	0.43	27
50	0.49	29
55	0.55	32
60	0.61	34
65	0.68	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 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 HEPA-VENT DS Supply Diffuser

Product Performance Data for

Model HEP-DS-C (70-100 CFM/ft²)

Table 1: Air Flow Performance Data

AVERAGE VELOCITIES BELOW MODULES @ 5°F D.T.D. ¹						
FACE VELOCITY (CFM/FT ²) ²	DISTANCE BELOW FACE (FT)					
	1	2	3	4	5	6
70	82	76	73	70	68	67
80	94	89	87	85	82	76
90	104	100	98	94	92	86
100	111	106	102	99	94	89

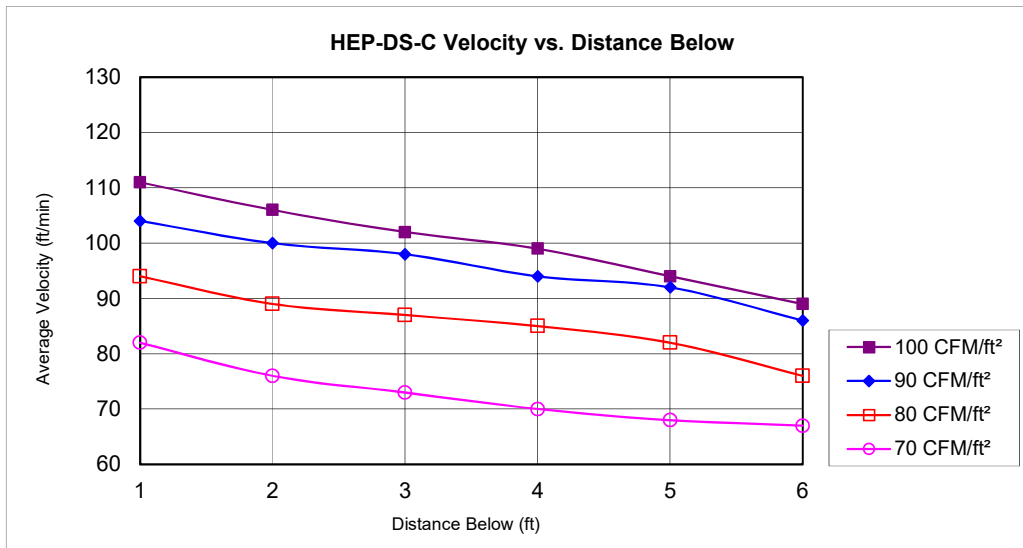


Table 2: Static Pressure & Noise Measurement

STATIC PRESSURE AND SOUND LEVEL		
CFM/FT ²	DUCT APPLICATION	
	STATIC PRESSURE ³	N.C. LEVEL ^{4,5}
70	0.47	25
80	0.55	29
90	0.63	32
100	0.73	35

- 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, with high flow 100mm media filter thickness
- 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).

