



# ENGINEERING DATA

## FVPS 1-Way

6" Inlet 1 Slot 1-Way	24"	Airflow (CFM)	20	38	55	73	90	108	125
		Total Pressure	0.008	0.028	0.060	0.104	0.160	0.228	0.308
		Static Pressure	0.007	0.025	0.054	0.094	0.145	0.207	0.280
		Noise Criteria	-	17	23	28	32	35	37
		Throw	1-1-5	2-4-10	4-8-13	7-10-14	8-11-16	10-12-18	11-13-19
	48"	Airflow (CFM)	40	65	90	115	140	165	190
		Total Pressure	0.011	0.028	0.054	0.087	0.129	0.180	0.238
		Static Pressure	0.008	0.020	0.039	0.064	0.094	0.131	0.174
		Noise Criteria	-	17	23	27	30	33	35
		Throw	1-2-7	2-4-13	4-8-16	6-12-18	9-14-20	11-15-22	13-17-23
8" Inlet 1 Slot 1-Way	24"	Airflow (CFM)	25	38	50	63	75	88	100
		Total Pressure	0.018	0.041	0.072	0.113	0.163	0.221	0.289
		Static Pressure	0.018	0.040	0.071	0.110	0.159	0.216	0.282
		Noise Criteria	-	15	20	24	27	29	32
		Throw	1-2-7	2-4-10	3-7-12	5-9-13	7-10-15	8-11-16	9-12-17
	48"	Airflow (CFM)	40	70	100	130	160	190	220
		Total Pressure	0.008	0.024	0.050	0.084	0.127	0.179	0.240
		Static Pressure	0.007	0.021	0.043	0.072	0.110	0.154	0.207
		Noise Criteria	-	17	23	27	31	33	36
		Throw	1-2-7	2-5-14	5-10-17	8-13-19	11-15-21	13-17-23	15-18-25
10" Inlet 1 Slot 1-Way	24"	Airflow (CFM)	40	45	50	55	60	65	70
		Total Pressure	0.092	0.117	0.144	0.175	0.208	0.244	0.283
		Static Pressure	0.092	0.116	0.144	0.174	0.207	0.243	0.281
		Noise Criteria	15	17	19	20	22	23	24
		Throw	2-5-11	3-6-11	3-7-12	4-8-13	5-8-13	6-9-14	6-10-14
	48"	Airflow (CFM)	40	75	110	145	180	215	250
		Total Pressure	0.008	0.029	0.062	0.107	0.165	0.235	0.318
		Static Pressure	0.008	0.027	0.057	0.099	0.153	0.219	0.296
		Noise Criteria	-	17	23	28	31	34	37
		Throw	1-2-7	3-6-15	6-11-18	10-14-20	12-16-23	14-18-25	15-19-27
6" Inlet 2 Slot 1-Way	24"	Airflow (CFM)	30	55	80	105	130	155	180
		Total Pressure	0.006	0.020	0.042	0.073	0.112	0.159	0.214
		Static Pressure	0.004	0.015	0.031	0.053	0.081	0.116	0.156
		Noise Criteria	-	14	21	25	29	32	34
		Throw	1-1-5	2-4-11	4-8-14	7-11-16	9-13-18	11-14-19	12-15-21
	48"	Airflow (CFM)	50	90	130	170	210	250	290
		Total Pressure	0.010	0.031	0.065	0.110	0.169	0.239	0.321
		Static Pressure	0.005	0.016	0.034	0.059	0.090	0.127	0.171
		Noise Criteria	-	14	20	24	28	31	33
		Throw	1-1-5	2-4-13	4-9-18	7-13-20	10-15-23	12-17-25	14-19-26
8" Inlet 2 Slot 1-Way	24"	Airflow (CFM)	40	70	100	130	160	190	220
		Total Pressure	0.008	0.024	0.050	0.084	0.127	0.179	0.240
		Static Pressure	0.007	0.021	0.043	0.072	0.110	0.154	0.207
		Noise Criteria	-	17	23	27	31	33	36
		Throw	1-2-8	3-7-13	6-10-16	9-13-18	11-14-20	12-15-21	13-16-23
	48"	Airflow (CFM)	60	105	150	195	240	285	330
		Total Pressure	0.007	0.023	0.046	0.078	0.119	0.167	0.224
		Static Pressure	0.005	0.015	0.031	0.052	0.079	0.111	0.149
		Noise Criteria	-	14	20	25	28	31	34
		Throw	1-2-7	2-6-15	5-11-19	9-14-22	12-17-24	14-19-26	16-20-28
10" Inlet 2 Slot 1-Way	24"	Airflow (CFM)	50	83	115	148	180	213	245
		Total Pressure	0.013	0.035	0.067	0.111	0.165	0.230	0.306
		Static Pressure	0.012	0.032	0.063	0.103	0.153	0.214	0.284
		Noise Criteria	-	18	24	28	31	34	37
		Throw	2-4-10	4-9-14	8-12-17	10-13-19	12-15-21	13-16-23	14-17-24
	48"	Airflow (CFM)	70	120	170	220	270	320	370
		Total Pressure	0.007	0.022	0.044	0.073	0.110	0.155	0.207
		Static Pressure	0.006	0.017	0.033	0.056	0.084	0.118	0.157
		Noise Criteria	-	15	21	26	29	32	34
		Throw	1-2-10	3-7-17	7-13-20	11-16-23	13-18-26	16-20-28	17-21-30

### Notes:

1. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991. Actual performance with flexible duct inlet may vary in the field.
2. Engineering Units: Static Pressure = in. wc; Total Pressure = in. wc; Throw = ft at 150, 100, & 50 fpm.
3. Throw values given are for isothermal conditions.
4. NC is based upon 10dB room absorption (Re:  $10^{-12}$  watts) evaluated at 125 through 4000 Hz octave bands.
5. Dash (-) in space denotes an NC value of less than 10.



# ENGINEERING DATA

## FVPS 1-Way

6" Inlet 3 Slot 1-Way	24"	Airflow (CFM)	40	73	105	138	170	203	235
		Total Pressure	0.007	0.024	0.051	0.087	0.133	0.188	0.253
		Static Pressure	0.004	0.015	0.031	0.053	0.081	0.115	0.155
		Noise Criteria	-	14	20	25	28	31	34
		Throw	1-2-7	3-6-12	6-9-14	8-12-17	10-13-18	12-14-20	13-15-22
	48"	Airflow (CFM)	70	115	160	205	250	295	340
		Total Pressure	0.016	0.042	0.082	0.134	0.199	0.277	0.368
		Static Pressure	0.007	0.018	0.036	0.059	0.087	0.122	0.162
		Noise Criteria	-	13	18	22	26	28	31
		Throw	1-2-8	2-5-14	5-10-18	7-13-20	10-16-22	12-17-24	14-18-26
8" Inlet 3 Slot 1-Way	24"	Airflow (CFM)	50	90	130	170	210	250	290
		Total Pressure	0.007	0.022	0.047	0.080	0.122	0.173	0.232
		Static Pressure	0.005	0.017	0.035	0.060	0.091	0.129	0.174
		Noise Criteria	-	16	22	26	30	33	35
		Throw	1-3-9	4-8-13	8-11-16	10-13-18	12-14-20	13-16-22	14-17-24
	48"	Airflow (CFM)	80	140	200	260	320	380	440
		Total Pressure	0.010	0.030	0.061	0.104	0.157	0.222	0.297
		Static Pressure	0.005	0.017	0.034	0.057	0.087	0.122	0.164
		Noise Criteria	-	14	20	24	28	31	33
		Throw	1-3-10	3-8-17	7-12-20	11-16-23	13-18-25	16-19-28	17-21-30
10" Inlet 3 Slot 1-Way	24"	Airflow (CFM)	60	105	150	195	240	285	330
		Total Pressure	0.008	0.025	0.051	0.086	0.131	0.184	0.247
		Static Pressure	0.007	0.021	0.043	0.072	0.110	0.155	0.207
		Noise Criteria	-	17	23	27	31	34	36
		Throw	2-4-11	6-9-14	9-12-17	11-14-20	13-15-22	14-17-24	15-18-26
	48"	Airflow (CFM)	100	165	230	295	360	425	490
		Total Pressure	0.010	0.027	0.053	0.088	0.131	0.182	0.242
		Static Pressure	0.006	0.018	0.034	0.056	0.084	0.117	0.155
		Noise Criteria	-	16	21	25	29	32	34
		Throw	2-4-12	5-10-18	9-14-21	12-17-24	15-19-27	17-21-29	18-22-31
6" Inlet 4 Slot 1-Way	24"	Airflow (CFM)	50	90	130	170	210	250	290
		Total Pressure	0.010	0.031	0.065	0.110	0.169	0.239	0.321
		Static Pressure	0.005	0.016	0.034	0.059	0.090	0.127	0.171
		Noise Criteria	-	14	20	24	28	31	33
		Throw	1-2-8	4-7-12	7-10-15	9-12-17	11-13-18	12-14-20	13-15-22
	48"	Airflow (CFM)	90	133	175	218	260	303	345
		Total Pressure	0.024	0.051	0.089	0.138	0.197	0.266	0.346
		Static Pressure	0.009	0.020	0.034	0.053	0.076	0.103	0.133
		Noise Criteria	-	11	16	20	23	25	27
		Throw	1-3-10	3-6-15	5-10-17	7-12-19	10-15-21	11-16-22	13-17-24
8" Inlet 4 Slot 1-Way	24"	Airflow (CFM)	70	115	160	205	250	295	340
		Total Pressure	0.010	0.027	0.053	0.087	0.129	0.179	0.238
		Static Pressure	0.007	0.018	0.035	0.058	0.086	0.119	0.158
		Noise Criteria	-	16	22	26	29	32	34
		Throw	2-5-10	6-9-14	9-11-16	11-13-18	12-14-20	13-15-22	14-17-23
	48"	Airflow (CFM)	100	170	240	310	380	450	520
		Total Pressure	0.013	0.038	0.076	0.127	0.191	0.268	0.358
		Static Pressure	0.006	0.018	0.037	0.061	0.092	0.129	0.172
		Noise Criteria	-	14	19	24	27	30	32
		Throw	2-4-11	4-10-17	9-14-20	12-16-22	14-18-25	16-19-27	17-21-29
10" Inlet 4 Slot 1-Way	24"	Airflow (CFM)	70	125	180	235	290	345	400
		Total Pressure	0.007	0.024	0.049	0.083	0.127	0.180	0.242
		Static Pressure	0.006	0.024	0.037	0.063	0.097	0.137	0.184
		Noise Criteria	-	16	22	27	30	33	36
		Throw	2-5-11	7-10-14	10-12-17	11-14-20	13-15-22	14-17-24	15-18-25
	48"	Airflow (CFM)	120	200	280	360	440	520	600
		Total Pressure	0.012	0.033	0.065	0.107	0.159	0.223	0.297
		Static Pressure	0.007	0.018	0.036	0.060	0.089	0.125	0.166
		Noise Criteria	-	15	21	25	28	31	34
		Throw	2-5-14	6-11-18	11-15-21	14-17-24	15-19-27	17-21-29	18-22-31

### Notes:

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2. Engineering Units: Static Pressure = in. wc; Total Pressure = in. wc; Throw = ft at 150, 100, & 50 fpm.
3. Throw values given are for isothermal conditions.
4. NC is based upon 10dB room absorption (Re:  $10^{-12}$  watts) evaluated at 125 through 4000 Hz octave bands.
5. Dash (-) in space denotes an NC value of less than 10.



# ENGINEERING DATA

## FVPS 2-Way

6" Inlet 2 Slot 2-Way	24"	Airflow (CFM)	80	105	130	155	180	205	230
		Total Pressure	0.042	0.073	0.112	0.159	0.214	0.278	0.349
		Static Pressure	0.031	0.053	0.081	0.116	0.156	0.203	0.255
		Noise Criteria	21	25	29	32	34	37	39
		Throw	2-4-8	3-6-9	4-7-11	6-7-11	7-8-11	7-9-12	7-9-13
	48"	Airflow (CFM)	160	200	240	280	320	360	400
		Total Pressure	0.098	0.153	0.220	0.300	0.391	0.495	0.612
		Static Pressure	0.052	0.081	0.117	0.160	0.208	0.264	0.326
		Noise Criteria	23	27	30	33	35	37	39
		Throw	3-6-11	4-8-12	6-9-13	7-10-14	8-11-15	9-11-16	10-12-17
8" Inlet 2 Slot 2-Way	24"	Airflow (CFM)	80	110	140	170	200	230	260
		Total Pressure	0.032	0.060	0.097	0.144	0.199	0.263	0.336
		Static Pressure	0.027	0.052	0.084	0.124	0.171	0.226	0.289
		Noise Criteria	19	24	28	32	34	37	39
		Throw	-4-8	4-6-9	5-7-10	6-8-11	7-8-12	7-9-13	8-10-14
	48"	Airflow (CFM)	160	205	250	295	340	385	430
		Total Pressure	0.053	0.087	0.129	0.179	0.238	0.305	0.381
		Static Pressure	0.035	0.058	0.086	0.119	0.158	0.203	0.253
		Noise Criteria	22	26	29	32	34	36	38
		Throw	3-6-11	4-8-12	7-9-13	8-10-15	9-11-16	10-12-17	10-12-18
10" Inlet 2 Slot 2-Way	24"	Airflow (CFM)	80	113	145	178	210	243	275
		Total Pressure	0.033	0.064	0.107	0.160	0.225	0.299	0.385
		Static Pressure	0.030	0.060	0.099	0.149	0.209	0.278	0.358
		Noise Criteria	18	23	28	31	34	36	38
		Throw	2-4-8	4-6-9	5-7-10	7-8-11	7-9-12	8-9-13	8-10-14
	48"	Airflow (CFM)	160	210	260	310	360	410	460
		Total Pressure	0.039	0.067	0.102	0.145	0.196	0.254	0.320
		Static Pressure	0.029	0.051	0.078	0.110	0.149	0.193	0.243
		Noise Criteria	20	25	29	31	34	36	38
		Throw	3-6-11	5-8-12	7-10-14	8-11-15	9-11-16	10-12-17	11-13-18
8" Inlet 4 Slot 2-Way	24"	Airflow (CFM)	150	195	240	285	330	375	420
		Total Pressure	0.046	0.078	0.119	0.167	0.224	0.290	0.363
		Static Pressure	0.031	0.052	0.079	0.111	0.149	0.193	0.242
		Noise Criteria	20	25	28	31	34	36	38
		Throw	3-6-10	5-8-12	7-9-13	8-10-14	9-11-15	9-12-16	10-12-17
	48"	Airflow (CFM)	400	470	540	610	680	750	820
		Total Pressure	0.212	0.293	0.387	0.493	0.613	0.746	0.891
		Static Pressure	0.102	0.141	0.186	0.237	0.294	0.358	0.428
		Noise Criteria	28	31	33	35	37	39	40
		Throw	8-12-17	9-13-18	11-14-20	12-15-21	13-16-22	13-16-23	14-17-24
10" Inlet 4 Slot 2-Way	24"	Airflow (CFM)	150	205	260	315	370	425	480
		Total Pressure	0.034	0.064	0.102	0.150	0.207	0.273	0.348
		Static Pressure	0.026	0.048	0.078	0.114	0.157	0.208	0.265
		Noise Criteria	19	25	29	32	34	37	39
		Throw	3-6-10	6-9-12	7-10-14	9-11-15	9-12-16	10-12-17	11-13-19
	48"	Airflow (CFM)	400	480	560	640	720	800	880
		Total Pressure	0.132	0.190	0.258	0.337	0.427	0.527	0.638
		Static Pressure	0.074	0.106	0.145	0.189	0.239	0.295	0.357
		Noise Criteria	27	30	32	35	37	38	40
		Throw	8-12-17	10-13-19	11-14-20	12-15-21	13-16-23	14-17-24	15-18-25

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