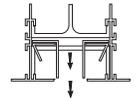


**PERFORMANCE DATA • VERTICAL JET THROW SERIES**

**MODELS: FLV (10, 15, 20, 25 & 30) • CONTINUOUS PRESSURIZED PLENUM**



**A**

**FLOWLINE™ LINEAR DIFFUSERS**

Slot Width	Slots	Airflow, CFM/FT.	20	40	60	80	100	120	140
		Static Pressure	.005	.018	.041	.074	.114	.164	.223
Noise Criteria	—	—	<15	20	24	30	35		
Throw	1-3-10	4-10-21	10-15-29	14-21-33	18-26-37	21-19-41	24-31-44		
1" Slot Width	1 Slot	Airflow, CFM/FT.	20	40	60	80	100	120	140
		Static Pressure	.005	.018	.041	.074	.114	.164	.223
Noise Criteria	—	—	<15	20	24	30	35		
Throw	1-3-10	4-10-21	10-15-29	14-21-33	18-26-37	21-19-41	24-31-44		
1" Slot Width	2 Slot	Airflow, CFM/FT.	40	85	130	175	220	265	310
		Static Pressure	.005	.024	.056	.102	.161	.234	.320
Noise Criteria	—	<15	20	27	32	37	42		
Throw	2-4-17	9-18-32	19-28-40	25-32-45	30-36-51	32-40-56	35-43-61		
1.5" Slot Width	1 Slot	Airflow, CFM/FT.	30	60	90	120	150	180	210
		Static Pressure	.005	.020	.045	.080	.125	.180	.245
Noise Criteria	—	—	<15	20	26	32	37		
Throw	1-3-12	6-12-24	12-19-34	17-24-40	21-31-44	24-34-48	29-36-52		
1.5" Slot Width	2 Slot	Airflow, CFM/FT.	60	120	180	240	300	360	420
		Static Pressure	.006	.023	.052	.093	.145	.209	.285
Noise Criteria	—	<15	16	24	31	37	43		
Throw	2-6-20	9-20-36	20-31-44	28-36-51	33-41-57	36-44-63	39-47-67		
2" Slot Width	1 Slot	Airflow, CFM/FT.	35	75	115	155	195	235	275
		Static Pressure	.004	.019	.044	.080	.126	.183	.251
Noise Criteria	<15	15	21	25	29	34	39		
Throw	1-2-8	4-9-20	9-15-29	14-21-33	18-26-37	21-29-41	25-31-44		
2" Slot Width	2 Slot	Airflow, CFM/FT.	70	150	230	310	390	470	550
		Static Pressure	.005	.022	.051	.092	.146	.212	.291
Noise Criteria	<15	19	25	29	34	39	44		
Throw	2-3-13	7-14-30	15-26-37	23-31-43	28-34-48	31-37-54	33-41-58		
2.5" Slot Width	1 Slot	Airflow, CFM/FT.	40	95	150	205	260	315	370
		Static Pressure	.004	.020	.050	.094	.151	.222	.306
Noise Criteria	<15	<15	16	24	29	35	48		
Throw	1-2-7	4-10-22	11-18-31	16-25-37	20-30-42	25-32-42	29-36-50		
2.5" Slot Width	2 Slot	Airflow, CFM/FT.	80	190	300	410	520	630	740
		Static Pressure	.004	.023	.058	.108	.174	.256	.353
Noise Criteria	<15	<15	20	26	35	41	46		
Throw	1-3-11	7-16-33	18-29-42	26-34-48	31-38-54	35-43-60	37-46-65		
3" Slot Width	1 Slot	Airflow, CFM/FT.	50	115	180	245	310	375	440
		Static Pressure	.004	.021	.052	.097	.155	.226	.312
Noise Criteria	<15	<15	16	26	32	37	42		
Throw	1-2-8	5-11-25	12-20-34	17-26-40	22-31-45	26-35-49	31-37-54		
3" Slot Width	2 Slot	Airflow, CFM/FT.	100	230	360	490	620	750	880
		Static Pressure	.005	.025	.060	.112	.179	.261	.360
Noise Criteria	<15	<15	21	29	36	41	45		
Throw	2-3-13	8-17-36	19-31-44	29-37-52	33-41-58	37-45-64	40-49-70		

**NC Correction Factors for Various Lengths**

Length (ft.)	2	4	6	8	9	10	15
Supply	-3	0	+2	+3	+4	+5	+8
Return	0	+3	+5	+6	+7	+8	+11

**Throw Correction Factors for Various Lengths**

Length (ft.)	2	4	6	8	10	12
Multiplier	0.80	1.00	1.20	1.30	1.40	1.50

**Performance Notes:**

- Data is based upon pressurized plenum application (non ducted) with no plenum effect for pressure or sound. Plenums should be sized to achieve equal velocity along the slot length. Keep duct inlet velocities below 700 fpm in order to maintain cataloged performance.
- All pressures are in inches w.g..
- Throw values are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Throw data is based on active sections 4 ft. (1219) long. For other lengths, use the correction factor table above.
- Throw values are based on pattern controller set 100% open.
- Noise criteria values are based on 10 dB room absorption, re 10<sup>-12</sup> watts, for a 4 ft. section. For other lengths, use the correction factor table above.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2023.