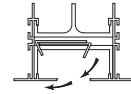


Performance Data • Horizontal High Throw Series

Models: FLH (10, 15, 20, 25 and 30) • Continuous Pressurized Plenum



A
FLOWLINE™ LINEAR DIFFUSERS

Slot Width	Slot	Airflow, cfm/ft.	20	35	50	65	80	95	110
		Static Pressure	0.013	0.039	0.080	0.135	0.205	0.289	0.387
1"	1 Slot	NC (Noise Criteria)	<15	<15	23	30	36	42	45
		Throw	4-6-12	7-11-16	10-14-20	13-16-22	15-18-25	16-20-27	17-21-30
		Airflow, cfm/ft.	40	70	100	130	160	190	220
		Static Pressure	0.013	0.039	0.080	0.135	0.205	0.289	0.387
1"	2 Slot	NC (Noise Criteria)	<15	<15	25	33	39	45	48
		Throw	5-8-17	10-15-24	15-20-29	17-22-32	19-25-35	20-28-38	22-30-40
		Airflow, cfm/ft.	25	40	55	70	85	100	115
		Static Pressure	0.011	0.029	0.054	0.089	0.130	0.180	0.237
1.5"	1 Slot	NC (Noise Criteria)	<15	<15	17	25	31	36	40
		Throw	5-8-12	9-12-17	12-15-20	14-17-22	15-18-25	16-20-28	17-21-30
		Airflow, cfm/ft.	55	80	105	130	155	180	205
		Static Pressure	0.014	0.029	0.049	0.076	0.108	0.145	0.189
1.5"	2 Slot	NC (Noise Criteria)	<15	<15	16	26	31	35	39
		Throw	8-12-19	12-17-25	15-20-29	17-22-31	20-26-35	21-27-39	23-30-40
		Airflow, cfm/ft.	25	45	65	85	105	125	145
		Static Pressure	0.007	0.021	0.044	0.075	0.115	0.163	0.219
2"	1 Slot	NC (Noise Criteria)	<15	<15	19	24	32	38	43
		Throw	4-8-13	8-12-18	11-16-22	14-19-26	16-21-30	17-22-31	20-24-34
		Airflow, cfm/ft.	45	85	125	165	205	245	285
		Static Pressure	0.005	0.019	0.042	0.073	0.113	0.161	0.218
2"	2 Slot	NC (Noise Criteria)	<15	<15	19	26	34	40	45
		Throw	4-9-15	11-16-25	16-21-29	21-26-37	23-28-40	26-31-42	27-32-44
		Airflow, cfm/ft.	30	55	80	105	130	155	180
		Static Pressure	0.009	0.031	0.065	0.113	0.173	0.245	0.331
2.5"	1 Slot	NC (Noise Criteria)	<15	<15	18	25	30	34	39
		Throw	3-7-16	9-14-21	13-18-26	15-20-29	18-22-33	20-25-36	21-27-39
		Airflow, cfm/ft.	60	105	150	195	240	285	330
		Static Pressure	0.009	0.028	0.057	0.097	0.147	0.207	0.278
2.5"	2 Slot	NC (Noise Criteria)	<15	<15	21	27	32	37	41
		Throw	7-12-22	13-19-28	19-24-35	22-27-39	25-31-44	27-33-48	29-36-51
		Airflow, cfm/ft.	30	60	90	120	150	180	210
		Static Pressure	0.008	0.033	0.074	0.131	0.205	0.296	0.403
3"	1 Slot	NC (Noise Criteria)	<15	<15	15	24	30	35	40
		Throw	3-6-15	10-14-22	14-19-27	17-23-32	19-25-35	22-27-39	24-29-42
		Airflow, cfm/ft.	60	120	180	240	300	360	420
		Static Pressure	0.008	0.033	0.074	0.131	0.205	0.296	0.403
3"	2 Slot	NC (Noise Criteria)	<15	<15	18	27	33	38	43
		Throw	4-9-20	12-20-31	19-26-38	24-31-44	27-34-48	30-37-53	32-40-57
		Airflow, cfm/ft.	30	60	90	120	150	180	210
		Static Pressure	0.008	0.033	0.074	0.131	0.205	0.296	0.403

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

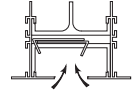
Length (ft.)	2	4	6	8	10	12
Multiplier	0.70	1.00	1.25	1.40	1.55	1.70

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.
- NC (Noise criteria) values are based on 10 dB room absorption, re 10⁻¹² watts, for a 4 ft. section. For other lengths, use the correction factor table above.
- Throw values are based on a 1-way air pattern. For 2-way pattern, throw is determined from the 1 slot data at half the specified air volume.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.

Performance Data • Return Air Applications

Models: FLH (10, 15, 20, 25 and 30)



Slot Width	Slots	Airflow, cfm/ft.	20	35	50	65	80	95	110
		Static Pressure	0.014	0.043	0.088	0.149	0.226	0.318	0.426
		NC (Noise Criteria)	<15	<18	26	33	39	45	48
1"	2 Slot	Airflow, cfm/ft.	40	70	100	130	160	190	220
		Static Pressure	0.014	0.043	0.088	0.149	0.226	0.318	0.426
		NC (Noise Criteria)	<15	<19	28	36	42	48	51
1.5"	1 Slot	Airflow, cfm/ft.	25	40	55	70	85	100	115
		Static Pressure	0.012	0.032	0.059	0.098	0.143	0.198	0.261
		NC (Noise Criteria)	<15	<15	20	28	34	39	43
1.5"	2 Slot	Airflow, cfm/ft.	55	80	105	130	155	180	205
		Static Pressure	0.015	0.032	0.054	0.084	0.119	0.160	0.208
		NC (Noise Criteria)	<15	<15	19	29	34	38	42
2"	1 Slot	Airflow, cfm/ft.	25	45	65	85	105	125	145
		Static Pressure	0.008	0.023	0.048	0.083	0.127	0.179	0.241
		NC (Noise Criteria)	<15	<15	22	27	35	41	46
2"	2 Slot	Airflow, cfm/ft.	45	85	125	165	205	245	285
		Static Pressure	0.002	0.006	0.012	0.021	0.033	0.046	0.063
		NC (Noise Criteria)	<15	<15	22	29	37	43	48
2.5"	1 Slot	Airflow, cfm/ft.	30	55	80	105	130	155	180
		Static Pressure	0.010	0.034	0.074	0.124	0.190	0.270	0.364
		NC (Noise Criteria)	<15	<15	21	28	33	37	42
2.5"	2 Slot	Airflow, cfm/ft.	60	105	150	195	240	285	330
		Static Pressure	0.010	0.031	0.063	0.107	0.162	0.228	0.306
		NC (Noise Criteria)	<15	<15	24	30	35	40	44
3"	1 Slot	Airflow, cfm/ft.	30	60	90	120	150	180	210
		Static Pressure	0.009	0.036	0.081	0.144	0.226	0.326	0.443
		NC (Noise Criteria)	<15	<15	18	27	33	38	43
3"	2 Slot	Airflow, cfm/ft.	60	120	180	240	300	360	420
		Static Pressure	0.036	0.144	0.326	0.579	0.903	1.301	1.771
		NC (Noise Criteria)	<15	<15	22	30	36	41	46

NC Correction Factors for Various Lengths

Length (ft.)	2	4	6	8	9	10	15
Return	-3	0	+1	+2	+3	+5	+7

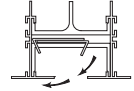
Performance Notes:

1. Data is based upon a ductless return application.
2. All pressures are in inches w.g..
3. NC (Noise criteria) values are based on 10 dB room absorption, re 10⁻¹² watts, for a 4 ft. (1219) section. For other lengths, use the correction factor table above.
4. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.

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FLOWLINE™ LINEAR DIFFUSERS

Performance Data • Horizontal High Throw Series
Models: FLH/FTH (10 and 15) • 1 Slot with Nailor Plenum

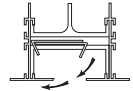


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FLOWLINE™ LINEAR DIFFUSERS

Slot Width	Inlet Dia.	Height	Airflow, cfm								
			25	50	75	100	125	150	175		
1" Slot Width	1 Slot 6" Dia. Inlet	2 Ft.	Airflow, cfm	25	50	75	100	125	150	175	
			Total Pressure	0.008	0.034	0.075	0.132	0.206	0.297	0.040	
			Static Pressure	0.007	0.030	0.065	0.115	0.180	0.260	0.350	
		4 Ft.	NC (Noise Criteria)	<15	<15	<15	20	29	36	40	
			Throw	1-2-5	3-6-9	5-9-12	7-10-13	8-10-14	9-11-16	10-12-18	
			Airflow, cfm	40	80	120	160	200	240	280	
		5 Ft.	Total Pressure	0.009	0.031	0.066	0.117	0.180	0.264	0.352	
			Static Pressure	0.006	0.020	0.042	0.075	0.115	0.170	0.225	
			NC (Noise Criteria)	<15	<15	<15	17	25	32	38	
	5 Ft.	Throw	1-2-5	3-6-12	5-9-15	8-12-17	10-12-18	12-15-20	13-16-22		
		Airflow, cfm	50	100	150	200	250	300	350		
		Total Pressure	0.009	0.036	0.079	0.140	0.217	0.316	0.424		
	1" Slot Width	1 Slot 8" Dia. Inlet	2 Ft.	Total Pressure	0.005	0.020	0.042	0.075	0.115	0.170	0.225
				Static Pressure	0.005	0.020	0.042	0.075	0.115	0.170	0.225
				NC (Noise Criteria)	<15	<15	<15	18	26	33	38
4 Ft.			Throw	1-2-7	3-7-13	8-10-17	10-13-19	12-15-20	14-16-22	15-17-24	
			Airflow, cfm	50	75	100	125	150	175	200	
			Total Pressure	0.029	0.068	0.119	0.188	0.272	0.358	0.471	
5 Ft.			Static Pressure	0.028	0.065	0.114	0.180	0.260	0.342	0.450	
			NC (Noise Criteria)	<15	<15	20	28	35	41	44	
			Throw	2-5-9	5-9-11	7-10-14	8-11-15	9-12-18	10-12-19	11-13-20	
5 Ft.		Airflow, cfm	70	110	150	190	230	270	310		
		Total Pressure	0.016	0.040	0.075	0.120	0.176	0.242	0.319		
		Static Pressure	0.014	0.034	0.063	0.101	0.149	0.205	0.270		
5 Ft.		NC (Noise Criteria)	<15	<15	<15	23	30	36	41		
		Throw	2-4-10	6-8-14	7-11-17	9-13-19	10-15-22	13-16-24	15-18-26		
		Airflow, cfm	80	130	180	230	280	330	380		
1.5" Slot Width	1 Slot 6" Dia. Inlet	2 Ft.	Total Pressure	0.007	0.025	0.056	0.093	0.142	0.206	0.283	
			Static Pressure	0.006	0.020	0.044	0.072	0.110	0.160	0.220	
			NC (Noise Criteria)	<15	<15	<15	23	29	35	40	
		4 Ft.	Throw	2-5-11	6-9-15	8-12-18	9-14-20	11-15-22	13-17-24	14-18-26	
			Airflow, cfm	30	60	90	120	150	180	210	
			Total Pressure	0.002	0.038	0.088	0.148	0.246	0.367	0.471	
		5 Ft.	Static Pressure	0.001	0.032	0.075	0.125	0.210	0.315	0.400	
			NC (Noise Criteria)	<15	<15	<15	22	31	39	44	
			Throw	1-4-7	4-7-11	6-9-13	8-10-15	10-13-17	11-14-19	12-15-20	
	5 Ft.	Airflow, cfm	70	110	150	190	230	270	310		
		Total Pressure	0.021	0.045	0.089	0.148	0.206	0.288	0.376		
		Static Pressure	0.013	0.025	0.052	0.089	0.120	0.170	0.220		
	5 Ft.	NC (Noise Criteria)	<15	<15	<15	20	24	30	36		
		Throw	2-5-11	5-8-15	8-12-17	10-13-19	12-15-20	13-16-21	14-17-23		
		Airflow, cfm	85	135	185	235	285	335	385		
1.5" Slot Width	1 Slot 8" Dia. Inlet	2 Ft.	Total Pressure	0.013	0.055	0.101	0.165	0.247	0.342	0.440	
			Static Pressure	0.001	0.025	0.045	0.075	0.115	0.160	0.200	
			NC (Noise Criteria)	<15	<15	<15	20	26	31	37	
		4 Ft.	Throw	2-5-11	5-19-15	8-13-18	11-15-21	12-17-23	14-18-25	15-20-27	
			Airflow, cfm	30	60	90	120	150	180	210	
			Total Pressure	0.002	0.032	0.076	0.128	0.222	0.317	0.428	
		5 Ft.	Static Pressure	0.001	0.030	0.072	0.120	0.210	0.300	0.405	
			NC (Noise Criteria)	<15	<15	<15	23	31	40	44	
			Throw	1-4-7	4-7-11	7-9-13	8-12-15	10-13-17	11-14-18	12-15-19	
	5 Ft.	Airflow, cfm	70	120	170	220	270	320	370		
		Total Pressure	0.015	0.035	0.075	0.125	0.207	0.272	0.380		
		Static Pressure	0.012	0.027	0.060	0.100	0.170	0.220	0.310		
	5 Ft.	NC (Noise Criteria)	<15	<15	<15	22	30	36	44		
		Throw	2-5-11	6-9-15	9-13-18	12-15-21	14-17-23	15-19-25	16-20-26		
		Airflow, cfm	85	145	205	265	325	385	445		
5 Ft.	Total Pressure	0.016	0.041	0.084	0.131	0.204	0.276	0.401			
	Static Pressure	0.012	0.030	0.062	0.095	0.150	0.200	0.300			
	NC (Noise Criteria)	<15	<15	<15	23	30	36	43			
5 Ft.	Throw	2-5-11	6-10-16	9-13-20	12-17-23	15-19-25	16-20-27	17-21-29			

For performance table notes, see page A28.

Performance Data • Horizontal High Throw Series
Models: FLH/FTH (20 and 25) • 1 Slot with Nailor Plenum



2" Slot Width	1 Slot 8" Dia. Inlet	2 Ft.	Airflow, cfm	40	80	120	160	200	240	280
			Total Pressure	0.007	0.028	0.065	0.115	0.180	0.259	0.352
			Static Pressure	0.006	0.025	0.057	0.102	0.159	0.229	0.312
			NC (Noise Criteria)	<15	<15	<15	17	26	31	38
		Throw	1-3-8	5-8-13	7-10-15	10-13-17	11-14-19	12-15-22	13-16-23	
		4 Ft.	Airflow, cfm	100	150	200	250	300	350	400
			Total Pressure	0.015	0.034	0.040	0.094	0.136	0.185	0.241
			Static Pressure	0.010	0.022	0.040	0.062	0.089	0.122	0.159
			NC (Noise Criteria)	<15	<15	<15	15	22	30	37
		Throw	3-4-11	6-9-14	8-12-17	9-13-19	12-14-23	14-25-27	15-17-28	
		5 Ft.	Airflow, cfm	125	180	235	290	345	400	455
			Total Pressure	0.180	0.037	0.064	0.097	0.137	0.184	0.238
Static Pressure	0.010		0.021	0.035	0.535	0.076	0.102	0.132		
NC (Noise Criteria)	<15		<15	<15	22	29	34	39		
Throw	3-6-12	8-12-17	9-13-19	12-14-23	14-13-26	16-18-28	17-21-30			
2" Slot Width	1 Slot 12" Oval Inlet	2 Ft.	Airflow, cfm	50	100	150	200	250	300	350
			Total Pressure	0.007	0.028	0.064	0.113	0.177	0.254	0.346
			Static Pressure	0.007	0.027	0.060	0.108	0.168	0.242	0.329
			NC (Noise Criteria)	<15	<15	<15	17	24	29	37
		Throw	2-5-10	5-8-12	6-10-14	8-12-17	9-13-19	10-14-22	13-16-25	
		4 Ft.	Airflow, cfm	100	170	240	310	380	450	520
			Total Pressure	0.008	0.023	0.045	0.076	0.114	0.169	0.213
			Static Pressure	0.065	0.019	0.038	0.063	0.094	0.132	0.176
			NC (Noise Criteria)	<15	<15	<15	20	27	33	39
		Throw	3-6-12	7-11-15	9-13-19	11-15-23	14-17-27	15-19-30	16-21-34	
		5 Ft.	Airflow, cfm	125	205	285	365	445	525	605
			Total Pressure	0.009	0.023	0.045	0.074	0.109	0.152	0.202
Static Pressure	0.007		0.018	0.034	0.056	0.083	0.115	0.153		
NC (Noise Criteria)	<15		<15	<15	23	31	36	41		
Throw	3-7-15	7-11-19	10-14-24	13-16-25	15-19-30	16-21-32	21-25-34			
2.5" Slot Width	1 Slot 10" Oval Inlet	2 Ft.	Airflow, cfm	100	145	190	235	280	325	370
			Total Pressure	0.024	0.050	0.085	0.131	0.186	0.250	0.324
			Static Pressure	0.045	0.045	0.077	0.117	0.167	0.224	0.291
			NC (Noise Criteria)	<15	<15	<15	22	29	35	40
		Throw	4-9-11	6-19-13	8-12-17	10-14-18	12-16-22	13-17-24	14-18-26	
		4 Ft.	Airflow, cfm	140	220	300	380	460	540	620
			Total Pressure	0.015	0.037	0.069	0.111	0.163	0.225	0.296
			Static Pressure	0.010	0.026	0.048	0.077	0.112	0.155	0.204
			NC (Noise Criteria)	<15	<15	<15	25	33	40	45
		Throw	5-8-17	10-14-22	12-16-25	14-17-28	16-19-31	19-22-33	21-24-35	
		5 Ft.	Airflow, cfm	150	240	330	420	510	600	690
			Total Pressure	0.013	0.034	0.063	0.103	0.151	0.209	0.277
Static Pressure	0.002		0.020	0.037	0.060	0.088	0.122	0.162		
NC (Noise Criteria)	<15		<15	<15	23	31	38	43		
Throw	3-8-16	8-12-21	12-15-25	15-18-29	17-21-32	19-23-35	21-27-38			
2.5" Slot Width	1 Slot 12" Oval Inlet	2 Ft.	Airflow, cfm	100	145	190	235	280	325	370
			Total Pressure	0.021	0.043	0.074	0.114	0.161	0.217	0.282
			Static Pressure	0.019	0.041	0.070	0.106	0.151	0.204	0.264
			NC (Noise Criteria)	<15	<15	<15	20	27	33	38
		Throw	4-9-11	6-19-13	8-12-17	10-14-18	12-16-22	13-17-24	14-18-26	
		4 Ft.	Airflow, cfm	140	225	310	395	480	565	650
			Total Pressure	0.012	0.031	0.059	0.096	0.142	0.197	0.261
			Static Pressure	0.009	0.024	0.046	0.075	0.111	0.154	0.204
			NC (Noise Criteria)	<15	<15	15	23	31	38	43
		Throw	5-8-17	10-14-22	12-16-25	14-17-29	17-20-32	20-23-34	22-26-37	
		5 Ft.	Airflow, cfm	150	250	350	450	550	650	750
			Total Pressure	0.010	0.028	0.054	0.090	0.134	0.188	0.250
Static Pressure	0.007		0.019	0.038	0.063	0.094	0.131	0.174		
NC (Noise Criteria)	<15		<15	16	26	34	40	46		
Throw	3-8-16	8-12-21	13-16-26	16-19-31	18-22-33	20-25-37	22-28-39			

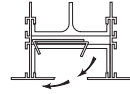
For performance table notes, see page A28.

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FLOWLINE™ LINEAR DIFFUSERS

Performance Data • Horizontal High Throw Series

Models: FLH30 and FTH30 • 1 Slot with Nailor Plenum



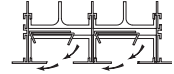
3" Slot Width	1 Slot 10" Oval Inlet	2 Ft.	Airflow, cfm	125	170	215	260	305	350	395
			Total Pressure	0.030	0.056	0.0894	0.131	0.180	0.237	0.302
Static Pressure	0.027	0.049	0.078	0.115	0.158	0.208	0.265			
NC (Noise Criteria)	<15	<15	<15	24	29	35	40			
Throw	7-11-16	9-13-19	11-15-21	13-17-23	15-18-25	16-19-28	17-20-31			
3" Slot Width	1 Slot 12" Oval Inlet	2 Ft.	Airflow, cfm	200	275	350	425	500	575	650
			Total Pressure	0.027	0.050	0.081	0.120	0.166	0.220	0.281
Static Pressure	0.017	0.032	0.052	0.076	0.106	0.140	0.179			
NC (Noise Criteria)	<15	<15	18	22	28	34	40			
Throw	8-13-20	10-15-24	15-19-27	17-21-30	18-23-32	20-24-35	21-26-37			
3" Slot Width	1 Slot 10" Oval Inlet	4 Ft.	Airflow, cfm	220	310	400	490	580	670	760
			Total Pressure	0.025	0.040	0.082	0.123	0.172	0.230	0.296
Static Pressure	0.013	0.026	0.043	0.065	0.091	0.122	0.157			
NC (Noise Criteria)	<15	<15	16	24	32	39	45			
Throw	8-12-21	12-17-25	15-20-29	18-23-32	20-24-35	21-26-37	23-28-40			
3" Slot Width	1 Slot 12" Oval Inlet	4 Ft.	Airflow, cfm	125	170	215	260	305	350	395
			Total Pressure	0.029	0.053	0.085	0.124	0.170	0.224	0.286
Static Pressure	0.026	0.049	0.078	0.115	0.158	0.208	0.265			
NC (Noise Criteria)	<15	<15	<15	18	25	31	36			
Throw	7-11-16	9-13-19	11-15-21	13-17-23	15-18-25	16-19-28	17-20-31			
3" Slot Width	1 Slot 12" Oval Inlet	5 Ft.	Airflow, cfm	200	290	380	470	560	650	740
			Total Pressure	0.022	0.047	0.081	0.123	0.175	0.236	0.306
Static Pressure	0.017	0.036	0.061	0.094	0.133	0.179	0.232			
NC (Noise Criteria)	<15	<15	<15	22	29	36	41			
Throw	8-13-20	11-16-24	15-20-28	17-22-31	20-24-34	21-26-37	23-28-40			
3" Slot Width	1 Slot 10" Oval Inlet	5 Ft.	Airflow, cfm	220	330	440	550	660	770	880
			Total Pressure	0.020	0.044	0.079	0.123	0.177	0.241	0.315
Static Pressure	0.013	0.030	0.053	0.082	0.118	0.161	0.210			
NC (Noise Criteria)	<15	<15	19	26	32	39	43			
Throw	8-12-21	11-14-26	14-16-30	17-20-34	20-25-37	22-27-39	24-29-42			

Performance Notes:

1. Data is based upon FlowLine™ with Nailor engineered plenum (uninsulated) as a complete assembly.
2. All pressures are in inches w.g..
3. Throw values are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
4. NC (Noise criteria) values are based on 10 dB room absorption, re 10⁻¹² watts.
5. Throw values are based on a 1-way air pattern. For 2-way pattern, throw is determined from the 1 slot data at half the specified air volume.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.

A
FLOWLINE™ LINEAR DIFFUSERS

Performance Data • Horizontal High Throw Series
Models: FLH/FTH (10 and 15) • 2 Slot with Nailor Plenum

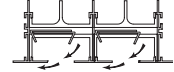


1" Slot Width	2 Slot 8" Dia. Inlet	2 Ft.	Airflow, cfm	80	120	160	200	240	280	320
			Total Pressure	0.016	0.036	0.064	0.101	0.145	0.198	0.258
			Static Pressure	0.018	0.041	0.072	0.080	0.115	0.157	0.205
			NC (Noise Criteria)	<15	<15	<15	23	29	35	40
			Throw	3-6-12	6-10-16	9-13-18	11-14-20	13-16-22	14-17-23	15-18-25
		4 Ft.	Airflow, cfm	160	230	300	370	440	510	580
			Total Pressure	0.025	0.053	0.091	0.138	0.196	0.263	0.340
			Static Pressure	0.013	0.026	0.045	0.068	0.097	0.130	0.168
			NC (Noise Criteria)	<15	<15	17	24	31	36	41
			Throw	5-8-17	8-12-21	10-16-24	13-18-26	16-20-30	17-22-32	18-24-34
		5 Ft.	Airflow, cfm	200	280	360	440	520	600	680
			Total Pressure	0.033	0.065	0.108	0.161	0.225	0.300	0.385
Static Pressure	0.013		0.025	0.041	0.062	0.087	0.115	0.148		
NC (Noise Criteria)	<15		<15	19	26	32	37	42		
Throw	5-10-20		9-14-24	12-17-26	15-20-30	17-22-33	19-24-35	22-26-38		
1" Slot Width	2 Slot 10" Dia. Inlet	2 Ft.	Airflow, cfm	80	130	180	230	280	330	380
			Total Pressure	0.014	0.038	0.073	0.119	0.176	0.244	0.324
			Static Pressure	0.013	0.034	0.065	0.106	0.157	0.218	0.289
			NC (Noise Criteria)	<15	<15	19	28	35	41	47
			Throw	3-6-13	7-11-16	10-14-19	12-15-22	13-17-24	14-18-26	15-19-28
		4 Ft.	Airflow, cfm	160	240	320	400	480	560	640
			Total Pressure	0.019	0.043	0.076	0.118	0.170	0.232	0.303
			Static Pressure	0.013	0.029	0.051	0.080	0.115	0.157	0.205
			NC (Noise Criteria)	<15	<15	18	26	33	39	44
			Throw	4-9-18	9-14-22	12-28-26	15-20-29	17-22-32	20-24-34	19-25-35
		5 Ft.	Airflow, cfm	200	295	390	485	580	675	770
			Total Pressure	0.022	0.048	0.085	0.132	0.189	0.256	0.333
Static Pressure	0.013		0.028	0.049	0.075	0.108	0.146	0.190		
NC (Noise Criteria)	<15		<15	20	28	34	40	45		
Throw	5-19-19		10-14-24	13-19-27	17-22-32	20-24-35	21-25-38	22-27-39		
1.5" Slot Width	2 Slot 8" Dia. Inlet	2 Ft.	Airflow, cfm	120	160	200	240	280	320	360
			Total Pressure	0.036	0.064	0.101	0.145	0.198	0.258	0.327
			Static Pressure	0.029	0.051	0.080	0.115	0.157	0.205	0.259
			NC (Noise Criteria)	<15	<15	19	26	32	37	41
			Throw	5-19-16	8-12-18	11-12-18	13-16-21	14-17-24	15-18-26	15-19-27
		4 Ft.	Airflow, cfm	240	310	380	450	520	590	660
			Total Pressure	0.058	0.097	0.146	0.205	0.274	0.352	0.441
			Static Pressure	0.029	0.048	0.072	0.101	0.135	0.174	0.218
			NC (Noise Criteria)	<15	<15	21	27	33	37	42
			Throw	9-14-22	12-17-25	14-20-28	16-22-31	17-23-33	19-25-35	21-26-37
		5 Ft.	Airflow, cfm	300	370	440	510	580	650	720
			Total Pressure	0.075	0.114	0.161	0.217	0.281	0.352	0.432
Static Pressure	0.029		0.044	0.062	0.083	0.108	0.135	0.166		
NC (Noise Criteria)	<15		<15	22	27	32	36	40		
Throw	10-15-25		13-19-28	15-21-30	16-22-32	18-23-33	19-24-34	21-27-38		
1.5" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, cfm	120	170	220	270	320	370	420
			Total Pressure	0.031	0.062	0.103	0.156	0.219	0.293	0.377
			Static Pressure	0.029	0.058	0.097	0.146	0.205	0.274	0.353
			NC (Noise Criteria)	<15	<15	21	29	35	40	45
			Throw	5-9-16	9-13-19	12-14-21	14-16-24	15-18-26	15-19-28	17-21-29
		4 Ft.	Airflow, cfm	240	320	400	480	560	640	720
			Total Pressure	0.037	0.065	0.102	0.146	0.199	0.260	0.329
			Static Pressure	0.029	0.051	0.080	0.115	0.157	0.205	0.259
			NC (Noise Criteria)	<15	<15	22	26	32	37	41
			Throw	9-14-22	12-18-26	15-20-29	17-22-32	18-24-33	20-26-36	22-27-39
		5 Ft.	Airflow, cfm	300	400	500	600	700	800	900
			Total Pressure	0.041	0.073	0.114	0.163	0.222	0.291	0.368
Static Pressure	0.029		0.051	0.080	0.115	0.157	0.205	0.259		
NC (Noise Criteria)	<15		<15	23	30	35	40	45		
Throw	10-15-25		14-20-29	16-22-32	19-24-35	22-27-38	23-28-41	24-30-43		

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FLOWLINE™ LINEAR DIFFUSERS

For performance table notes, see page A31.

Performance Data • Horizontal High Throw Series
Models: FLH/FTH (20 and 25) • 2 Slot with Nailor Plenum



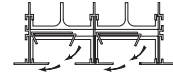
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FLOWLINE™ LINEAR DIFFUSERS

2" Slot Width	2 Slot 8" Dia. Inlet	2 Ft.	Airflow, cfm	120	165	210	255	300	345	390
			Total Pressure	0.023	0.043	0.069	0.101	0.141	0.186	0.238
			Static Pressure	0.015	0.029	0.047	0.068	0.095	0.125	0.160
			NC (Noise Criteria)	<15	<15	16	24	29	34	38
			Throw	5-8-14	7-11-16	9-14-19	11-14-21	13-16-23	14-17-24	14-18-25
		4 Ft.	Airflow, cfm	240	300	360	420	480	540	600
			Total Pressure	0.051	0.079	0.114	0.156	0.204	0.258	0.318
			Static Pressure	0.021	0.034	0.048	0.066	0.086	0.108	0.134
			NC (Noise Criteria)	<15	17	23	29	34	39	43
			Throw	6-11-20	9-14-23	11-16-24	13-19-26	14-20-29	16-22-30	18-23-32
		5 Ft.	Airflow, cfm	260	325	390	455	520	585	650
			Total Pressure	0.053	0.082	0.118	0.161	0.211	0.267	0.329
			Static Pressure	0.018	0.028	0.040	0.055	0.072	0.092	0.113
			NC (Noise Criteria)	<15	16	22	29	34	38	42
			Throw	5-11-21	8-14-23	11-16-25	13-18-28	14-21-30	16-23-32	17-23-33
2" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, cfm	120	195	270	345	420	495	570
			Total Pressure	0.009	0.024	0.046	0.075	0.111	0.155	0.205
			Static Pressure	0.007	0.020	0.039	0.063	0.094	0.130	0.172
			NC (Noise Criteria)	<15	<15	<15	22	28	35	41
			Throw	5-8-14	8-13-18	12-15-22	14-17-24	15-19-26	16-21-29	18-20-31
		4 Ft.	Airflow, cfm	240	330	420	510	600	690	780
			Total Pressure	0.019	0.037	0.060	0.088	0.122	0.161	0.206
			Static Pressure	0.013	0.026	0.042	0.062	0.086	0.113	0.145
			NC (Noise Criteria)	<15	<15	17	24	30	35	41
			Throw	6-11-20	10-15-23	13-19-26	15-21-29	18-23-32	20-24-34	21-25-36
		5 Ft.	Airflow, cfm	280	380	480	580	680	780	880
			Total Pressure	0.022	0.040	0.065	0.094	0.130	0.172	0.218
			Static Pressure	0.014	0.026	0.041	0.060	0.083	0.110	0.140
			NC (Noise Criteria)	<15	<15	18	25	31	36	41
			Throw	5-12-22	10-15-25	13-20-29	15-22-32	18-24-34	21-25-36	23-27-39
2.5" Slot Width	2 Slot 10" Dia. Inlet	2 Ft.	Airflow, cfm	80	160	240	320	400	480	560
			Total Pressure	0.005	0.019	0.043	0.078	0.122	0.175	0.238
			Static Pressure	0.003	0.014	0.032	0.057	0.088	0.127	0.173
			NC (Noise Criteria)	<15	<15	<15	18	27	35	41
			Throw	2-4-10	6-10-16	10-14-20	13-16-23	15-18-26	16-20-29	18-22-31
		4 Ft.	Airflow, cfm	160	280	400	520	640	760	880
			Total Pressure	0.011	0.034	0.070	0.118	0.178	0.251	0.336
			Static Pressure	0.005	0.018	0.036	0.061	0.092	0.130	0.174
			NC (Noise Criteria)	<15	<15	<15	22	31	38	44
			Throw	3-15-14	7-12-22	12-17-26	15-21-30	18-23-32	21-25-36	23-27-39
		5 Ft.	Airflow, cfm	200	335	470	605	740	875	1010
			Total Pressure	0.014	0.040	0.079	0.130	0.194	0.271	0.361
			Static Pressure	0.005	0.016	0.032	0.054	0.079	0.110	0.147
			NC (Noise Criteria)	<15	<15	<15	23	31	38	44
			Throw	3-5-15	7-13-23	12-18-28	15-23-32	19-25-35	23-27-29	23-29-41
2.5" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, cfm	80	170	260	350	440	530	620
			Total Pressure	0.003	0.015	0.034	0.061	0.097	0.140	0.192
			Static Pressure	0.002	0.012	0.027	0.049	0.077	0.112	0.153
			NC (Noise Criteria)	<15	<15	<15	17	27	34	41
			Throw	2-4-10	7-10-17	11-14-21	14-17-24	15-19-27	17-21-31	19-23-32
		4 Ft.	Airflow, cfm	160	295	430	595	700	835	970
			Total Pressure	0.007	0.024	0.051	0.088	0.136	0.193	0.260
			Static Pressure	0.004	0.016	0.033	0.056	0.086	0.122	0.165
			NC (Noise Criteria)	<15	<15	<15	21	29	37	43
			Throw	3-5-14	8-13-23	13-19-27	16-22-31	20-24-34	22-26-38	23-29-41
		5 Ft.	Airflow, cfm	200	350	500	650	800	950	1100
			Total Pressure	0.010	0.029	0.059	0.100	0.151	0.212	0.284
			Static Pressure	0.005	0.017	0.033	0.057	0.086	0.121	0.162
			NC (Noise Criteria)	<15	<15	<15	21	29	37	43
			Throw	3-5-15	8-14-24	13-19-29	17-23-33	21-26-37	23-28-40	25-31-43

For performance table notes, see page A31.

Performance Data • Horizontal High Throw Series

Models: FLH30 and FTH30 • 2 Slot with Nailor Plenum



3" Slot Width	2 Slot 10" Dia. Inlet	2 Ft.	Airflow, cfm	80	180	280	380	480	580	680
			Total Pressure	0.004	0.022	0.053	0.097	0.155	0.226	0.311
Static Pressure	0.003	0.015	0.036	0.067	0.106	0.156	0.214			
NC (Noise Criteria)	<15	<15	<15	17	28	36	43			
Throw	1-3-9	6-10-17	11-15-22	14-18-25	16-20-29	18-22-32	20-24-34			
3" Slot Width	2 Slot 12" Dia. Inlet	4 Ft.	Airflow, cfm	150	300	450	600	750	900	1050
			Total Pressure	0.009	0.035	0.080	0.143	0.222	0.321	0.436
Static Pressure	0.004	0.016	0.038	0.067	0.104	0.151	0.205			
NC (Noise Criteria)	<15	<15	<15	19	29	38	45			
Throw	2-4-12	6-12-23	12-18-28	16-23-32	20-25-35	23-28-39	24-30-42			
3" Slot Width	2 Slot 12" Dia. Inlet	5 Ft.	Airflow, cfm	180	350	520	690	860	1030	1200
			Total Pressure	0.011	0.042	0.092	0.162	0.251	0.360	0.489
Static Pressure	0.004	0.016	0.035	0.062	0.096	0.138	0.186			
NC (Noise Criteria)	<15	<15	<15	19	29	38	45			
Throw	2-4-13	6-13-24	13-19-30	16-24-34	21-27-38	24-30-41	26-32-45			
3" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, cfm	80	180	280	380	480	580	680
			Total Pressure	0.004	0.017	0.042	0.077	0.124	0.180	0.248
Static Pressure	0.003	0.014	0.034	0.063	0.100	0.146	0.201			
NC (Noise Criteria)	<15	<15	<15	<15	23	32	39			
Throw	1-3-9	6-10-17	11-15-22	14-18-25	16-20-29	18-22-32	20-24-34			
3" Slot Width	2 Slot 12" Dia. Inlet	4 Ft.	Airflow, cfm	150	310	470	630	790	950	1110
			Total Pressure	0.006	0.024	0.056	0.100	0.156	0.226	0.309
Static Pressure	0.003	0.014	0.033	0.059	0.093	0.135	0.184			
NC (Noise Criteria)	<15	<15	<15	23	29	35	42			
Throw	2-4-12	7-13-23	13-19-28	17-23-32	21-26-36	23-28-40	25-31-43			
3" Slot Width	2 Slot 12" Dia. Inlet	5 Ft.	Airflow, cfm	180	360	540	720	900	1080	1260
			Total Pressure	0.007	0.027	0.060	0.108	0.169	0.244	0.331
Static Pressure	0.003	0.014	0.031	0.056	0.087	0.126	0.170			
NC (Noise Criteria)	<15	<15	16	24	30	35	42			
Throw	2-4-13	6-13-24	13-19-30	17-24-35	22-28-39	24-30-42	26-32-46			

Performance Notes:

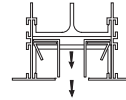
1. Data is based upon FlowLine™ with Nailor engineered plenum (uninsulated) as a complete assembly.
2. All pressures are in inches w.g..
3. Throw values are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
4. NC (Noise criteria) values are based on 10 dB room absorption, re 10⁻¹² watts.
5. Throw values are based on a 1-way air pattern. For 2-way pattern, throw is determined from the 1 slot data at half the specified air volume.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.

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FLOWLINE™ LINEAR DIFFUSERS

Performance Data • Vertical Jet Throw Series

Models: FLV (10, 15, 20, 25 and 30) • Continuous Pressurized Plenum



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FLOWLINE™ LINEAR DIFFUSERS

Slot Width	Slots	Airflow, cfm/ft.	20	40	60	80	100	120	140
		Static Pressure	0.005	0.018	0.041	0.074	0.114	0.164	0.223
NC (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	0.005	0.024	0.056	0.102	0.161	0.234	0.320
NC (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	0.005	0.020	0.045	0.080	0.125	0.180	0.245
NC (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	0.006	0.023	0.052	0.093	0.145	0.209	0.285
NC (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	0.004	0.019	0.044	0.080	0.126	0.183	0.251
NC (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	0.005	0.022	0.051	0.092	0.146	0.212	0.291
NC (Noise Criteria)	<15	19	25	29	34	39	44		
Throw	2-3-13	0.7-14-30	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	0.004	0.020	0.050	0.094	0.151	0.222	0.306
NC (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	0.004	0.023	0.058	0.108	0.174	0.256	0.353
NC (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	0.004	0.021	0.052	0.097	0.155	0.226	0.312
NC (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	0.005	0.025	0.060	0.112	0.179	0.261	0.360
NC (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

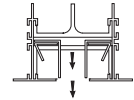
Length (ft.)	2	4	6	8	10	12
Multiplier	0.80	1.00	1.20	1.30	1.40	1.50

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.
- NC (Noise criteria) values are based on 10 dB room absorption, re 10⁻¹² 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 70-1991.

Performance Data • Vertical Jet Throw Series

Models: FLV/FTV (10 and 15) • 1 Slot with Nailor Plenum



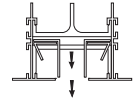
Slot Width	Inlet	Height	Airflow, cfm	50	95	140	185	230	275	320
			1"	1 Slot 8" Dia. Inlet	2 Ft.	Total Pressure	0.010	0.033	0.073	0.127
Static Pressure	0.007	0.029				0.062	0.109	0.168	0.241	0.325
NC (Noise Criteria)	<15	<15				17	26	33	39	44
Throw	2-3-10	7-9-19				9-14-24	12-19-28	15-22-31	18-24-34	21-26-36
Airflow, cfm	100	175				250	325	400	475	550
4 Ft.	Total Pressure	0.018			0.056	0.113	0.190	0.289	0.408	0.547
	Static Pressure	0.013			0.039	0.079	0.133	0.201	0.285	0.381
	NC (Noise Criteria)	<15			<15	20	29	35	41	46
	Throw	2-4-13			6-11-23	11-17-30	14-21-34	18-26-37	21-29-41	24-31-44
	Airflow, cfm	110			195	280	365	450	535	620
5 Ft.	Total Pressure	0.019			0.060	0.124	0.212	0.322	0.455	0.611
	Static Pressure	0.013			0.040	0.081	0.139	0.211	0.297	0.400
	NC (Noise Criteria)	<15			<15	21	30	36	42	47
	Throw	1-3-12			6-11-22	10-17-31	14-21-35	18-25-39	21-30-42	23-32-45
	1"	1 Slot 10" Oval Inlet			2 Ft.	Total Pressure	0.006	0.022	0.049	0.087
Static Pressure			0.005	0.020		0.045	0.079	0.122	0.174	0.236
NC (Noise Criteria)			<15	<15		15	23	30	35	40
Throw			2-3-10	7-9-19		9-14-24	12-19-28	15-22-31	18-24-34	21-26-36
Airflow, cfm			100	180		260	340	420	500	580
4 Ft.			Total Pressure	0.011	0.036	0.075	0.128	0.196	0.278	0.373
			Static Pressure	0.009	0.029	0.060	0.103	0.156	0.221	0.299
			NC (Noise Criteria)	<15	<15	17	24	31	37	42
			Throw	2-4-13	7-12-23	11-17-30	14-22-34	18-28-39	22-30-42	25-32-45
			Airflow, cfm	110	210	310	410	510	610	710
5 Ft.			Total Pressure	0.011	0.040	0.087	0.152	0.235	0.337	0.456
			Static Pressure	0.009	0.030	0.065	0.114	0.177	0.256	0.342
			NC (Noise Criteria)	<15	<15	17	26	33	39	44
			Throw	1-3-12	6-12-24	12-18-32	15-23-37	20-29-41	23-32-45	28-34-48
			1"	1 Slot 12" Oval Inlet	2 Ft.	Total Pressure	0.004	0.017	0.037	0.064
Static Pressure	0.004	0.016				0.035	0.061	0.094	0.135	0.182
NC (Noise Criteria)	<15	<15				<15	20	27	32	37
Throw	2-3-10	7-9-19				9-14-24	12-19-28	15-22-31	18-24-34	21-26-36
Airflow, cfm	100	190				280	370	460	550	640
4 Ft.	Total Pressure	0.009			0.032	0.068	0.120	0.185	0.264	0.358
	Static Pressure	0.007			0.028	0.060	0.105	0.163	0.232	0.315
	NC (Noise Criteria)	<15			<15	18	26	33	38	43
	Throw	2-4-13			7-12-24	12-18-31	17-24-36	20-29-41	24-31-44	28-33-47
	Airflow, cfm	110			220	330	440	550	660	770
5 Ft.	Total Pressure	0.007			0.016	0.035	0.061	0.094	0.135	0.182
	Static Pressure	0.006			0.026	0.057	0.101	0.157	0.227	0.308
	NC (Noise Criteria)	<15			<15	17	24	31	37	42
	Throw	1-3-12			7-12-25	12-19-33	17-25-39	21-31-43	25-33-47	30-36-51
	1.5"	1 Slot 8" Dia. Inlet			2 Ft.	Total Pressure	0.009	0.029	0.060	0.104
Static Pressure			0.006	0.021		0.046	0.079	0.122	0.173	0.234
NC (Noise Criteria)			<15	<15		<15	20	27	33	38
Throw			1-2-9	4-9-18		9-12-24	11-17-29	13-20-32	17-24-34	19-26-37
Airflow, cfm			60	110		160	210	260	310	360
4 Ft.			Total Pressure	0.020	0.057	0.111	0.184	0.276	0.385	0.513
			Static Pressure	0.013	0.035	0.068	0.113	0.170	0.236	0.316
			NC (Noise Criteria)	<15	<15	19	27	33	39	43
			Throw	1-3-12	3-9-21	8-14-29	12-19-34	15-23-37	18-26-41	21-31-44
			Airflow, cfm	120	200	280	360	440	520	600
5 Ft.			Total Pressure	0.026	0.062	0.116	0.186	0.272	0.376	0.494
			Static Pressure	0.015	0.035	0.066	0.107	0.156	0.215	0.285
			NC (Noise Criteria)	<15	<15	19	26	32	38	42
			Throw	1-3-12	3-8-20	6-13-28	10-18-34	14-21-37	17-24-41	19-29-43
			Airflow, cfm	140	220	300	380	460	540	620

For performance table notes, see page A35.

A
FLOWLINE™ LINEAR DIFFUSERS

Performance Data • Vertical Jet Throw Series

Models: FLV/FTV (15 and 20) • 1 Slot with Nailor Plenum



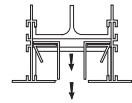
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FLOWLINE™ LINEAR DIFFUSERS

Slot Width	Inlet Type	Height	Airflow, cfm							
			60	125	190	255	320	385	450	
1.5" Slot Width	1 Slot 10" Oval Inlet	2 Ft.	Airflow, cfm	60	125	190	255	320	385	450
			Total Pressure	0.005	0.025	0.057	0.103	0.163	0.235	0.321
			Static Pressure	0.005	0.021	0.049	0.089	0.139	0.201	0.275
			NC (Noise Criteria)	<15	<15	<15	23	30	36	41
			Throw	1-2-9	6-10-20	10-14-26	13-20-31	17-24-35	20-28-39	23-30-39
		Airflow, cfm	120	240	360	480	600	720	840	
	4 Ft.	Total Pressure	0.012	0.045	0.102	0.181	0.281	0.406	0.552	
		Static Pressure	0.009	0.032	0.073	0.128	0.201	0.290	0.394	
		NC (Noise Criteria)	<15	<15	19	28	35	41	46	
		Throw	1-3-12	6-12-24	12-19-34	17-24-40	21-31-44	24-34-48	29-36-52	
		Airflow, cfm	140	280	420	560	700	840	980	
	5 Ft.	Total Pressure	0.014	0.054	0.121	0.215	0.336	0.484	0.659	
		Static Pressure	0.009	0.036	0.081	0.144	0.226	0.325	0.443	
		NC (Noise Criteria)	<15	<15	21	30	37	43	48	
		Throw	1-3-12	6-12-25	12-19-35	17-25-41	21-32-46	25-35-51	30-39-54	
Airflow, cfm		60	125	190	255	320	385	450		
1.5" Slot Width	1 Slot 12" Oval Inlet	2 Ft.	Total Pressure	0.004	0.019	0.044	0.078	0.123	0.179	0.244
			Static Pressure	0.004	0.017	0.040	0.072	0.112	0.163	0.221
			NC (Noise Criteria)	<15	<15	<15	20	28	34	39
			Throw	1-2-9	6-10-20	10-14-26	13-20-31	17-24-35	20-28-39	23-30-42
			Airflow, cfm	120	240	360	480	600	720	840
		4 Ft.	Total Pressure	0.007	0.031	0.070	0.123	0.192	0.276	0.376
	Static Pressure		0.006	0.025	0.055	0.097	0.153	0.220	0.300	
	NC (Noise Criteria)		<15	<15	16	24	31	37	42	
	Throw		1-3-12	6-12-24	12-19-34	17-24-40	21-31-44	24-34-48	29-36-52	
	Airflow, cfm		140	280	420	560	700	840	980	
	5 Ft.	Total Pressure	0.009	0.035	0.079	0.141	0.220	0.318	0.432	
		Static Pressure	0.006	0.027	0.060	0.107	0.168	0.242	0.328	
		NC (Noise Criteria)	<15	<15	16	25	32	38	43	
		Throw	1-3-12	6-12-15	12-19-35	17-25-41	21-32-46	25-35-51	30-39-54	
		Airflow, cfm	70	140	210	280	350	420	490	
2" Slot Width	1 Slot 8" Dia. Inlet	2 Ft.	Total Pressure	0.010	0.036	0.082	0.146	0.228	0.328	0.447
			Static Pressure	0.006	0.026	0.058	0.103	0.161	0.232	0.316
			NC (Noise Criteria)	<15	<15	16	24	32	38	42
			Throw	1-2-7	3-7-14	7-11-21	9-14-25	12-18-27	14-21-30	17-23-32
			Airflow, cfm	140	220	300	380	460	540	620
		4 Ft.	Total Pressure	0.025	0.060	0.111	0.178	0.261	0.360	0.474
	Static Pressure		0.014	0.033	0.062	0.098	0.144	0.200	0.263	
	NC (Noise Criteria)		<15	<15	18	25	31	37	41	
	Throw		1-2-8	3-5-14	4-9-20	7-13-26	9-15-29	12-18-31	14-21-33	
	Airflow, cfm		150	250	350	450	550	650	750	
	5 Ft.	Total Pressure	0.026	0.071	0.138	0.227	0.339	0.474	0.631	
		Static Pressure	0.013	0.036	0.071	0.117	0.174	0.243	0.323	
		NC (Noise Criteria)	<15	<15	21	29	35	41	45	
		Throw	1-2-6	2-4-14	3-9-20	6-14-26	9-16-31	13-20-33	14-22-36	
		Airflow, cfm	70	150	230	310	390	470	550	
2" Slot Width	1 Slot 10" Oval Inlet	2 Ft.	Total Pressure	0.005	0.027	0.062	0.112	0.179	0.259	0.354
			Static Pressure	0.004	0.021	0.050	0.091	0.144	0.210	0.287
			NC (Noise Criteria)	<15	<15	<15	23	30	36	41
			Throw	1-2-7	3-8-15	8-12-22	10-16-26	14-20-29	16-22-31	19-24-34
			Airflow, cfm	140	265	390	515	640	765	890
		4 Ft.	Total Pressure	0.013	0.047	0.103	0.179	0.276	0.394	0.534
	Static Pressure		0.009	0.031	0.068	0.119	0.184	0.263	0.356	
	NC (Noise Criteria)		<15	<15	18	27	34	40	45	
	Throw		1-2-8	3-7-18	7-13-26	12-17-31	14-21-34	17-26-37	20-28-40	
	Airflow, cfm		150	300	450	600	750	900	1050	
	5 Ft.	Total Pressure	0.013	0.054	0.122	0.212	0.331	0.477	0.649	
		Static Pressure	0.009	0.033	0.074	0.132	0.205	0.295	0.401	
		NC (Noise Criteria)	<15	<15	20	29	36	42	47	
		Throw	1-2-6	3-6-18	6-14-26	11-18-31	14-22-36	18-26-39	20-30-42	

For performance table notes, see page A35.

Performance Data • Vertical Jet Throw Series

Models: FLV/FTV (20, 25 and 30) • 1 Slot with Nailor Plenum



Slot Width	Inlet	Height	Airflow, cfm	70	160	250	340	430	520	610
			2"	1 Slot 12" Oval Inlet	2 Ft.	Total Pressure	0.004	0.022	0.055	0.102
Static Pressure	0.004	0.019				0.048	0.089	0.141	0.208	0.286
NC (Noise Criteria)	<15	<15				<15	23	30	37	42
Throw	1-2-7	4-9-16				9-13-23	12-17-27	14-21-30	18-24-33	20-26-36
Airflow, cfm	140	290				440	590	740	890	1040
Total Pressure	0.009	0.035			0.082	0.148	0.232	0.335	0.458	
Static Pressure	0.006	0.027			0.061	0.109	0.172	0.249	0.340	
NC (Noise Criteria)	<15	<15			16	26	33	39	44	
Throw	1-2-8	3-9-20			9-14-28	14-20-32	16-25-37	20-28-40	23-31-43	
5 Ft.	Airflow, cfm	150		330	510	690	870	1050	1230	
	Total Pressure	0.009		0.040	0.096	0.175	0.279	0.406	0.557	
	Static Pressure	0.005		0.028	0.067	0.124	0.197	0.289	0.394	
	NC (Noise Criteria)	<15		<15	18	28	35	41	46	
	Throw	1-2-6		3-8-20	8-15-29	14-20-34	17-26-38	20-30-42	25-32-46	
	2.5"	1 Slot 12" Oval Inlet		2 Ft.	Airflow, cfm	80	190	300	410	520
Total Pressure			0.004		0.025	0.061	0.114	0.185	0.271	0.375
Static Pressure			0.003		0.020	0.051	0.096	0.155	0.228	0.315
NC (Noise Criteria)			<15		<15	<15	24	31	38	43
Throw			1-2-6		4-9-17	9-14-25	12-19-29	15-23-32	19-26-36	22-27-38
4 Ft.			Airflow, cfm	150	335	520	705	890	1075	1260
			Total Pressure	0.009	0.042	0.100	0.183	0.292	0.426	0.584
			Static Pressure	0.005	0.029	0.071	0.129	0.207	0.301	0.413
			NC (Noise Criteria)	<15	<15	19	28	36	42	47
		Throw	1-2-6	3-8-20	9-15-30	14-21-35	18-26-39	21-30-43	25-32-46	
		5 Ft.	Airflow, cfm	160	370	580	790	1000	1210	1420
Total Pressure			0.009	0.044	0.108	0.200	0.320	0.469	0.646	
Static Pressure			0.005	0.029	0.072	0.133	0.212	0.310	0.428	
NC (Noise Criteria)			<15	<15	19	29	37	43	48	
Throw			1-1-5	3-7-20	7-15-31	14-20-36	17-26-40	21-31-44	25-34-48	
3"	1 Slot 14" Oval Inlet		2 Ft.	Airflow, cfm	100	225	350	475	600	725
		Total Pressure		0.004	0.022	0.055	0.102	0.162	0.236	0.325
		Static Pressure		0.004	0.020	0.048	0.088	0.141	0.205	0.282
		NC (Noise Criteria)		<15	<15	<15	22	30	36	41
		Throw		1-2-7	4-9-18	9-14-26	13-20-31	16-24-34	20-26-37	23-29-40
		4 Ft.	Airflow, cfm	200	400	600	800	1000	1200	1400
			Total Pressure	0.010	0.036	0.082	0.146	0.228	0.328	0.446
			Static Pressure	0.006	0.027	0.061	0.108	0.169	0.244	0.333
			NC (Noise Criteria)	<15	<15	<15	26	33	39	44
	Throw		1-2-8	3-8-21	8-16-31	14-21-36	18-26-40	21-31-44	25-33-48	
	5 Ft.		Airflow, cfm	240	460	680	900	1120	1340	1560
		Total Pressure	0.012	0.042	0.091	0.159	0.247	0.354	0.480	
		Static Pressure	0.007	0.030	0.064	0.112	0.174	0.249	0.338	
		NC (Noise Criteria)	<15	<15	18	27	34	49	44	
		Throw	1-2-8	3-8-21	7-16-32	13-21-37	18-26-42	21-31-45	25-35-48	

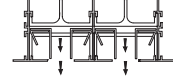
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FLOWLINE™ LINEAR DIFFUSERS

Performance Notes:

- Data is based upon FlowLine™ with Nailor engineered plenum (uninsulated) as a complete assembly.
- All pressures are in inches w.g..
- Throw values are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- NC (Noise criteria) values are based on 10 dB room absorption, re 10⁻¹² watts.
- Throw values are based on pattern controller set 100% open.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.

Performance Data • Vertical Jet Throw Series
Models: FLV /FTV (10 and 15) • 2 Slot with Nailor Plenum



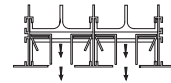
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FLOWLINE™ LINEAR DIFFUSERS

Slot Width	Inlet Dia.	Height	Performance Data															
			Airflow, cfm	Total Pressure	Static Pressure	NC (Noise Criteria)	Throw	Airflow, cfm	Total Pressure	Static Pressure	NC (Noise Criteria)	Throw						
1" Slot Width	2 Slot 8" Dia. Inlet	2 Ft.	Airflow, cfm	80	155	230	305	380	455	530	Airflow, cfm	80	155	230	305	380	455	530
			Total Pressure	0.012	0.045	0.098	0.173	0.269	0.385	0.523	Total Pressure	0.012	0.045	0.098	0.173	0.269	0.385	0.523
			Static Pressure	0.009	0.032	0.070	0.122	0.189	0.272	0.369	Static Pressure	0.009	0.032	0.070	0.122	0.189	0.272	0.369
			NC (Noise Criteria)	<15	<15	18	27	34	40	45	NC (Noise Criteria)	<15	<15	18	27	34	40	45
			Throw	2-4-13	7-12-23	12-19-29	12-23-33	21-26-36	23-29-40	25-31-43	Throw	2-4-13	7-12-23	12-19-29	12-23-33	21-26-36	23-29-40	25-31-43
		Airflow, cfm	160	260	360	460	560	660	760	Airflow, cfm	160	260	360	460	560	660	760	
	4 Ft.	Total Pressure	0.031	0.083	0.159	0.261	0.386	0.537	0.712	Total Pressure	0.031	0.083	0.159	0.261	0.386	0.537	0.712	
		Static Pressure	0.017	0.046	0.089	0.144	0.215	0.299	0.396	Static Pressure	0.017	0.046	0.089	0.144	0.215	0.299	0.396	
		NC (Noise Criteria)	<15	<15	24	31	38	43	48	NC (Noise Criteria)	<15	<15	24	31	38	43	48	
		Throw	2-4-17	6-12-28	10-29-33	17-24-37	20-29-41	23-31-44	26-34-47	Throw	2-4-17	6-12-28	10-29-33	17-24-37	20-29-41	23-31-44	26-34-47	
		Airflow, cfm	200	300	400	500	600	700	800	Airflow, cfm	200	300	400	500	600	700	800	
	5 Ft.	Total Pressure	0.045	0.101	0.180	0.280	0.404	0.550	0.718	Total Pressure	0.045	0.101	0.180	0.280	0.404	0.550	0.718	
		Static Pressure	0.022	0.051	0.092	0.143	0.207	0.281	0.368	Static Pressure	0.022	0.051	0.092	0.143	0.207	0.281	0.368	
		NC (Noise Criteria)	<15	<15	25	32	38	43	47	NC (Noise Criteria)	<15	<15	25	32	38	43	47	
		Throw	2-4-19	4-11-19	9-19-34	13-23-37	19-29-41	22-32-44	25-34-47	Throw	2-4-19	4-11-19	9-19-34	13-23-37	19-29-41	22-32-44	25-34-47	
Airflow, cfm		80	165	250	335	420	505	590	Airflow, cfm	80	165	250	335	420	505	590		
1" Slot Width	2 Slot 10" Dia. Inlet	2 Ft.	Total Pressure	0.006	0.029	0.067	0.121	0.190	0.275	0.376	Total Pressure	0.006	0.029	0.067	0.121	0.190	0.275	0.376
			Static Pressure	0.005	0.024	0.054	0.096	0.151	0.217	0.297	Static Pressure	0.005	0.024	0.054	0.096	0.151	0.217	0.297
			NC (Noise Criteria)	<15	<15	<15	23	31	37	42	NC (Noise Criteria)	<15	<15	<15	23	31	37	42
			Throw	2-4-13	8-13-24	13-20-30	18-24-34	22-28-39	24-30-42	26-32-46	Throw	2-4-13	8-13-24	13-20-30	18-24-34	22-28-39	24-30-42	26-32-46
			Airflow, cfm	160	300	440	580	720	860	1000	Airflow, cfm	160	300	440	580	720	860	1000
		4 Ft.	Total Pressure	0.016	0.057	0.122	0.212	0.326	0.464	0.628	Total Pressure	0.016	0.057	0.122	0.212	0.326	0.464	0.628
	Static Pressure		0.011	0.036	0.078	0.136	0.210	0.299	0.404	Static Pressure	0.011	0.036	0.078	0.136	0.210	0.299	0.404	
	NC (Noise Criteria)		<15	<15	20	29	36	42	47	NC (Noise Criteria)	<15	<15	20	29	36	42	47	
	Throw		2-4-17	7-15-30	15-23-36	21-30-42	25-33-46	30-35-51	32-39-55	Throw	2-4-17	7-15-30	15-23-36	21-30-42	25-33-46	30-35-51	32-39-55	
	Airflow, cfm		200	350	500	650	800	950	1100	Airflow, cfm	200	350	500	650	800	950	1100	
	5 Ft.	Total Pressure	0.022	0.068	0.140	0.238	0.360	0.506	0.679	Total Pressure	0.022	0.068	0.140	0.238	0.360	0.506	0.679	
		Static Pressure	0.014	0.042	0.085	0.142	0.215	0.304	0.408	Static Pressure	0.014	0.042	0.085	0.142	0.215	0.304	0.408	
		NC (Noise Criteria)	<15	<15	22	31	37	43	47	NC (Noise Criteria)	<15	<15	22	31	37	43	47	
		Throw	2-4-19	7-14-32	13-23-37	20-31-43	25-43-47	30-36-52	32-40-56	Throw	2-4-19	7-14-32	13-23-37	20-31-43	25-43-47	30-36-52	32-40-56	
		Airflow, cfm	80	170	260	350	440	530	620	Airflow, cfm	80	170	260	350	440	530	620	
1" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Total Pressure	0.004	0.021	0.049	0.090	0.142	0.207	0.282	Total Pressure	0.004	0.021	0.049	0.090	0.142	0.207	0.282
			Static Pressure	0.004	0.018	0.043	0.077	0.122	0.177	0.242	Static Pressure	0.004	0.018	0.043	0.077	0.122	0.177	0.242
			NC (Noise Criteria)	<15	<15	<15	21	28	34	39	NC (Noise Criteria)	<15	<15	<15	21	28	34	39
			Throw	2-4-13	8-13-24	14-21-31	19-25-35	23-28-40	25-31-43	28-33-47	Throw	2-4-13	8-13-24	14-21-31	19-25-35	23-28-40	25-31-43	28-33-47
			Airflow, cfm	160	320	480	640	800	960	1120	Airflow, cfm	160	320	480	640	800	960	1120
		4 Ft.	Total Pressure	0.010	0.036	0.082	0.147	0.229	0.330	0.448	Total Pressure	0.010	0.036	0.082	0.147	0.229	0.330	0.448
	Static Pressure		0.006	0.026	0.058	0.102	0.159	0.229	0.312	Static Pressure	0.006	0.026	0.058	0.102	0.159	0.229	0.312	
	NC (Noise Criteria)		<15	<15	<15	24	32	37	42	NC (Noise Criteria)	<15	<15	<15	24	32	37	42	
	Throw		2-4-17	8-17-31	17-25-37	23-31-44	29-34-48	31-37-54	33-41-57	Throw	2-4-17	8-17-31	17-25-37	23-31-44	29-34-48	31-37-54	33-41-57	
	Airflow, cfm		200	375	550	725	900	1075	1250	Airflow, cfm	200	375	550	725	900	1075	1250	
	5 Ft.	Total Pressure	0.013	0.044	0.095	0.165	0.255	0.363	0.490	Total Pressure	0.013	0.044	0.095	0.165	0.255	0.363	0.490	
		Static Pressure	0.009	0.029	0.062	0.108	0.167	0.238	0.321	Static Pressure	0.009	0.029	0.062	0.108	0.167	0.238	0.321	
		NC (Noise Criteria)	<15	<15	17	26	33	38	43	NC (Noise Criteria)	<15	<15	17	26	33	38	43	
		Throw	2-4-19	8-17-33	17-25-40	23-32-45	29-35-51	32-39-55	34-42-59	Throw	2-4-19	8-17-33	17-25-40	23-32-45	29-35-51	32-39-55	34-42-59	
		Airflow, cfm	120	210	300	390	480	570	660	Airflow, cfm	120	210	300	390	480	570	660	
1.5" Slot Width	2 Slot 10" Dia. Inlet	2 Ft.	Total Pressure	0.011	0.033	0.068	0.116	0.175	0.248	0.333	Total Pressure	0.011	0.033	0.068	0.116	0.175	0.248	0.333
			Static Pressure	0.007	0.024	0.048	0.082	0.124	0.175	0.234	Static Pressure	0.007	0.024	0.048	0.082	0.124	0.175	0.234
			NC (Noise Criteria)	<15	<15	<15	21	27	33	38	NC (Noise Criteria)	<15	<15	<15	21	27	33	38
			Throw	2-4-15	6-13-26	12-19-31	17-25-35	21-28-40	24-31-43	26-33-46	Throw	2-4-15	6-13-26	12-19-31	17-25-35	21-28-40	24-31-43	26-33-46
			Airflow, cfm	240	340	440	540	640	740	840	Airflow, cfm	240	340	440	540	640	740	840
		4 Ft.	Total Pressure	0.029	0.059	0.097	0.148	0.207	0.276	0.356	Total Pressure	0.029	0.059	0.097	0.148	0.207	0.276	0.356
	Static Pressure		0.016	0.032	0.055	0.082	0.114	0.154	0.198	Static Pressure	0.016	0.032	0.055	0.082	0.114	0.154	0.198	
	NC (Noise Criteria)		<15	<15	<15	22	28	32	37	NC (Noise Criteria)	<15	<15	<15	22	28	32	37	
	Throw		2-6-20	4-10-29	8-17-34	11-23-39	15-26-42	21-31-45	23-34-47	Throw	2-6-20	4-10-29	8-17-34	11-23-39	15-26-42	21-31-45	23-34-47	
	Airflow, cfm		260	365	470	575	680	785	890	Airflow, cfm	260	365	470	575	680	785	890	
	5 Ft.	Total Pressure	0.031	0.061	0.102	0.152	0.213	0.284	0.365	Total Pressure	0.031	0.061	0.102	0.152	0.213	0.284	0.365	
		Static Pressure	0.016	0.031	0.052	0.078	0.109	0.146	0.187	Static Pressure	0.016	0.031	0.052	0.078	0.109	0.146	0.187	
		NC (Noise Criteria)	<15	<15	<15	22	28	32	36	NC (Noise Criteria)	<15	<15	<15	22	28	32	36	
		Throw	2-4-17	3-8-28	6-13-35	9-20-39	12-25-42	17-30-45	21-33-47	Throw	2-4-17	3-8-28	6-13-35	9-20-39	12-25-42	17-30-45	21-33-47	
		Airflow, cfm	120	210	300	390	480	570	660	Airflow, cfm	120	210	300	390	480	570	660	

For performance table notes, see page A38.

Performance Data • Vertical Jet Throw Series

Models: FLV/FTV (15 and 20) • 2 Slot with Nailor Plenum



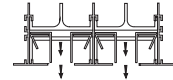
1.5" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, cfm	120	230	340	450	560	670	780
			Total Pressure	0.006	0.025	0.054	0.094	0.146	0.209	0.284
			Static Pressure	0.005	0.019	0.042	0.073	0.112	0.161	0.217
			NC (Noise Criteria)	<15	<15	<15	19	26	32	36
			Throw	2-4-15	8-14-28	14-22-33	19-26-39	24-30-43	26-33-46	29-35-40
		4 Ft.	Airflow, cfm	240	390	540	690	840	990	1140
			Total Pressure	0.016	0.043	0.082	0.134	0.199	0.276	0.366
			Static Pressure	0.010	0.027	0.050	0.082	0.122	0.170	0.225
			NC (Noise Criteria)	<15	<15	<15	22	28	33	38
			Throw	2-6-20	6-13-32	17-25-37	23-31-44	29-34-48	31-37-54	33-41-57
		5 Ft.	Airflow, cfm	260	425	590	755	920	1085	1250
			Total Pressure	0.017	0.046	0.089	0.144	0.215	0.300	0.397
			Static Pressure	0.010	0.027	0.051	0.083	0.124	0.172	0.228
			NC (Noise Criteria)	<15	<15	<15	22	29	34	39
			Throw	2-4-17	4-11-32	9-21-39	15-29-44	22-34-48	26-37-53	31-40-56
1.5" Slot Width	2 Slot 14" Dia. Inlet	2 Ft.	Airflow, cfm	120	240	360	480	600	720	840
			Total Pressure	0.005	0.018	0.042	0.074	0.116	0.167	0.227
			Static Pressure	0.004	0.015	0.034	0.061	0.094	0.136	0.185
			NC (Noise Criteria)	<15	<15	<15	<15	23	29	34
			Throw	2-4-15	8-15-28	15-23-34	21-28-40	25-31-44	28-34-48	30-36-52
		4 Ft.	Airflow, cfm	240	415	590	765	940	1115	1290
			Total Pressure	0.010	0.030	0.060	0.101	0.152	0.214	0.287
			Static Pressure	0.006	0.019	0.040	0.066	0.101	0.141	0.189
			NC (Noise Criteria)	<15	<15	<15	18	24	30	35
			Throw	2-6-20	7-15-33	13-25-40	22-32-45	26-35-51	31-39-55	34-42-55
		5 Ft.	Airflow, cfm	260	440	620	800	980	1160	1340
			Total Pressure	0.011	0.032	0.063	0.105	0.157	0.220	0.293
			Static Pressure	0.007	0.020	0.041	0.067	0.101	0.141	0.188
			NC (Noise Criteria)	<15	<15	<15	18	25	30	35
			Throw	2-4-17	6-12-33	10-23-40	17-30-45	24-35-51	29-39-55	33-42-58
2" Slot Width	2 Slot 10" Dia. Inlet	2 Ft.	Airflow, cfm	70	140	210	280	350	420	490
			Total Pressure	0.003	0.013	0.028	0.050	0.078	0.112	0.154
			Static Pressure	0.062	0.009	0.018	0.032	0.051	0.073	0.100
			NC (Noise Criteria)	<15	<15	<15	<15	<15	19	24
			Throw	0-1-3	1-3-11	3-6-18	5-11-22	8-14-25	11-18-27	14-20-30
		4 Ft.	Airflow, cfm	250	355	460	565	670	775	880
			Total Pressure	0.028	0.057	0.095	0.143	0.201	0.270	0.348
			Static Pressure	0.014	0.028	0.047	0.072	0.101	0.135	0.174
			NC (Noise Criteria)	<15	<15	<15	21	27	31	35
			Throw	1-3-10	3-5-20	4-9-26	6-13-29	9-19-31	11-21-34	14-25-37
		5 Ft.	Airflow, cfm	280	390	500	610	720	830	940
			Total Pressure	0.032	0.061	0.101	0.150	0.210	0.278	0.357
			Static Pressure	0.014	0.027	0.045	0.067	0.093	0.128	0.158
			NC (Noise Criteria)	<15	<15	<15	21	27	31	35
			Throw	1-3-9	2-4-17	3-7-25	4-10-30	7-14-32	9-20-34	11-23-37
2" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, cfm	140	275	410	545	680	815	950
			Total Pressure	0.007	0.028	0.062	0.109	0.170	0.244	0.332
			Static Pressure	0.005	0.019	0.044	0.077	0.120	0.172	0.234
			NC (Noise Criteria)	<15	<15	<15	20	27	33	38
			Throw	1-3-11	5-11-22	11-17-27	15-22-31	19-25-35	22-27-38	24-27-38
		4 Ft.	Airflow, cfm	250	425	600	775	950	1125	1300
			Total Pressure	0.015	0.044	0.088	0.147	0.219	0.308	0.412
			Static Pressure	0.008	0.024	0.049	0.081	0.122	0.171	0.229
			NC (Noise Criteria)	<15	<15	<15	22	29	34	39
			Throw	1-3-10	3-8-24	7-14-30	11-21-34	16-26-37	20-29-41	24-31-44
		5 Ft.	Airflow, cfm	280	460	640	820	1000	1180	1360
			Total Pressure	0.017	0.047	0.091	0.149	0.221	0.309	0.410
			Static Pressure	0.008	0.024	0.047	0.076	0.113	0.158	0.210
			NC (Noise Criteria)	<15	<15	<15	22	28	34	38
			Throw	1-3-9	3-6-22	5-12-31	9-19-34	13-25-37	18-29-41	22-31-44

A
FLOWLINE™ LINEAR DIFFUSERS

For performance table notes, see page A38.

Performance Data • Vertical Jet Throw Series

Models: FLV/FTV (20, 25 and 30) • 2 Slot with Nailor Plenum



A

FLOWLINE™ LINEAR DIFFUSERS

Slot Width	Inlet	Height	Airflow, cfm	140	280	420	560	700	840	980
			Total Pressure	0.004	0.018	0.041	0.073	0.114	0.165	0.225
Static Pressure	0.003	0.014	0.031	0.055	0.086	0.123	0.168			
NC (Noise Criteria)	<15	<15	<15	<15	21	27	32			
Throw	1-3-11	5-11-22	11-18-27	15-22-31	20-25-36	22-27-39	24-30-42			
2"	2 Slot 14" Dia. Inlet	4 Ft.	Airflow, cfm	250	450	650	850	1050	1250	1450
			Total Pressure	0.010	0.030	0.062	0.106	0.161	0.228	0.307
Static Pressure	0.005	0.018	0.037	0.063	0.096	0.137	0.184			
NC (Noise Criteria)	<15	<15	<15	18	24	30	35			
Throw	1-3-10	3-9-25	8-17-31	13-24-36	20-28-40	23-31-43	26-33-47			
5 Ft.	2 Slot 14" Dia. Inlet	5 Ft.	Airflow, cfm	280	480	680	880	1080	1280	1480
			Total Pressure	0.011	0.030	0.061	0.102	0.153	0.215	0.288
Static Pressure	0.005	0.017	0.034	0.057	0.086	0.120	0.159			
NC (Noise Criteria)	<15	<15	<15	16	23	28	33			
Throw	1-3-10	3-8-28	7-15-37	11-25-42	17-31-46	24-26-50	28-38-54			
2.5"	2 Slot 14" Dia. Inlet	2 Ft.	Airflow, cfm	150	335	520	705	890	1075	1260
			Total Pressure	0.004	0.022	0.054	0.098	0.157	0.229	0.315
Static Pressure	0.003	0.016	0.037	0.070	0.111	0.162	0.223			
NC (Noise Criteria)	<15	<15	<15	18	26	32	37			
Throw	1-3-9	5-11-24	12-20-30	17-25-35	22-27-39	25-31-43	26-32-46			
4 Ft.	2 Slot 14" Dia. Inlet	4 Ft.	Airflow, cfm	300	540	780	1020	1260	1500	1740
			Total Pressure	0.012	0.039	0.080	0.137	0.209	0.295	0.398
Static Pressure	0.006	0.021	0.044	0.076	0.116	0.164	0.220			
NC (Noise Criteria)	<15	<15	<15	21	28	33	38			
Throw	1-3-10	3-9-26	8-17-33	13-25-38	20-30-43	25-32-46	28-35-50			
5 Ft.	2 Slot 14" Dia. Inlet	5 Ft.	Airflow, cfm	350	600	850	1100	1350	1600	1850
			Total Pressure	0.015	0.043	0.087	0.144	0.218	0.306	0.410
Static Pressure	0.007	0.022	0.044	0.074	0.111	0.157	0.210			
NC (Noise Criteria)	<15	<15	<15	22	28	34	38			
Throw	1-3-9	3-7-26	6-14-34	10-23-38	15-29-43	22-33-47	26-36-50			
3"	2 Slot 14" Dia. Inlet	2 Ft.	Airflow, cfm	175	385	595	805	1015	1225	1435
			Total Pressure	0.005	0.026	0.062	0.113	0.181	0.263	0.361
Static Pressure	0.003	0.017	0.042	0.076	0.120	0.175	0.241			
NC (Noise Criteria)	<15	<15	<15	20	27	33	38			
Throw	1-3-9	5-10-25	11-20-31	18-26-37	22-29-41	26-31-44	28-34-18			
4 Ft.	2 Slot 14" Dia. Inlet	4 Ft.	Airflow, cfm	320	580	840	1100	1360	1620	1880
			Total Pressure	0.013	0.042	0.087	0.149	0.227	0.322	0.433
Static Pressure	0.006	0.021	0.045	0.078	0.119	0.168	0.227			
NC (Noise Criteria)	<15	<15	<15	22	27	34	39			
Throw	1-2-9	3-7-26	7-14-34	11-24-39	17-30-43	24-33-47	27-36-51			
5 Ft.	2 Slot 14" Dia. Inlet	5 Ft.	Airflow, cfm	380	645	910	1175	1440	1705	1970
			Total Pressure	0.016	0.045	0.090	0.149	0.224	0.314	0.419
Static Pressure	0.007	0.020	0.041	0.068	0.103	0.144	0.193			
NC (Noise Criteria)	<15	<15	<15	21	28	33	38			
Throw	1-2-9	3-6-23	5-12-34	9-20-39	13-28-43	18-33-47	24-36-50			

Performance Notes:

- Data is based upon FlowLine™ with Nailor engineered plenum (uninsulated) as a complete assembly.
- All pressures are in inches w.g..
- Throw values are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- NC (Noise criteria) values are based on 10 dB room absorption, re 10⁻¹² watts.
- Throw values are based on pattern controller set 100% open.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.