

Linear Diffusers

Performance Data – LD – 0°



CEILING, SIDEWALL APPLICATION

NECK VELOCITY: Fpm based on core area. **THROW** and **DROP:** Feet.

PRESS.: Total pressure in inches of water.

Nom. Width	cfm Ft.	20	30	40	50	60	80	100	125	150	200	250	300
1½"	Velocity	336	504	672	840	1008	1344	1680					
	Throw	5-5-6	8-10-12	10-14-18	13-19-23	15-22-28	18-29-37	21-35-44					
	Press.	0.016	0.036	0.063	0.100	0.142	0.252	0.394					
2"	Velocity	200	305	404	504	604	809	1008	1260	1512			
	Throw	3-4-5	6-7-8	8-11-12	10-15-16	12-18-20	15-24-27	18-30-33	21-36-41	24-41-49			
	Press.	0.007	0.016	0.028	0.044	0.063	0.113	0.176	0.275	0.399			
2½"	Velocity		215	289	362	431	578	719	898	1082	1439		
	Throw		5-6-7	7-9-10	8-12-13	10-15-16	13-20-23	16-25-28	19-30-36	22-36-42	27-45-53		
	Press.		0.009	0.016	0.025	0.036	0.063	0.099	0.154	0.221	0.399		
3"	Velocity			226	278	336	446	562	698	840	1124	1397	
	Throw			6-8-10	7-11-13	9-14-15	12-18-20	14-22-25	17-27-30	19-31-36	24-39-47	28-47-56	
	Press.			.011	.016	.023	.040	.063	.100	.142	.252	.394	
3½"	Velocity				231	273	368	457	572	688	919	1145	1376
	Throw				7-11-12	8-13-14	11-18-19	13-21-23	16-25-28	18-29-34	22-37-43	27-44-53	30-51-61
	Press.				.011	.016	.017	.044	.068	.098	.173	.268	.389
4"	Velocity					231	310	389	483	583	777	966	1166
	Throw					7-12-14	10-15-18	12-19-22	15-23-27	17-26-32	21-33-41	24-40-50	28-45-58
	Press.					.013	.021	.034	.048	.072	.128	.198	.290
DROP		2.0-3.0-3.5	2.5-4.0-5.0	3.0-5.0-6.5	3.0-5.5-7.5	3.5-6.0-7.5	3.5-6.5-8.0	3.5-7.0-9.0	4.0-8-9.5	4.5-8.5-11	5.0-9.5-13	5.5-10.5-14	6.0-11-15

NOTE: Throw and Drop values are for 1', 5', and 10' lengths respectively and are based on a Temperature Differential of 20° F.

Linear Diffusers Performance Data – LD – 15°

CEILING, SIDEWALL APPLICATION

NECK VELOCITY: Fpm based on core area. **THROW** and **DROP:** Feet.

PRESS.: Total pressure in inches of water.

Nom. Width	cfm Ft.	20	30	40	50	60	80	100	125	150	200	250	300
1½"	Velocity	336	504	672	840	1008	1344	1680					
	Throw	6-6-7	9-11-13	11-17-19	14-21-25	16-25-31	20-32-42	23-38-50					
	Press.	.020	.045	.080	.124	.179	.315	.499					
	Rise	4-1-0	.6-1.2	.7-1.5	.7-1.7	.8-1.9	1.0-2.2	1.1-2.5					
	Drop	1-1.5-2.5	1-2-2.5	1-2-3	1-2-3	1-2-3	1-2-3	1-2-2.5					
2"	Velocity	200	305	404	504	604	809	1008	1260	1512			
	Throw	4-5-5	7-9-9	9-12-13	11-16-18	13-19-22	16-25-30	19-30-37	23-36-44	25-42-50			
	Press.	.008	.018	.033	.051	.074	.131	.205	.320	.462			
	Rise	4-9	.5-1.1	.6-1.3	.7-1.5	.7-1.6	.9-2.0	1.0-2.2	1.2-2.6	1.3-2.9			
	Drop	1-2-3	1.5-2.5-3	1.5-3-3.5	1.5-3-3.5	1.5-3-3.5	1-3-3.5	1-2.5-3.5	1-2.5-3.5	1-2.5-3.5			
2½"	Velocity		215	289	362	431	578	719	898	1082	1439		
	Throw		5-7-8	7-10-11	9-13-14	10-16-17	13-21-23	16-25-29	19-30-37	22-35-44	27-44-54		
	Press.		.011	.018	.028	.040	.072	.112	.176	.252	.446		
	Rise		.5-1.0	.5-1.2	.6-1.4	.7-1.5	.8-1.8	.9-2.1	1.1-2.4	1.2-2.7	1.4-3.2		
	Drop		1.5-3.5-4.5	1.5-3.5-5	1.5-3.5-5	1.5-3.5-5	1.5-3.5-5	1.5-3.5-5	1.5-3-5	1.5-3-4.5	1.5-3-4		
3"	Velocity			226	278	336	446	562	698	840	1124	1397	
	Throw			6-9-10	7-11-13	9-14-15	12-19-21	14-22-25	17-27-31	20-31-37	25-39-46	29-46-54	
	Press.			.012	.018	.025	.045	.071	.111	.163	.284	.446	
	Rise			.5-1.1	.6-1.3	.7-1.5	.8-1.7	.9-2.0	1.0-2.3	1.1-2.5	1.3-3.0	1.5-3.4	
	Drop			2-4-5.5	2-4-6	2-4-6	2-4-6	1.5-4-6	1.5-4-6	1.5-3.5-6	1.5-3.5-5	1.5-3-5	
3½"	Velocity				231	273	368	457	572	688	919	1145	1376
	Throw				7-10-12	8-13-14	10-17-19	13-20-24	15-24-29	18-28-34	22-36-44	26-42-52	30-49-58
	Press.				.013	.018	.032	.048	.076	.109	.193	.299	.436
	Rise				.6-1.3	.6-1.4	.7-1.7	.8-1.9	1.0-2.2	1.1-2.4	1.3-2.9	1.5-3.3	1.6-3.7
	Drop				2-5-7	2-5-7	2-5-7	2-5-7	2-4-5-7	2-4-5-7	2-4-6	1.5-4-5.5	1.5-3.5-5
4"	Velocity					231	310	389	483	583	777	966	1166
	Throw					8-11-14	10-15-18	12-19-22	14-23-27	17-26-32	21-34-41	25-40-48	28-47-55
	Press.					.014	.024	.038	.059	.084	.149	.233	.336
	Rise					.6-1.3	.7-1.6	.8-1.8	.9-2.1	1.0-2.3	1.2-2.7	1.4-3.1	1.6-3.5
	Drop					2.5-5.5-8	2.5-5.5-8	2.5-5.5-8	2.5-5-8	2.5-5-8	2-4-5-7	2-4-0-6	1.5-4-0-5.5

NOTE: Throw and Drop values are for 1', 5', and 10' lengths respectively and are based on a Temperature Differential of 20° F.