

# Linear Diffusers

## Performance Data – FD – 0°



### FLOOR and SILL 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, 20° TD	4-2	7-6	8-11	9-17	10-22	13-28	14-32					
	Throw, 0° TD	5-16	7-20	9-24	10-28	11-32	14-38	16-43					
	Press.	0.016	0.036	0.063	0.100	0.142	0.252	0.394					
2"	Velocity		305	404	504	604	809	1008	1260	1512			
	Throw, 20° TD		4-3	6-6	8-10	9-14	12-22	13-28	15-32	17-36			
	Throw, 0° TD		6-18	8-22	9-25	10-28	12-33	14-38	15-44	17-49			
	Press.		0.016	0.028	0.044	0.063	0.113	0.176	0.275	0.399			
2½"	Velocity			289	362	431	578	719	898	1082	1439		
	Throw, 20° TD			4-3	6-5	7-8	10-15	12-21	14-28	16-33	19-40		
	Throw, 0° TD			7-20	8-23	9-26	11-31	13-36	15-41	17-46	20-55		
	Press.			0.016	0.025	0.036	0.063	0.099	0.154	0.221	0.399		
3"	Velocity				278	336	446	562	698	840	1124	1330	
	Throw, 20° TD				4-3	6-5	8-10	10-16	13-23	14-29	18-37	20-42	
	Throw, 0° TD				8-21	9-24	11-28	12-32	15-37	16-42	20-50	23-58	
	Press.				.016	.023	.040	.063	.100	.142	.252	.394	
3½"	Velocity					273	368	457	572	688	919	1145	1376
	Throw, 20° TD					5-4	7-8	9-13	12-19	14-25	16-34	19-40	21-45
	Throw, 0° TD					9-23	11-28	13-32	15-36	16-40	19-48	22-55	25-62
	Press.					.016	.017	.044	.068	.098	.173	.268	.389
4"	Velocity					231	310	389	483	583	777	966	1166
	Throw, 20° TD					4-3	5-6	8-10	11-16	13-21	16-31	18-38	20-43
	Throw, 0° TD					9-22	11-26	13-30	15-34	16-38	19-46	22-53	25-59
	Press.					.013	.021	.034	.048	.072	.128	.198	.290

NOTE: Throw Values are for 1' and 10' lengths respectively

# Linear Diffusers Performance Data – FD – 15°

### FLOOR and SILL 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, 20° TD	4-2	7-6	8-11	9-17	10-22	13-28	14-32					
	Throw, 0° TD	5-16	7-20	9-24	10-28	11-32	14-38	16-43					
	Press.	.020	.045	.080	.124	.179	.315	.499					
2"	Velocity		305	404	504	604	809	1008	1260	1512			
	Throw, 20° TD		4-3	6-6	8-10	9-14	12-22	13-28	15-32	17-36			
	Throw, 0° TD		6-18	8-22	9-25	10-28	12-33	14-38	15-44	17-49			
	Press.		.018	.033	.051	.074	.131	.205	.320	.462			
2½"	Velocity			289	362	431	578	719	898	1082	1439		
	Throw, 20° TD			4-3	6-5	7-8	10-15	12-21	14-28	16-33	19-40		
	Throw, 0° TD			7-20	8-23	9-26	11-31	13-36	15-41	17-46	20-55		
	Press.			.018	.028	.040	.072	.112	.176	.252	.446		
3"	Velocity				278	336	446	562	698	840	1124	397	
	Throw, 20° TD				4-3	6-5	8-10	10-16	13-23	14-29	18-37	20-42	
	Throw, 0° TD				8-21	9-24	11-28	12-32	15-37	16-42	20-50	23-58	
	Press.				.018	.025	.045	.071	.111	.163	.284	.446	
3½"	Velocity					273	368	457	572	688	919	1145	1376
	Throw, 20° TD					5-4	7-8	9-13	12-19	14-25	16-34	19-40	21-45
	Throw, 0° TD					9-23	11-28	13-32	15-36	16-40	19-42	22-55	25-62
	Press.					.018	.032	.048	.076	.109	.193	.299	.436
4"	Velocity					231	310	389	483	583	777	966	1166
	Throw, 20° TD					4-3	5-6	8-10	11-16	13-21	16-31	18-38	20-43
	Throw, 0° TD					9-22	11-26	13-30	15-34	16-38	19-46	22-53	25-59
	Press.					.014	.024	.038	.059	.084	.149	.233	.336

NOTE: Throw Values are for 1' and 10' lengths respectively.