

## MODEL: ALS LINEAR SLOT DIFFUSER

### 1 SLOT SUPPLY

	CFM/Ft.	8	17	26	35	44	53	
		1/2" SLOT	Ps	.008	.042	.112	.213	.338
		NC	(20)	20	31	39	46	50
		Throw	4	9	14	19	23	28
	CFM/Ft.	10	20	30	40	50	60	
		3/4" SLOT	Ps	.004	.039	.075	.127	.190
		NC	(20)	(20)	25	32	37	45
		Throw	3	10	18	25	30	34
	CFM/Ft.	10	22	34	46	58	70	
		1" SLOT	Ps	.002	.020	.048	.094	.147
		NC	(20)	(20)	20	28	34	40
		Throw	6	12	20	26	30	35

### 2 SLOT SUPPLY

	CFM/Ft.	12	30	48	66	84	102	
		1/2" SLOT	Ps	.007	.036	.102	.205	.330
		NC	(20)	21	32	41	48	53
		Throw	6	14	21	25	28	31
	CFM/Ft.	20	40	60	80	100	120	
		3/4" SLOT	Ps	.007	.037	.083	.147	.230
		NC	(20)	(20)	26	33	41	48
		Throw	10	23	31	38	43	47
	CFM/Ft.	20	44	68	92	116	140	
		1" SLOT	Ps	.004	.029	.072	.127	.206
		NC	(20)	(20)	23	33	39	45
		Throw	10	23	33	41	46	51

### 3 SLOT SUPPLY

	CFM/Ft.	20	45	70	95	120	145	
		1/2" SLOT	Ps	.007	.042	.107	.204	.320
		NC	(20)	22	34	42	48	54
		Throw	9	16	22	27	31	33
	CFM/Ft.	25	55	85	115	145	175	
		3/4" SLOT	Ps	.007	.031	.080	.143	.232
		NC	(20)	(20)	25	34	43	49
		Throw	10	25	34	42	48	51
	CFM/Ft.	30	65	100	135	170	205	
		1" SLOT	Ps	.006	.032	.077	.138	.216
		NC	(20)	(20)	24	35	43	48
		Throw	12	25	35	42	48	52

### 4 SLOT SUPPLY

	CFM/Ft.	25	59	93	127	161	195	
		1/2" SLOT	Ps	.012	.056	.125	.231	.359
		NC	(20)	23	35	44	50	54
		Throw	10	18	24	29	33	36
	CFM/Ft.	30	65	100	135	170	205	
		3/4" SLOT	Ps	.007	.032	.068	.127	.195
		NC	(20)	(20)	23	33	41	48
		Throw	13	28	39	47	53	56
	CFM/Ft.	40	80	120	160	200	240	
		1" SLOT	Ps	.008	.032	.072	.126	.198
		NC	(20)	(20)	23	35	44	49
		Throw	14	23	31	40	48	55

### ALSR RETURN PERFORMANCE DATA

	CFM/Ft.	1 SLOT					2 SLOT					3 SLOT					4 SLOT							
		10	20	30	40	50	CFM/Ft.	20	40	60	80	100	CFM/Ft.	30	60	90	120	150	CFM/Ft.	40	80	120	160	200
1/2" SLOT	-Ps	.010	.051	.120	.205	.300	-Ps	.010	.051	.120	.205	.300	-Ps	.010	.051	.120	.205	.300	-Ps	.010	.051	.120	.205	.300
	NC	(20)	(20)	23	31	36	NC	(20)	(20)	25	33	38	NC	(20)	(20)	27	35	40	NC	(20)	20	28	36	41
3/4" SLOT	CFM/Ft.	10	25	40	55	70	CFM/Ft.	20	50	80	110	140	CFM/Ft.	30	75	120	165	210	CFM/Ft.	40	100	160	220	280
	-Ps	.008	.045	.115	.222	.270	-Ps	.008	.045	.115	.222	.270	-Ps	.008	.045	.115	.222	.270	-Ps	.008	.045	.115	.222	.270
	NC	(20)	(20)	23	32	38	NC	(20)	(20)	25	34	40	NC	(20)	(20)	27	36	42	NC	(20)	(20)	28	37	43
1" SLOT	CFM/Ft.	20	35	50	65	80	CFM/Ft.	40	70	100	130	160	CFM/Ft.	60	105	150	195	240	CFM/Ft.	80	140	200	260	320
	-Ps	.020	.058	.116	.202	.302	-Ps	.020	.058	.116	.202	.302	-Ps	.020	.058	.116	.202	.302	-Ps	.020	.058	.116	.202	.302
	NC	(20)	(20)	23	29	35	NC	(20)	(20)	25	31	37	NC	(20)	(20)	27	33	39	NC	(20)	(20)	28	34	40

### LENGTH FACTORS

Diffuser Length	2	4	6	8	10
Throw Multiplier	.9	1.0	1.1	1.2	1.3
NC Adjustment	-3	0	+2	+3	+4

- Ps – Static pressure in inches of water with horizontal throw.
- Throw – Horizontal distances in feet to a terminal velocity of 50 FPM. Throw values are based on 1-way pattern. For divided air flow, refer to data from another model based on proportional CFM and number of slots throwing one direction.
- NC - Noise criteria based on db room absorption.
- Throw and NC values are based on 4 ft. lengths. For other lengths, refer to length factors above.

FORMERLY MODEL LD-S