

**MODEL: ALS
LINEAR SLOT DIFFUSER**
1 SLOT SUPPLY

1/2" SLOT	CFM/FL	8	17	26	35	44	53
	Ps	.008	.042	.112	.213	.338	.506
NC	(20)	20	31	39	46	50	
Throw		4	9	14	19	23	26
3/4" SLOT	CFM/FL	10	20	30	40	50	60
	Ps	.004	.039	.075	.127	.190	.277
NC	(20)	(20)	25	32	37	45	
Throw		3	10	18	25	30	34
1" SLOT	CFM/FL	10	22	34	46	58	70
	Ps	.002	.020	.048	.094	.147	.214
NC	(20)	(20)	20	28	34	40	
Throw		6	12	20	26	30	35

2 SLOT SUPPLY

1/2" SLOT	CFM/FL	12	30	48	66	84	102
	Ps	.007	.038	.102	.205	.330	.498
NC	(20)	21	32	41	48	53	
Throw		6	14	21	25	28	31
3/4" SLOT	CFM/FL	20	40	60	80	100	120
	Ps	.007	.037	.083	.147	.230	.325
NC	(20)	(20)	26	33	41	48	
Throw		10	23	31	38	43	47
1" SLOT	CFM/FL	20	44	68	92	116	140
	Ps	.004	.029	.072	.127	.206	.293
NC	(20)	(20)	23	33	39	45	
Throw		10	23	33	41	46	51

3 SLOT SUPPLY

1/2" SLOT	CFM/FL	20	45	70	95	120	145
	Ps	.007	.042	.107	.204	.320	.470
NC	(20)	22	34	42	48	54	
Throw		9	16	22	27	31	33
3/4" SLOT	CFM/FL	25	55	85	115	145	175
	Ps	.007	.031	.080	.143	.232	.338
NC	(20)	(20)	25	34	43	49	
Throw		10	25	34	42	48	51
1" SLOT	CFM/FL	30	65	100	135	170	205
	Ps	.006	.032	.077	.138	.216	.322
NC	(20)	(20)	24	35	43	48	
Throw		12	25	35	42	48	52

4 SLOT SUPPLY

1/2" SLOT	CFM/FL	25	59	93	127	161	195
	Ps	.012	.056	.125	.231	.359	.528
NC	(20)	23	35	44	50	54	
Throw		10	18	24	29	33	36
3/4" SLOT	CFM/FL	30	65	100	135	170	205
	Ps	.007	.032	.068	.127	.195	.292
NC	(20)	(20)	23	33	41	48	
Throw		13	28	39	47	53	56
1" SLOT	CFM/FL	40	80	120	160	200	240
	Ps	.008	.032	.072	.126	.198	.281
NC	(20)	(20)	23	35	44	49	
Throw		14	23	31	40	48	55

ALSR RETURN PERFORMANCE DATA

1/2" SLOT	1 SLOT					2 SLOT					3 SLOT					4 SLOT							
	CFM/FL	10	20	30	40	50	CFM/FL	20	40	60	80	100	CFM/FL	30	60	90	120	150	CFM/FL	40	80	120	160
-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
-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
-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