

DLI-PDR MODEL

EXTRUDED ALUMINUM SUPPLY LINEAR DIFFUSER 3/4", 1/2" & 1" SLOT FOR ROUND DUCT INSTALL



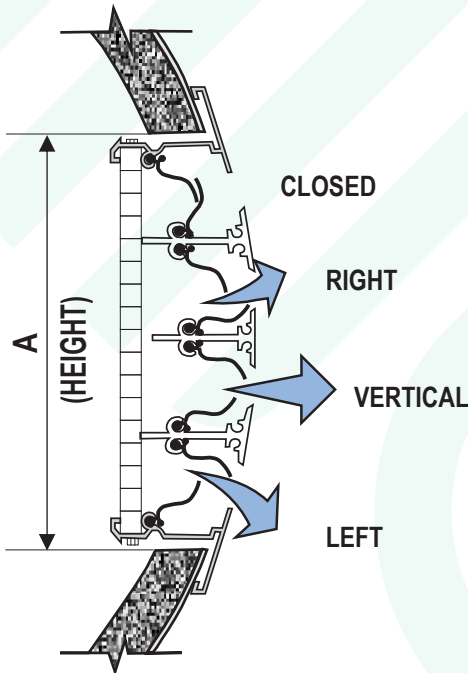
- Ideal for installation in exposed ductwork, it can be used in both single and double wall.
- Available with 1 to 4 slots and a maximum length 48 "(4 feet) for 6" to 30 "ducts of 1/2", 3/4" and 1 " diameter openings and slots; not requires neck extension.
- Integrated aluminum grid for equalization of the air flow.
- Its adjustable blades, which provides a horizontal or vertical flow pattern.
- These blades control the air flow pattern, the volume and pressure drop.

CONSTRUCTION: Extruded aluminum, lengths up to 9 feet in a single section piece.

FINISH: Standard white Anodic acrylic paint. Blades and separators painted in black matte. Other colors available.

PERFORMANCE: Its high induction differential temperatures (cooling) from 20 to 25°F, with a low air velocity in the room of 35 Feet / min.

Dimensional Data



DETAIL OF ADJUSTMENT BLADES OF AIR FLOW PATTERN

DUCT DIAMETER	NUMBER OF SLOTS											
	1			2			3			4		
8	1/2"	3/4"	1"	1/2"	3/4"		1/2"			1/2"		
10	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"		1/2"		
12	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"		
14	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	
16	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"
18	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"
20	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"	1/2"	3/4"	1"

NUMBER OF SLOTS	INSTALLATION DIMENSIONS (HEIGHT)		
	1/2" SLOT	3/4" SLOT	1" SLOT
1	A	A	A
2	1 5/8"	1 7/8"	2 1/8"
3	2 7/8"	3 3/8"	3 7/8"
4	4 1/8"	4 7/8"	5 5/8"
	5 3/4"	6 3/8"	7 3/8"

EXTRUDED ALUMINUM SUPPLY LINEAR DIFFUSER 3/4", 1/2" & 1" SLOT FOR ROUND DUCT INSTALL

TABLE 1 - 1/2" SLOT PERFORMANCE DATA-NON-DUCTED

QTY. OF SLOTS Outlet Area/ Sq.feet	OUTLET VELOCITY (Vκ)	175	250	325	425	500	575	675	750
		TOTAL PRESSURE (TP)	0.005	0.008	0.018	0.032	0.051	0.070	0.080
1 AREA/FT = 0.04	CFM / Feet	7	10	13	17	20	23	27	30
	HORIZONTAL THROW - FEET	7-4-2	11-6-4	15-7-5	19-9-6	22-11-7	26-13-9	30-15-10	33-17-11
	NC	—	10	13	15	17	19	21	22
2 AREA/FT = 0.083	CFM / Feet	14	21	27	35	42	48	56	62
	HORIZONTAL THROW - FEET	6-3-2	9-5-3	13-6-4	17-8-6	20-10-7	24-12-8	28-14-9	31-16-10
	NC	—	6	10	16	18	20	22	23
3 AREA/FT = 0.125	CFM / Feet	22	31	40	53	63	72	84	94
	HORIZONTAL THROW - FEET	5-3-2	10-5-3	14-7-5	18-9-6	22-11-7	26-13-9	30-15-10	34-17-11
	NC	—	8	11	14	18	20	32	25
4 AREA/FT = 0.166	CFM / Feet	29	42	54	70	83	95	1	
	HORIZONTAL THROW - FEET	6-3-2	10-5-3	15-8-3	20-10-7	24-12-8	29-14-10	31-17-11	38-19-13
	NC	—	9	12	16	19	20	22	27

TABLE 2 - 3/4" SLOT PERFORMANCE DATA

QTY. OF SLOTS Outlet Area/ Sq.feet	OUTLET VELOCITY (Vκ)	175	250	325	425	500	575	675	750
		TOTAL PRESSURE (TP)	0.007	0.012	0.027	0.048	0.075	0.091	0.108
1 AREA/FT = 0.063	CFM / Feet	11	16	20	27	32	36	43	47
	HORIZONTAL THROW - FEET	6-3-2	9-5-3	12-6-4	15-8-5	18-9-6	22-11-7	25-12-8	28-14-9
	NC	—	10	13	15	19	21	25	30
2 AREA/FT = 0.125	CFM / Feet	22	31	40	53	63	72	84	94
	HORIZONTAL THROW - FEET	5-2-2	8-4-3	11-5-4	14-7-5	17-8-6	20-10-7	23-12-8	26-13-9
	NC	—	7	10	16	19	26	32	35
3 AREA/FT = 0.187	CFM / Feet	33	47	61	79	94	107	126	140
	HORIZONTAL THROW - FEET	5-2-2	8-4-3	11-6-4	15-7-5	18-9-6	22-11-7	25-12-8	28-14-9
	NC	—	9	11	18	23	28	33	37
4 AREA/FT = 0.250	CFM / Feet	44	63	81	106	125	144	169	188
	HORIZONTAL THROW - FEET	5-2-2	9-4-3	13-6-4	16-8-5	20-10-7	24-12-8	28-14-9	32-16-11
	NC	—	10	12	22	25	29	33	37

EXTRUDED ALUMINUM SUPPLY LINEAR DIFFUSER 3/4", 1/2" & 1" SLOT FOR ROUND DUCT INSTALL

TABLE 3 - 1" SLOT PERFORMANCE DATA - NON DUCTED

QTY. OF SLOTS Outlet Area/ Sq.foot	OUTLET VELOCITY (V _K)	175	250	325	425	500	575	675	750
	TOTAL PRESSURE (TP)	0.017	0.024	0.035	0.048	0.098	0.120	0.165	0.220
1 AREA/FT = 0.083	CFM / Feet	15	21	27	35	42	48	56	62
	HORIZONTAL THROW - FEET	5-2-2	7-4-2	10-5-3	12-6-4	15-7-5	17-9-6	20-10-7	22-11-7
	NC	—	15	19	22	25	31	37	41
2 AREA/FT = 0.166	CFM / Feet	29	42	54	71	83	95	112	126
	HORIZONTAL THROW - FEET	4-2-1	6-3-2	9-4-3	11-6-4	14-7-5	16-8-5	19-9-6	21-10-7
	NC	—	15	20	23	30	33	39	42
3 AREA/FT = 0.250	CFM / Feet	44	63	81	106	125	144	169	187
	HORIZONTAL THROW - FEET	4-2-1	6-3-2	9-5-3	12-6-4	15-7-5	17-9-6	20-10-7	23-11-8
	NC	15	18	22	25	32	34	40	43
4 AREA/FT = 0.330	CFM / Feet	58	83	107	140	165	190	223	248
	HORIZONTAL THROW - FEET	4-2-1	7-3-2	10-5-3	13-7-4	16-8-5	19-10-8	22-11-7	25-13-8
	NC	16	19	23	26	33	36	42	44

NOTES:

1.- Engineering Units:

Airflow rate = cfm / linear foot

Static pressure = inches of water column

Throw = ft. at 50, 100 and 150 fpm terminal velocity

2.- Noise Criteria is based on 10 dB room absorption (Re12 watts) evaluated at 125 through 4000 Hz octave bands.

3.- Throw data are based on a horizontal discharge in one direction only. For 2-way discharge pattern, the throw is determined from the published engineering data based on the number of slots and cfm/linear ft. discharging in each direction.

4.- Throw data are for 4-foot active diffuser lengths, throw may be determined by applying the following multiplication factors:

Diffuser Length-feet	Multiplication factor
1	0.50
2	0.85
3	0.95
4	1.00

5.- Sound data are for 4-foot active diffuser lengths, add or deduct the following values to or from the reported NC level:

Diffuser Length (feet)	NC Correction
1	-2
2	-2
3	-1
4	0