

PERFORMANCE DATA - MODEL LSDTZ

LINEAR SLOT DIFFUSERS - TECHZONE - 3/4" SLOT - CFM PER LINEAR FOOT

Slots	Static Pressure	Horizontal Vertical	0.011	0.024	0.042	0.066	0.095	0.129	0.168	0.213	0.263	0.318
			.007	.014	.025	.040	.057	.077	.101	.128	.158	.191
1	CFMLF		10	15	20	25	30	35	40	45	50	55
	Horizontal Throw		1-2-6	2-4-14	3-6-22	4-10-24	6-14-27	9-19-29	11-22-31	14-26-33	18-24-35	20-26-36
	Vertical Throw		2	6	10	12	13	14	15	16	17	18
	Horizontal NC		<15	<15	<15	15	19	23	25	28	31	33
	Vertical NC		<15	<15	<15	<15	<15	<15	<15	16	19	21
2	CFMLF		20	30	40	50	60	70	80	90	100	110
	Horizontal Throw		1-3-10	3-6-22	5-10-29	7-16-35	10-22-38	14-26-41	19-29-44	22-33-46	25-35-49	27-36-51
	Vertical Throw		4	8	14	17	18	20	21	23	24	25
	Horizontal NC		<15	<15	<15	18	22	26	28	31	34	36
	Vertical NC		<15	<15	<15	<15	<15	<15	16	19	22	24
3	CFMLF		30	45	60	75	90	105	120	135	150	165
	Horizontal Throw		1-3-13	3-7-27	6-13-36	9-20-41	13-27-44	17-32-48	23-36-51	27-39-54	30-41-57	33-43-60
	Vertical Throw		4	10	17	21	23	24	26	28	29	31
	Horizontal NC		<15	<15	<15	20	24	28	30	33	35	37
	Vertical NC		<15	<15	<15	<15	<15	16	18	21	23	25

PERFORMANCE NOTES FOR SERIES LSDTZ

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

- On units without UP plenums, pressure drop reported is across the diffuser element only
The field supply plenum pressure drop should be included when determining system fan requirements
A good approximation of the static pressure requirements can be calculated by adding the velocity pressure through the plenum inlet to the diffuser section pressure drop
- NC is based on a 4 ft. section of diffuser
The following table should be used to calculate sound levels for lengths other than 4 ft.
- To correct throws for lengths other than the 4 ft. lengths used in determining catalog performance, throws should be adjusted per the following table

NC Correction for Length			
Length (feet)	2	4	6
NC Correction	-2	0	2
Throw Correction Multiplier for Length			
Length (feet)	2	4	8
Throw Correction	-7	1	1.2

- All pressures are in inches of water
- Isothermal throws are given for terminal velocities of 150, 100 and 50fpm, based upon 4' section
- Vertical throw values are based on a 50fpm terminal velocity
- For Vertical supply subtract one NC
- For Returns minus pattern controllers, deduct 12 NC
- Throw values are based on a 1-Way discharge from the slot. For 2-Way discharge, throw is based upon the number and size of the slots throwing in each direction, with the total supply air flow split equally between all slots in the unit
- Data was collected in accordance to ASHRAE standard 70-2006 Method of Testing for rating the performance of air outlets and inlets