

LMD Laminar Ceiling Diffuser



ASLI LMD is a type of diffuser that generates low velocity, evenly distributed, downward moving of conditioned air to protect patient from contaminated air by isolating them from residual air.

Materials

LMD-A

Housing : 1.2mm aluminium sheet
 Perforated face : 1.2mm perforated aluminium sheet
 Side bracket : 2mm extruded aluminium

LMD-T

Housing : 0.8mm galvanized steel
 Perforated face : 1.0mm perforated galvanized steel
 Side bracket : 2mm extruded aluminium

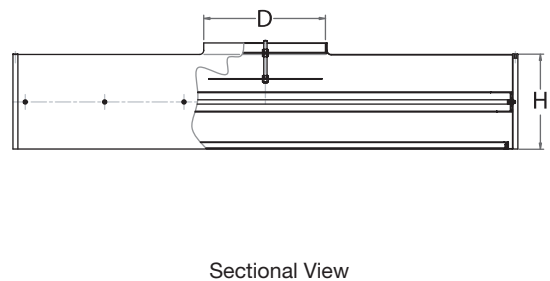
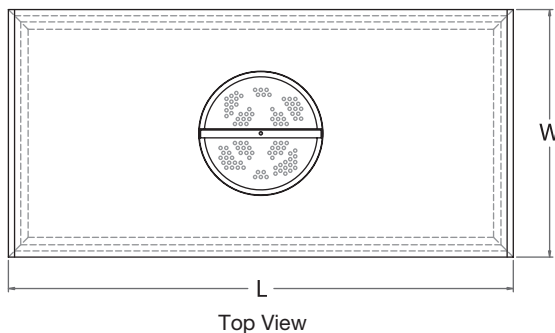
Surface Finish

White powder coated, oven baked as standard.

Features

- Laminar Diffuser (LMD) generates a low velocity, evenly distributed, downward moving of supply air.
- Ideal for cleanroom or hospital operating room application.
- Custom designed based on customer requirement.
- Perforated face is removable.
- Optional HEPA filter.

LMD Physical Dimension *Unit : mm*



L	W	H	D
1200	600	230	250

LMD Laminar Diffuser

LMD Performance Data

250 mm Round Neck		Air Flow Rate (CMH)	622	694	767	853	925	998	1156	1229	1489
L(mm)	W(mm)										
1220	610	Total Pressure (mmAq)	1.1	1.3	1.6	2.0	2.3	2.7	3.7	4.1	6.1
		NC	19	22	25	28	31	33	38	40	45
		Vertical Throw (m)	0.6	0.6	0.9	1.2	1.5	1.5	1.8	2.1	2.7
			1.5	1.8	1.8	2.1	2.4	2.4	2.7	3.0	3.7
			1.8	2.1	2.4	2.7	2.7	3.0	3.4	3.7	4.3
1524	610	Total Pressure (mmAq)	1.1	1.3	1.6	2.0	2.3	2.7	3.7	4.0	6.1
		NC	1.8	21	24	27	30	32	37	39	44
		Vertical Throw (m)	0.6	0.6	0.9	1.2	1.5	1.5	1.8	2.1	2.7
			1.5	1.8	1.8	2.1	2.4	2.4	2.7	3.0	3.7
			1.8	2.1	2.4	2.7	2.7	3.0	3.4	3.7	4.3
1830	610	Total Pressure (mmAq)	1.0	1.3	1.6	2.0	2.3	2.7	3.6	4.0	6.0
		NC	17	20	23	26	29	31	36	41	43
		Vertical Throw (m)	0.6	0.6	0.9	1.2	1.5	1.5	1.5	1.8	2.4
			1.2	1.5	1.5	1.8	2.1	2.1	2.4	2.7	3.4
			1.5	1.8	2.1	2.4	2.7	2.7	3.0	3.4	4.0

300 mm Round Neck		Air Flow Rate (CMH)	622	694	767	853	925	998	1156	1229	1489
L(mm)	W(mm)										
1220	610	Total Pressure (mmAq)	0.6	0.7	0.9	1.1	2.3	1.3	2.0	2.2	3.3
		NC	19	22	25	28	31	31	38	40	45
		Vertical Throw (m)	0.6	0.6	0.9	1.2	1.5	1.5	1.8	2.1	2.7
			1.5	1.8	1.8	2.1	2.4	2.4	2.7	3.0	3.7
			1.8	2.1	2.4	2.7	2.7	2.7	3.4	3.7	4.3
1524	610	Total Pressure (mmAq)	0.6	0.7	0.9	1.0	2.3	1.3	2.0	2.2	3.3
		NC	18	21	24	27	30	30	37	39	44
		Vertical Throw (m)	0.6	0.6	0.9	1.2	1.5	1.5	1.8	2.1	2.7
			1.5	1.8	1.8	2.1	2.4	2.4	2.7	3.0	3.7
			1.8	2.1	2.4	2.7	2.7	2.7	3.4	3.7	4.3
1830	610	Total Pressure (mmAq)	0.6	0.7	0.8	1.0	2.3	1.0	1.9	2.2	3.2
		NC	17	20	23	26	29	29	36	41	43
		Vertical Throw (m)	0.6	0.6	0.9	1.2	1.5	1.5	1.5	1.8	2.4
			1.2	1.5	1.5	1.8	2.1	2.1	2.4	2.7	3.4
			1.5	1.8	2.1	2.4	2.7	2.7	3.0	3.4	4.0

- NC values are based on room absorption of 10dB, re 10⁻¹² watts.
- Throw is based on 0-5°C cooling with terminal velocities of 0.38, 0.25 and 0.15 m/s respectively.
- Performance data does not include pressure loss of optional HEPA filter.

LMD Order Code

Model	Material	L	W	H	D
LMD	A	1200	600	230	250

Example : LMD - A - 1200 x 600 x 230 - D250