

## LMD Laminar Diffuser

### Materials

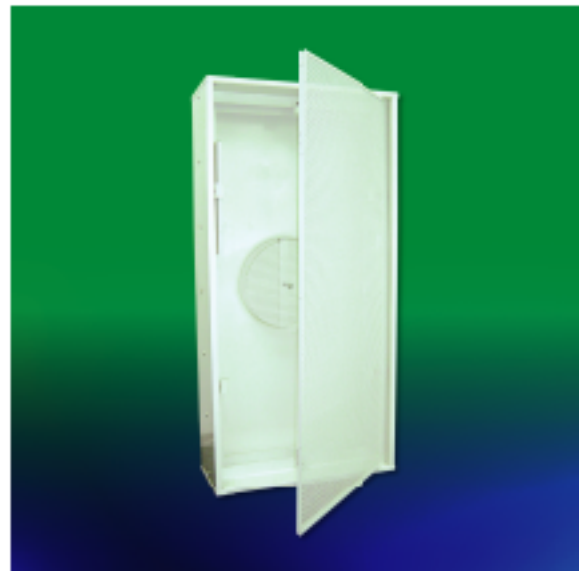
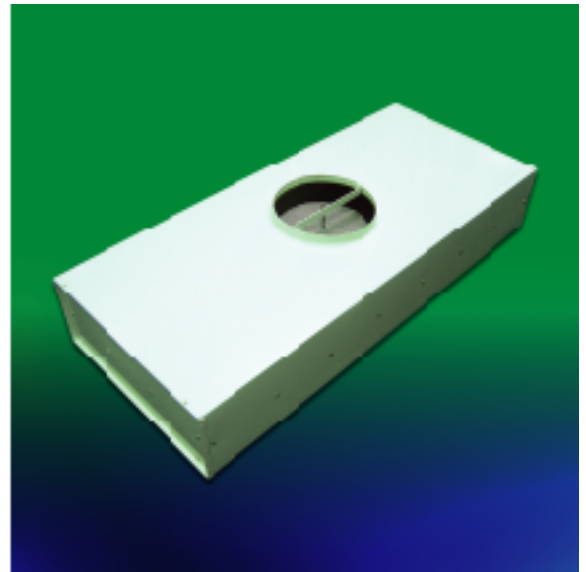
- LMD-A Housing: 1.2mm Aluminum sheet.
- LMD-A Perforated face: 1.2mm Perforated aluminum sheet.
- LMD-T Housing: 0.8mm Galvanized Steel.
- LMD-T Perforated Face: 1.0mm Perforated galvanized steel.
- 2mm Extruded aluminum filter cell side bracket.

### Surface Finish

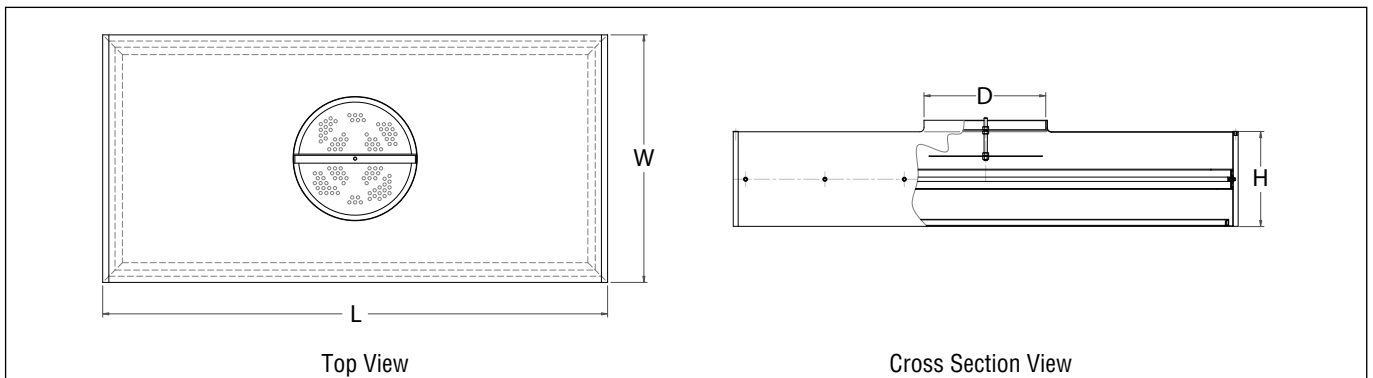
- Baked white powder coat as standard.

### Application

- Laminar Diffuser (LMD) generates a low velocity, evenly distributed, downward moving of conditioned air.
- Installed over the operating table in a hospital operating room. LMD helps to protect the patient from contaminated air by isolating the patient from residual air.
- The column of air delivered by LMD cools the load source directly without high velocities in the occupied space.
- Perforated face is removable.
- Optional HEPA filter.



### LMD Construction Illustrations



### LMD Order Code Unit:mm

| Model | Material | Lenght (L) | Width (W) | Height (H) | Spigot Dimension (D) |
|-------|----------|------------|-----------|------------|----------------------|
| LMD   | Aluminum | 1200       | 600       | 230        | 250                  |

## LMD Laminar Diffuser

### ■ Performance Data for LMD

| 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                    | 18  | 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 | 1.1 | 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.
- Throw is based on 0-5°C cooling with terminal velocities of 0.38, 0.25 and 0.15 m/s.
- Performance data does not include pressure loss of optional HEPA filter.