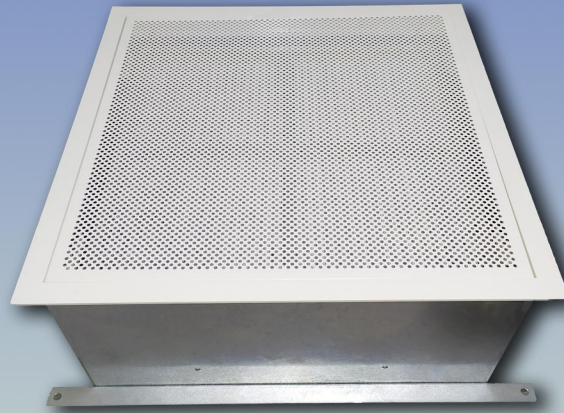


## LAMINAR FLOW DIFFUSER



LFD Laminar Flow Diffuser



**intertek**

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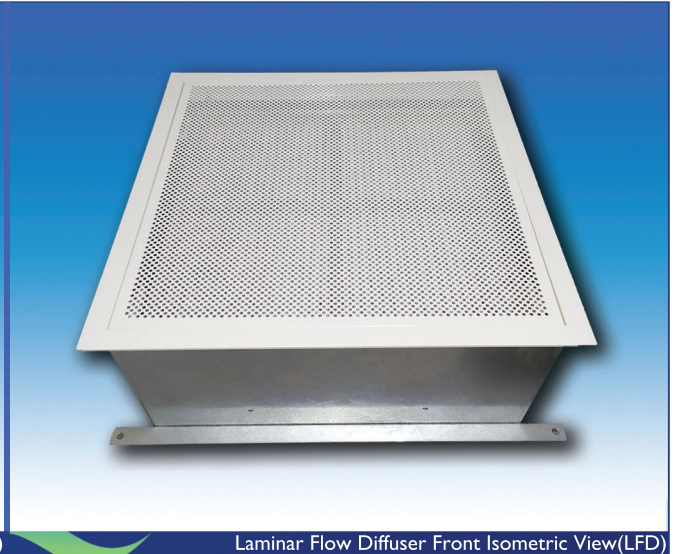
Email: [fjtrdg@emirates.net.ae](mailto:fjtrdg@emirates.net.ae)

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### LAMINAR FLOW DIFFUSER



Laminar Flow Diffuser Front View (LFD)



Laminar Flow Diffuser Front Isometric View(LFD)

### PRODUCT FEATURES

- Designed to be used in clean space environments such as medical facilities, research industries and hospital operation rooms.
- With a capability to provide uniform velocity air and temperature to the occupied zone.

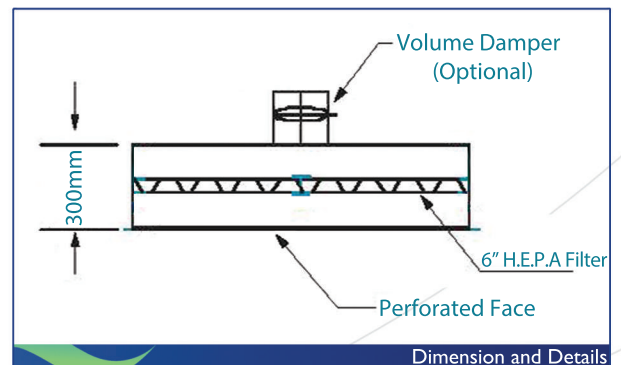
### CONSTRUCTION

- With removable perforated face with a safety chain (optional) for easy cleaning.
- Plenum from Aluminium (standard), galvanized steel or stainless steel sheet.
- Standard finish RAL 9010
- Stainless Steel / Galvanized Steel Perforated Face.
- Inlet Damper constructed of Extruded Aluminium (optional).
- Hepa Filter H13 or H14 grade

### INSTALLATION

By insertion in an exposed T-bar grid ceiling. But support rods or wires can be used for multi-panel assemblies which are normally supported by adjustable rods from ceiling slab and with alignment strips that can be used to align the sections.

### DIMENSION AND DETAILS



Dimension and Details



Laminar Flow Diffuser Back Isometric View(LFD)

**PERFORMANCE DATA**

Unit Size (inxin)	Velocity (Cfm / ft <sup>2</sup> )	20	30	40	50	60	70
24 x 24 Neck Size 8" dia.	Air Flow(Cfm)	80	120	160	200	240	280
	Static Pressure (inch of water)	0.009	0.021	0.038	0.059	0.084	0.115
	Noise Criteria(NC)	<15	<15	<15	18	25	28
	Average Velocity (Fpm)	44	65	69	86	92	101
36 x 24 Neck Size 10" dia.	Air Flow(Cfm)	120	180	240	300	360	420
	Static Pressure (inch of water)	0.01	0.024	0.042	0.065	0.094	0.128
	Noise Criteria(NC)	<15	<15	<15	17	22	26
	Average Velocity (Fpm)	41	48	72	72	82	94
48 x 24 Neck Size 10" dia.	Air Flow(Cfm)	160	240	320	400	480	560
	Static Pressure (inch of water)	0.017	0.038	0.068	0.106	0.153	0.208
	Noise Criteria(NC)	<15	<15	19	25	30	35
	Average Velocity (Fpm)	42	52	64	71	81	89

**NOTES**

- Velocity: Airflow rate through diffuser per square foot of overall face area.
- NC: Based on a 10db room attenuation.
- Average Velocity: At 6 feet below ceiling.
- The above data shown is for a temperature difference of 5°F between the supply air temperature and the average room air temperature.