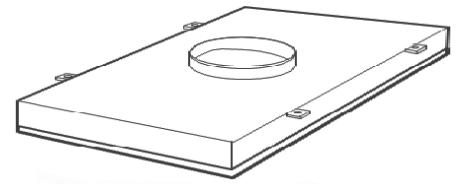


LAMINAR FLOW DIFFUSER - LFD

DESCRIPTION & FEATURES

Laminar Flow Diffusers are suitable for producing high air change rates with a vertical air distribution pattern that avoids entrainment, and are therefore ideal for “clean room” applications.



The standard unit is suitable for Lay in Tee Bar Ceiling Grids (LFD/T). Available options are Flanged Units (LFD/F), Reverse Flanged Units for Multi-Panel assemblies (LFD/M). LFD Diffusers are manufactured from 20swg mild steel perforated plate core (9.5% free area) with a ‘Zintec’ steel body. Flanges, when required, are extruded aluminium with mitred corners being fully welded and finished.

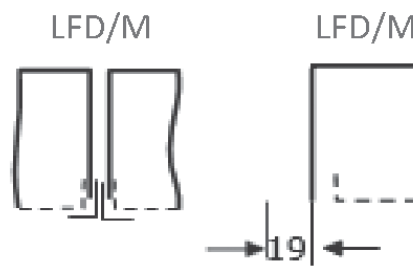
Standard finish is RAL9010 or polyester powder coated to the customers colour requirement.

LFD ORDERING CODE	
Series	LFD
Frame	T - Tee Bar Mounting F - Flanged M - Reverse Flange (Multi Panel)
Fixing	F10 - Hanger Brackets
Finish	1 - (Mill Finish) 2 - RAL9006 (Silver/Grey) 3 - RAL9010 (White) 4 - RAL9005 (Black) 5 - RAL9003 (White) 6 - RAL9016 (White), 7 - Other RAL/BS Code (additional costs may apply) 8 - Chrome Finish - Powder Coated
Example: LFD/T/F7/3/1200x600	



LFD/T

Lay In T Bar Ceiling Grid



LFD/T



LFD/F

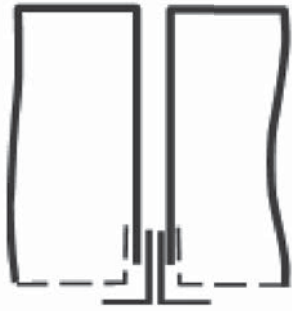
Flanged Unit



LAMINAR FLOW DIFFUSER - LFD

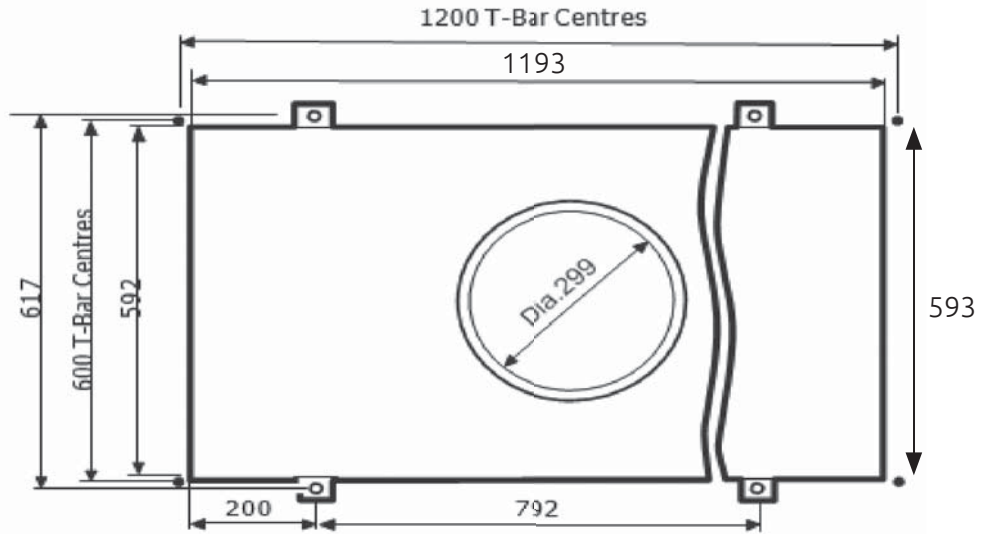
LFD DIMENSIONS

LFD



LFD/M

Reverse Flange for Multiple Assemblies



LFD PERFORMANCE DATA

The performance data is based on the following parameters:

1200x600 unit

Rear plenum assembly fitted with a 300mm diameter spigot

A cooling differential of 6°C

Pressure drops indicated should be increased by 50% where dampers are fitted

NC values are based on a room absorption of 8 dB re 10-12 watts

AIR VOL (l/s)	VELOCITY (m/s)	P.DROP (Pa)	NOISE (NC)
50	0.1	2	/
75	0.1	6	20
100	0.2	9	25
125	0.2	15	35
150	0.2	22	38
175	0.3	29	42
200	0.3	43	44

AIR VOL (l/s)	SIZE (mm)
280-415	2400-1800
400-720	2400-3000
715-1115	2400-4200

MULTI PANEL - LFD/M

Outlet velocities for multiple assemblies would be in the region of between 0.08 and 0.14m/s producing a sound level range of NC15–25 per panel . Correction figures for NC levels in multi panel situations are available on request.