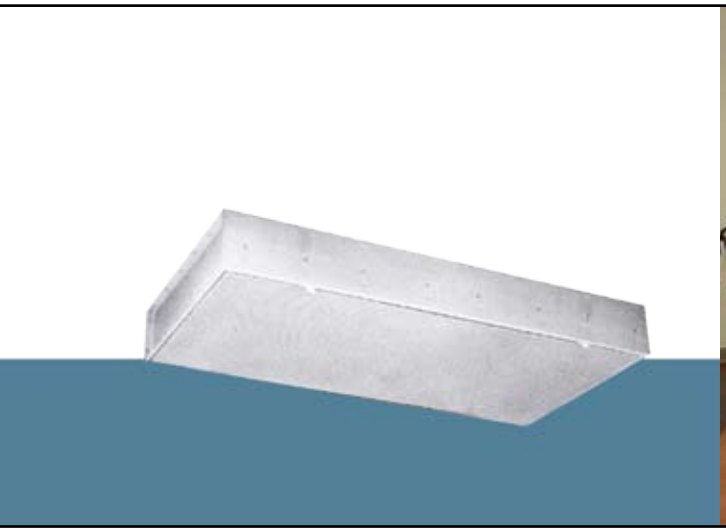
FlexDur Technology

CEILING SERIES
CLD Laminar Diffuser



✣ CLD APPLICATION

CLD model is designed to be used in clean space environments such as medical facilities (pharmaceutical / biotechnology industry), research industries (semiconductors, aerospace industries), Hospital operating and clean rooms.

CLD have low aspiration characteristics resulting in rapid temperature and velocity equalization of air mass into the zone of occupancy.

✣ CLD STANDARD CONSTRUCTION / FEATURES

- Laminar diffusers are exclusively made of high grade aluminum construction.

- Panel have removable perforated face with a safety chain for easy cleaning.

- Plenum is fabricated from Aluminum (Standard), galvanized steel, stainless steel sheet or zincalum sheet.

- Unit could be provided with two frame styles: Lay in T-Bar or surface mount.

- Round neck is 2" high for easy duct connection.

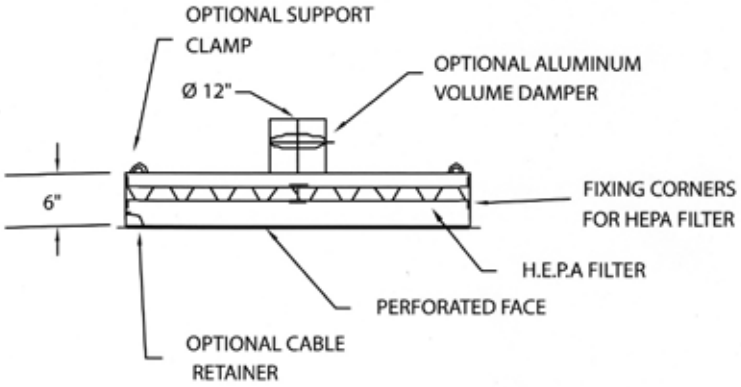
- Standard finish RAL9010.

CLD FIXING METHOD

For individual panels the standards methods of support are by insertion in an exposed tee bars grid ceiling, but support rods or wires can be utilised as multi-panel assemblies which are normally supported by adjustable rods from ceiling slab, alignment strips that can be used to align the sections.

CLD OPTIONS

- Stainless Steel perforated face.
- Inlet damper constructed of aluminum shee
- Hepa Filter H13 or H14 grade.



CLD ORDER KEY INFORMATION

CLD - A - N

Hepa Filter	with HEPA (H), w/o HEPA (N)
Material	Aluminum (A), Steel (S), Stainless Steel (SUS), Aluminum Zinc (AZ)
Model	CLD - Laminar Diffuser

CLD PERFORMANCE DATA

Unit Size (In.)	Velocity (Cfm/ft2)	20	30	40	50	60	70
24"x24" Neck Size Ø8"	Airflow	80	120	160	200	240	280
	SP.	0.009	0.021	0.038	0.059	0.084	0.115
	NC	<20	<20	<20	18.2	25.2	28.2
	A.V (Fpm)	44	65	69	86	92	101
36"x24" Neck Size Ø10"	Airflow	120	180	240	300	360	420
	SP.	0.01	0.024	0.042	0.065	0.094	0.128
	NC	<20	<20	<20	17.2	22.2	26.2
	A.V (Fpm)	41	48	72	72	82	94
48"x24" Neck Size Ø10"	Airflow	160	240	320	400	480	560
	SP.	0.017	0.038	0.068	0.106	0.153	0.208
	NC	<20	<20	19.2	25.2	30.2	35.2
	A.V (Fpm)	42	52	64	71	81	89

Notes:
- S.P: Static pressure is in Inch of Water.
- Cfm/ft2: Airflow rate through diffuser per square foot of overall face area.
- NC: Noise Criteria is based on a 10db room attenuation.
- A.V: Average Velocity at 6 feet below ceiling.
- Test data shown is for a temperature difference DT of 5°F between the supply air temperature and the average room air temperature.