

Ceiling Laminar Airflow (CLAF)

Luxmed® Ceiling Laminar Airflow (CLAF) unit is a containment equipment module utilizing a zoned unidirectional (laminar) downflow supply of air to positively pressurize and purge the working environment from potential contaminants; thereby providing enhanced aseptic work zones for maintaining process integrity and/or product protection.



Application:

- Medical Industry (i.e., operating theatre)
- Filling Line System ISO Class 5 coverage
- Nanotechnology
- High-End Electronics
- Space Industry
- Pharmaceutical Industry
- Research and Development Laboratories

Basic Principles:

- Ambient air is drawn through a prefilter before entering the perforated diffuser into the supply plenum to trap larger particles and increase the life of the main filter.
- The air is forced evenly through a special baffle system that channels the airflow through the gel-sealed HEPA filters, resulting in a laminar stream of clean air that is projected vertically over the internal work zone.
- The downflow supply of air from the ceiling laminar airflow unit flushes and dilutes all airborne contaminants; thereby, providing a particulate-free mobile work environment for enhanced aseptic operations/ processes with guaranteed low noise levels for operator comfort.



Features:

- Antimicrobial powder-coated steel or easy-to-clean stainless steel construction.
- HEPA/ULPA gel-sealed design is better than the conventional gasket sealed design.
- Operating at low noise level allowing efficient and comfortable working environment conditions.
- Microprocessor control with audio/visual alarms for downflow velocity.
- Zoned magnehelic gauges for differential pressure across filters.
- Energy efficient teardrop lightings positioned away from downflow.
- Provision of emergency stop button.

Models:

Model	CLAF		
Materials of Construction	PC - Powder coated EG Steel	S1 - Stainless Steel 304	S2 - Stainless Steel 316 L
Electrical Code	220-240 VAC 50/60 Hz	110-130 VAC 50/60 Hz	100-110 VAC 50/60 Hz
External Width	TBD*		
External Dimension	TBD*		
External Height	TBD*		
Fan	AC / EC		
Filter Type	H13	H14	U15

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