

Laminar Airflow Units (CLAF/SLAF)

Ceiling Laminar Airflow / Standing Laminar Flow

Introduction

Laminar Airflow (LAF) unit is an equipment module using zoned laminar downflow to positively pressurize and purge contaminants, ensuring aseptic environments and process integrity.

Laminar Airflows are customizable units that are:

- CLAF/SLAF units are utilized as open restricted access barriers over filling and capping machines.
- CLAF is a standalone unit mounted via eye bolts and drop rods over specific applications.
- SLAF is a standalone unit mounted over mobile stands for mobile aseptic zones.



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

- Room air drawn via an G4 pre-filter before entering through the perforated diffuser into supply plenum.
- A special baffle system that channels the airflow through the gel-sealed HEPA filters as downflow supply creating an aseptic work zone with low noise.

Standard Features

- Antimicrobial powder-coated steel or easy-to-clean stainless steel construction
- Gel-sealed HEPA filter design
- Sentinel™ Gold microprocessor control with audio/visual alarms for downflow velocity and differential pressurea cross filters
- Ergonomic design
- Energy efficient lighting
- PVC strips curtains
- Emergency stop

Optional Features

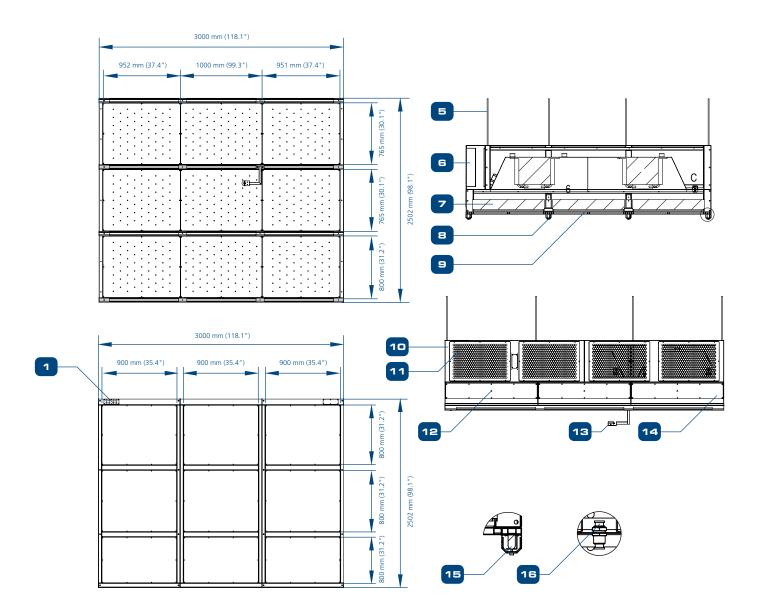
- Remote mounted main control panel
- Simple switch controller
- Upgrade to HMI/PLC controller
- Upgrade to gel-sealed ULPA filter design
- Splashproof electrical outlets
- Pressure gauge provision
- Option for hard wall panel

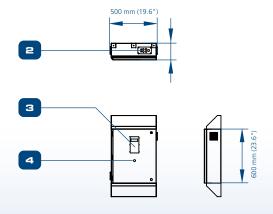
Guide to Models							
CLAF-PC-1 -AC-H14							
Product Code	Materials of Construction	Electrical Code	Internal Width	Internal Dimension	Internal Height	Fan	Filter Type
CLAF SLAF	PC - Powder coated EG Steel \$1 - Stainless Steel 304 \$2 - Stainless Steel 316 L	1 - 220-240 VAC 50/60 Hz 2 - 110-130 VAC 50/60 Hz 3 - 100-110 VAC 50/60 Hz	TBD*	TBD*	TBD*	AC EC	H14 Others

^{*} To be discussed according to customers' preference



Engineering Drawing





- 1. Plenum Tubing and Power Cable Inlet
- 2. Local Operationg Panel (LOP) Tubing and Cable Inlet
- 3. Esco Sentinel™ Gold Microprocessor Controller
- 4. Emergency Stop
- 5. Stainless Steel Threaded Rod
- 6. EC Blowers
- 7. H14 HEPA Filters
- 8. T5 LED Lights
- 9. Perforated Diffusers
- 10. Stainless Steel Plenum
- 11. Stainless Steel Exhaust Grilles
- 12. PAO Sampling Port
- 13. Airflow Sensor
- 14. Stainless Steel Cover Filter Housing
- 15. Lamp Housing
- 16. Upstream Port

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Aseptic Containment Isolator (ACTI) Ceiling Laminar Airflow Units Cleanroom Transfer Hatch Containment Barrier Isolator (CBI) Downflow Booth (DFB) Dynamic Floor Laminar Hatch Dynamic Pass Box Evidence Drying Cabinet Garment Storage Cabinet General Processing Platform Isolator (GPPI) Laminar Flow Horizontal Trolley Laminar Flow Straddle Units, Single and Double Laminar Flow Vertical Trolley Pass Box Soft Wall Cleanroom Sputum Booth Ventilated Balance Enclosure (VBE)

Weighing and Dispensing Containment Isolator (WDCI)

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Air Shower







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