

LAMINAR AIR FLOW / HORIZONTAL AND VERTICAL



MS Vertical LAF



SS horizontal LAF

Model: VSLIC-E112

A **laminar airflow cabinet** is a working station that comes with Prefilters and HEPA Filters/ULPA Filters. The Laminar Flow cabinet is also known as Tissue culture Hood which is used to save the testing sample from particle reactive materials. Laminar is a term that explains the constant flow of air in one dimension without any disturbance. Laminar Air Flow provides a microorganism & particle-free environment to carry out such special work for research purposes. Chamber of Tissue culture hood is made up of leak-proof stainless steel 304. LAF works on airflow velocity range from 0.3m/s to 0.5m/s towards the user.

There are two types of Laminar Airflow available in the market one is Vertical and another one is **Horizontal LAF**. These two types of LAF designed almost in the same manner but HEPA filter & pre-filter placement is different. Yatherm Manufactures a double filtration system in all types of LAF with the best price in INDIA.

Vertical Laminar Air Flow

Air flows vertically through *HEPA Filter* from top to down & then leaves the cabinet. ULPA filter can also be used instead of the *HEPA filter* for better results in the research field. Due to less weight of micro-contaminants & gravity, it gets to settle down at the bottom with the help of airflow and then leaves the cabinet easily. *Vertical Laminar* is very similar to the cleanroom which makes it popular in Hospitals Operation theaters. Vertical laminar also come in hanging type which makes it very much acceptable worldwide for various kind of application.

Advantages

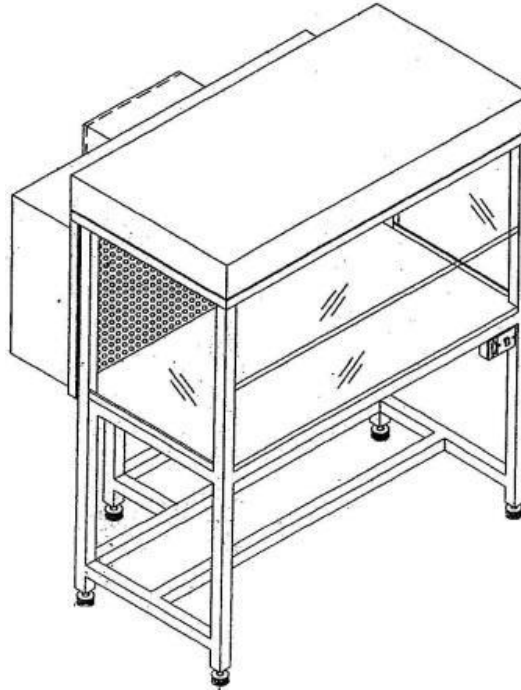
- Less Floor Area required
- Used For Compounding Sterile Products
- Lesser air flow Turbulence
- Cross-contamination is next to impossible



Horizontal Laminar Air Flow

Air flows horizontally through HEPA Filter Fitted at the backside towards the user. Horizontal LAF is the most demanded LAF in the Indian Market because of economic advantage over Vertical one. It has various features like an easy replacement of HEPA filters and pre-filters with the Validation feature of the **DOP test**.

Laminar Air Flow Diagram



Laminar Air Flow Diagram

Advantages

- hands & gloves are less contaminated from airflow while working
- Easy in work & operation
- Less turbulent effect while working

Choose your laminar Carefully

- Required Airflow system
- User Safety
- Clearance Requirement
- Space Availability
- Design of Working Surface

Application (You Demand & we design)

- Hospitals
- Microbiology Lab
- IVF
- Path Labs
- Pharmaceuticals
- Plan & tissue culture lab

Laminar Air Flow Chamber Equipped with below parts

- Blower
- Pre-filter
- Magnehelic Gauge
- Work Bench
- Sash
- Light



- UV Light
- HEPA Filter
- ULPA Filter (optional)
- Validation Port for DOP test

Laminar Air Flow Technical Specification

Airflow direction	Vertical & Horizontal
Air cleanliness (available)	Class 10, Class 100, Class 1000
Construction	SS 304 / PCRC
Airflow direction	Vertical / Horizontal
Sash (front door)	Glassdoor Sliding Type
Side panels	Acrylic/ Glass
Air velocity	0.45 m/s to 0.65 m/s
Illumination	LED Light
Noise level	55 ±5 dB
Power supply	220 volts / 50 Hz
Air filtration	Pre-Filter - 10 microns (washable), HEPA filter (0.3 Microns)
Standard fittings	Air/gas cock, Mains on/off switch, Light on/off switch, UV Light on/off switch, Blower on/off switch
Optional	Motorized sliding door, Digital Controller, UV Germicidal lamp, UV Hour meter, Magnahelic gauge

Dimension Matrix

Dimensions (ft) Working Area	Dimensions (mm)	HEPA Filter Size (Inches)	No. of Pre Filters (unit)
2 x 2 x 2	610 x 610 x 610	2 x 2 x 6	1
3 x 2 x 2	915 x 610 x 610	3 x 2 x 6	2
4 x 2 x 2	1220 x 610 x 610	4 x 2 x 6	2
6 x 2 x 2	1828 x 610 x 610	3 x 2 x 6	3
8 x 2 x 2	2438 x 610 x 610	4 x 2 x 6	4

