

Table Top/Bench Top Laminar Airflow Cabinet

A laminar flow cabinet or tissue culture hood is a carefully enclosed bench designed to prevent contamination of semiconductor wafers, biological samples, or any particle sensitive materials. Air is drawn through a HEPA filter and blown in a very smooth, laminar flow towards the user. Due to the direction of air flow, the sample is protected from the user but the user is not protected from the sample. The cabinet is usually made of stainless steel with no gaps or joints where spores might collect.

AIR FILTRATION :

The efficiency of a Laminar Air Flow workstation depends upon the quality of pre filters and HEPA filters. In our LAF, the Air filtration system is created to work efficiently even in critical environment. Pre filter that we use are box type pleated having efficiency 95% down to 5 micron and made of HDPE + Non-woven + HDPE mesh media and fitted in aluminium case. The HEPA filters are of high quality having efficiency 99.99 % down to 0.3 micron and fitted in aluminium anodized case. The blower assembly has ¼ HP; 1400 RPM branded motor and has aluminium anodized impellers.

The working area is carefully designed for comfortable working and easy cleaning. The workbench is made of stainless steel. Standard fittings are air / gas cock and electrical outlet. For illumination, we use fluorescent lamps. Front side of working area is covered by manual sliding door (sash), which is made of transparent acrylic plastic. There are some optional features that can be added if required by customer. LCD display for air velocity, time and lamp on/off status are displayed on it. Germicidal UV lamp, extra electrical socket and magnahelic gauge are also fitted if required.

GERMICIDAL UV LAMP:

UV lamp is an added option which is used to sterilize working area prior use. It is advised no contact to be made in chamber during this time. We are ISO and CE certified laminar air flow manufacturers and suppliers in India. Our company designs both types of horizontal and vertical laminar flow benches for laboratory uses that meet ISO (class 100) standards. These units are ruggedly constructed for years of worry free operation and made with stainless steel sheet (304/ 316) or powder coated mild steel or GI sheets)



Key Features

Of Table Top/Bench Top Laminar Airflow Cabinet



Air cleanliness	Class 100
Construction	SS / Powder coated MS / GI sheet/ wooden
Air flow direction	Vertical / Horizontal
Sash (front door)	Manual sliding type (Acrylic transparent)
Side panels	Acrylic / polycarbonate / SS
Air velocity	0.45 m/s to 0.65 m/s
Illumination	Fluorescent or LED light
Noise level	65 ±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 LCD display for velocity, time & lamp on/off UV Germicidal lamp UV Hour meter Magnehelic gauge Extra power outlet switch Foot rest Levelling legs for stand DOP HEPA filter testing

CONTACT:



Plot No. 6 - Ekta Vihar, Ambala Cantt.133001



Mobile No.: 8295732110, 7056732110



Sales@labsolutionindia.com



Labsolutionindia.com



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e Marketplace
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