

LAMINAR FLOW



We are manufacturers of **horizontal laminar air flow** in India since 2000. Our **laminar air flows** are widely used for day to day clean rooms activities, pathogen handling, microbiology and biotechnology applications in various laboratories.

We specialize in both standard and **customized laminar air flow**, specifically designed to meet the challenging demands of various scientists for individual and specialized research applications. Over a short period of time Weiber brand have been established as reliable exporters of horizontal laminar air flow in India, Sanjeev Scientific Udyog .Apart from that we are supplying our laminar air flows in India , catering to a variety of customers ranging from Defence Installations, Research Laboratories, Educational Institutes and various R& D laboratories of leading national and multinational companies.

Product Over View:

Our laminar air flows are conceptualized to provide a work area completely bathed in high efficiency perfect air which is free from any kind of particulate contamination or impurities. These units are ideally suited in all the applications requiring protection of biological specimens or products from the possible contamination during the process or test. Our laminar air flow bench is fast gaining popularity in other fields, such as pharmaceutical production, electronic industries and various other manufacturing applications.

Process Explanation: Laminar Air Flow Technology

SSU Laminar air flow are clean benches which have their own supply of highly purified air in which the total air present in the enclosure moves in a uni directional velocity flowing in parallel lines, which is free from macroscopic fluctuations.

The horizontal laminar air flow units directs the air in mono direction which is away from the specimen and towards the user, giving ultimate protection to the product, which is susceptible to contamination induced by diffusion of contaminated air carrying air transported contaminants from the outside environment.

Classifications: Laminar Air Flow

All the laminar air flows are classified into three broad categories as per US Federal Standards 209 B Ans 209 E (latest revision on 11.09.92). As per this standard the particle count in the existing air around the work table is taken into account.

Laminar air Flow Class 100

These laminar air flow units are those where the particle count of size 0.5 micron and larger is less than one hundred particle/ cubic feet, in the area of work.

Laminar Air Flow Class 10,000

These laminar air flow units are those where the particle count of size 0.5 micron and larger, is less than ten thousand particle per cubic feet or sixty particle per cubic feet of dimension larger than five micron and bigger size in the area of work

Laminar Air Flow Class 1,00,000

These laminar air flow units are those, where the particle count of size 0.5 micron and larger is less than one lac particle per cubic feet or seven hundred particles per cubic feet of dimensions five micron or larger. In the area of work.

Construction Details Of Horizontal Laminar Air Flow

Basic Construction:

Our horizontal laminar air flow bench are designed to conform to the united states federal standard 209B/BS5295 and meets the class 100 conditions. Our units are fabricated of industrial grade wooden boards covered with mica sheets. The inner portion of all our laminar air flows are painted with epoxy paint coating for extra long life. The working table is made of heavy gauge stainless steel sheet of grade ss-304. The side panels made out of heavy plexi glass sheets are mounted on anodized aluminum frames. The whole unit is supplied with differential manometer to gauge the pressure drop in the unit while operation, beside the gas cock, power socket etc.

Filter Assembly

All our laminar air flows are fitted with fully washable synthetic pre-filter units and secondary high efficiency perfect air filters made of mini pleated non woven fabric. The efficiency of our filters have a rating of better than 99.99% at DOP (cold) and 99.97% at DOP (Hot). Our units have the capacity to hold all suspended particles of size greater than 0.3 micron.

Motor And Blower Assembly:

All our laminar air flow units are provided with perfectly balanced (Static as well as dynamic) motor and blower motors bearing ISI mark. The rating of the assembly is 1/5 HP. Our high efficiency pumps which have life log lubricated bearings ensure a trouble free operation for a long time.

Illumination:

All the units are provided with adequate illumination at the work table by means of fluorescent lights panel concealed at the upper portion of the unit. This light arrangement conforms to the guidelines laid down in US federal standard . The illumination at the work table is approx 800 lux.

Ultra Violet Light

Optimal wattage ultra violet light is incorporated in the illumination panel of our laminar air flow to take care of the sterilization of the existing air present in the enclosure, thus ensuring the high standard of cleanliness in our equipment before the commencement of actual working.

Noise Level:

Our laminar air flow bench are designed to ensure that the work enclosure have minimum possible vibration levels and noise level is also contained below 55 db.

Salient Features- Horizontal Laminar Airflow :

- Ergonomic Design
- Versatile Usage
- Low Noise And Vibration Levels
- Conforms to US Federal Standard 209 B
- Calibration And Protocol Documentation

Applications- Horizontal Laminar Airflow :

Our Vertical laminar air flows have a variety of applications such as

- Quality control labs of pharmaceutical Industries
- Quality control labs of food processing industries
- Quality control labs of micro circuit and electronic assembly and manufacturing applications.
- Deoxy Ribonucleic Acid Thermo cycling
- General Laboratory applications in Biotechnology
- General Laboratory applications Microbiology
- General Laboratory applications Tissue Culture
- General Laboratory applications Genetic engineering

Technical Matrix: Vertical

Constructions

Industrial grade mica clad wooden board

Table

Stainless steel sheet table of ss-304 grade

Pre Filter

Washable pre-filter unit

HEPA Filters

Glass pleated non woven fabric filter having 99.99% efficiency 0.3 micron particle size.

Air Flow

Unidirectional.

Air Flow Control

Three Step air flow speed controller

Blower Assembly

Centrifugal lubricated bearing type ISI marked assembly

Illumination

Fluorescent light illumination greater than 800 lux on work table

Noise level

Noise level less than 54 db

Add on features

Gas/air/vacuum line cock

Power Requirements

500 watts – 750 watts (Model specific)

Internal Work Space

600mmx600mmx600mm/ 900mmx600mmx600mm/ 1200mmx600mmx600mm
/1800mmx..

Nominal voltage

220-230 Volts, 50 Hz Single Phase

Frequency

50

Manufacturer :-



48 A 1ST FLOOR, KUNJ VIHAR, BEHIND B.D. FLOOR MILL, AMBALA CANTT-133001 HARYANA (INDIA)

PH. 0171-2690847 (off.), MOB. 9034101997(K), MOB. 9728790667(K)

E-mail: labprointernational@gmail.com , labpro@india.com

Manufacturers & Suppliers:

LABORATORY EQUIPMENTS, GLASSWARE

