

# LAMINAR AIR FLOW

(Horizontal)



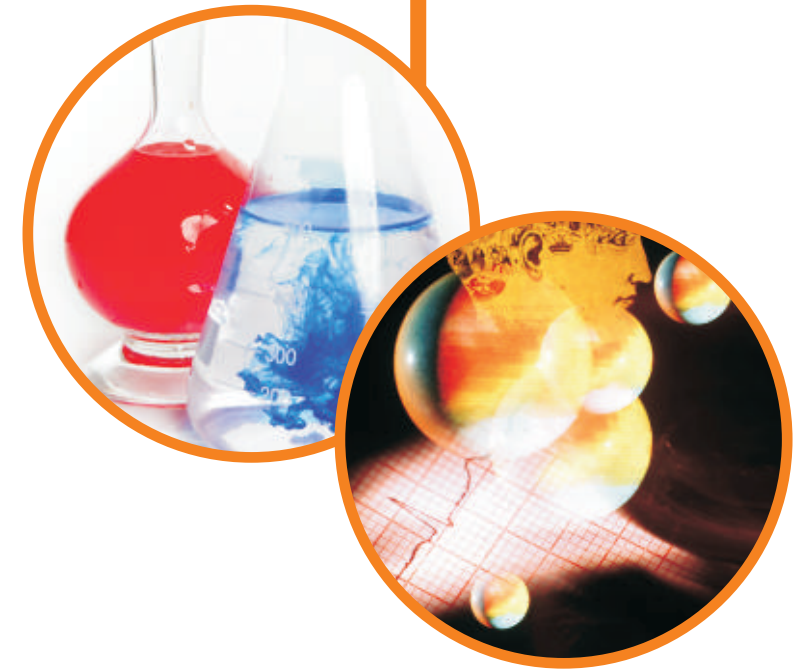
Models:

- Acm-22066-1

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## Laminar Air Flow Horizontal

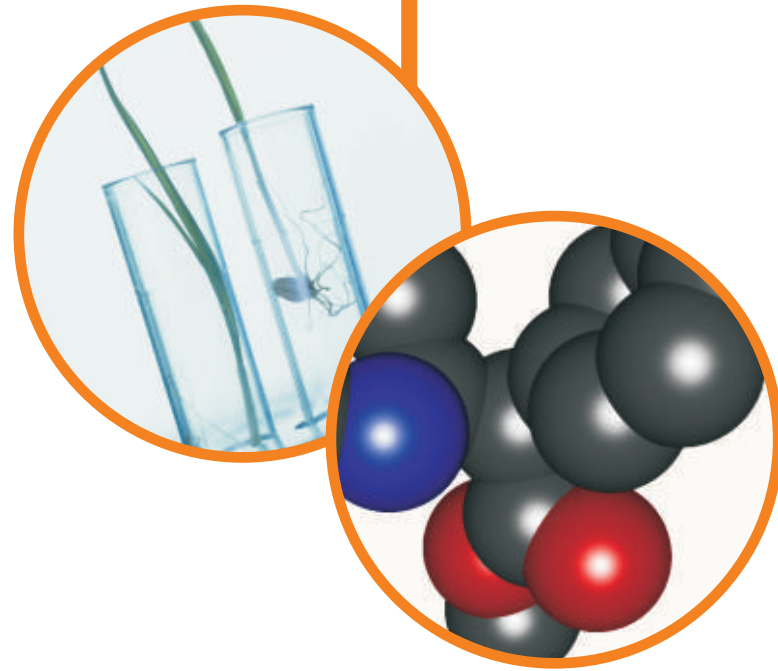
Clean benches are designed to protect biological specimens by bathing the work area with HEPA filtered air that is free of particulate contamination. They were developed as an adjunct to clean room technology (the need to protect the work from contamination). In recent years, the use of the clean bench has spread from research and manufacturing to other fields such as aerospace, bioscience, pharmaceutical production and food processing. .

Laminar flow clean benches are work benches or similar enclosures, which have their own filtered air supply. Laminar airflow is airflow in which the entire body of air within a confined area moves in a unidirectional velocity along parallel flow lines. In such cases, the fluid flow is free of macroscopic fluctuations.

Aside from the HEPA filter rating, clean benches are also rated according to their Air Cleanliness Class. In Federal Standard No. 209E (last revised Sept.11,1992) the United States Government provides requirements for three classes

of air cleanliness. Classifications are based on particle counts taken at a location within the clean bench, which will yield a particle count of air as it approaches the work location. It is important to note that government classifications reflect performance when the bench is "at rest", or free of materials or work activity within the hood. These classes are Class 100, Class 10,000 and Class 100,000. Aside from the HEPA filter rating, clean benches are also rated according to their Air Cleanliness Class. In Federal Standard No. 209E (last revised Sept.11, 1992) the United States Government provides requirements for three classes of air cleanliness. Classifications are based on particle counts taken at a location within the clean bench,

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## Laminar Air Flow Horizontal

**In Class 100, particle count is not to exceed a total of 100 particles per cubic foot of a size 0.5 micron and larger.**

**In Class 10,000, particle count not to exceed a total of 10,000 particles per cubic foot of a size 0.5 micron and larger, or 65 particles per cubic foot of a size 5.0 micron and larger.**

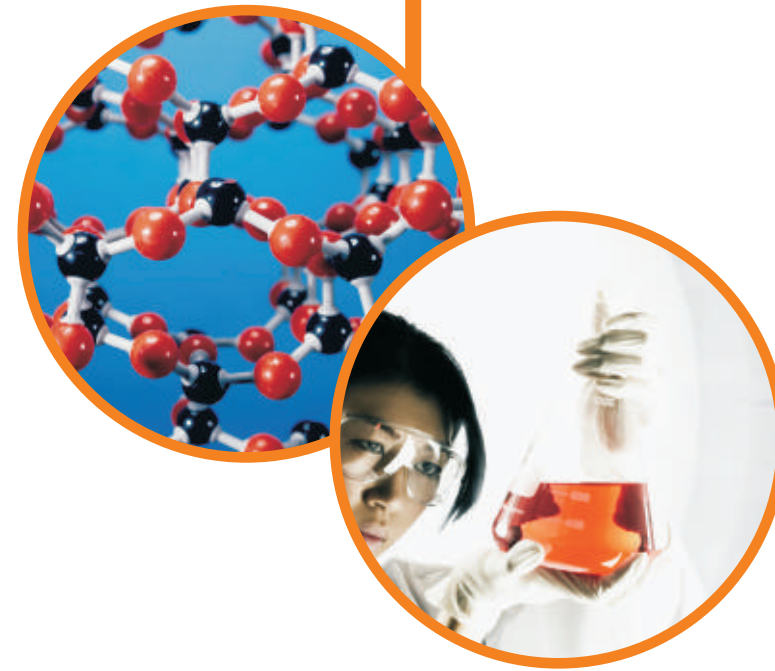
**In Class 100,000, particle count not to exceed a total of 100,000 particles per cubic foot of a size 0.5 micron and larger, or 700 particles per cubic foot of a size 5.0 micron and larger.**

Our horizontal clean benches direct air in one direction only, although the design of the bench determines whether the air is directed horizontal direction. However, this direction is always away from the specimen and towards the worker. As such, clean benches provide no protection for workers. Clean

benches also do not protect the worker from aerosols or fumes generated by the procedure. Designed for the situation where is requested the product protection from dangerous effects due to uncontrolled diffusion of air-transported contaminants from the environmental to the product during its handling

### Features

Weiber Horizontal Laminar Airflow Workstation is specially designed to provide the ideal particle-free, bacteria-free, clean-air environment needed for laboratory work testing, manufacturing, inspection, or pharmaceutical procedures. The exclusive design innovations built into the Acm-4202-L will provide exceptional performance in the most demanding environments. It provides an economical work environment that exceeds the most stringent contamination requirements in the pharmaceuticals, biotech, electronics and semiconductor research and development labs and



## Laminar Air Flow Horizontal

production line ups.

- Ergonomic Design
- Particulate Free Product Protection
- low cost
- Universally tested
- Low Cost
- Quieter

### Construction

Designed so as to meet the requirements of US Federal Standard 209 B ( BS 5295 ) providing particle free air to meet class 100 ( class conditions ) The cabinets are fabricated out of thick Laminated wooden board.. Interior surfaces are epoxy painted for its longer life. The work table is made of thick Stainless steel sheet of SS-304 grade. Side panels are

made out of thick transparent plexi glass duly framed. The unit is fitted with pre-filter and is made to pass through highly effective HEPA( High Efficiency Particular Air) filters having efficiency rating as high as 99.99%. with cold DOP and 99.97% with hot DOP, thus retaining all air-borne particles of size 0.3 micron and larger. Using a dynamic machine, the blower and motor assembly is statically and dynamically balanced ISI MARKED Motor of 1/5 H.P. capacity operates with minimum noise level. The working area is illuminated by fluorescent lighting fitted to the unit. Height of the working table provides comfortable "SIT DOWN" working position for the operator. To work on 220/230 volts AC supply. Supplied complete with sun mica table top. HEPA filters, pre-filter and fluorescent illumination.



## Technical Specifications

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|                       |   |
|-----------------------|---|
| Hepa Filter           | 99.999 %efficiency for particles >0.3 $\mu\text{m}$                                   |
| Pre-Filter            | 85 %efficiency for particles >0.5 $\mu\text{m}$                                       |
| Particle Count        | Better than US Fed Std 209B Class10 and VDI 2083 Class 3                              |
| Cabinet               | Laminated High Quality Wooden Board / PCRC Sheet Powder Coated/Stainless Steel SS 304 |
| Work Table            | AISI 304 Stainless Steel  |
| Airflow Speed Control | Speed Controller (Three Step SpeedController)   |
| Blower                | High efficient centrifugal type with lifetime lubricated bearings                     |
| Light                 | High intensity,low wattage >800 lux   |
| Noise Level           | <55 dBA   |

|                      |  |
|----------------------|--|
| Standard Accessories | Air/gas cock and .mains power socket (16A)   |
| Power Supply         | 220-230 V,50 Hz.   |
| Power Consumption    | 400 w  |
| Internal Work Space  | 600mmx600mmx600mm<br>900mmx600mmx600mm<br>1200mmx600mmx600mm<br>1500mmx600mmx600mm<br>1800mmx600mmx600mm |
| Net/Packed Weight kg | 70kg/98kg to 185kg/257kg (Model specific)  |

**Note:** Special customized sizes of these laminar air flow can also be fabricated as per te specific Customer requirements.

### SALIENT FEATURES.

#### Model

- Static finish S.S. Table Top
- Transparent Front Door (5mm)

- Static Pressure Manometer
- Built in U.V. Germicidal Light
- Cock for gas, air or vacuum line



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