

TekBIO Vertical Laminar Air Flow



TekBIO 045 Vertical Laminar Air Flow:

We have a range of high-performance vertical Laminar Air Flow cabinets. Modular construction, combining aesthetic appeal with functional utility and efficiency. These are designed to meet the filtration, illumination, Noise & Vibration requirements and US Federal Standard 209 B (BS 5295) Providing air to meet class 100 (class I) conditions, to the extent applicable. It is Ideal for microbiological manipulations, work with bioassays sterility testing & research work. Vial filling & bunging operation in parenteral units & for general dry-process semiconductor industry etc. Provides a comfortable 'sit down' working position for the operators.

Construction:

All laminar flow clean air cabinets are basically constructed out of thick CRC sheet - powder coated or thick teak wood board which is termite and insect proof. The work table is made of S.S.304 and side panels of thick transparent plexiglass.

Air Flow And Filtration:

Laminar flow principle involves double filtration of air. Atmospheric air is drawn through pre-filter and is made to pass through highly effective HEPA (High-Efficiency Particulate Air) Filters having the efficiency rating as high as 99.99% with cold Dand 99.97% with hot DOP, thus retaining all airborne particles of size 0.3 micron and larger. Double filtered air blows in laminar flow through the work table at the DB designed velocity of 90 ft. min \pm 20%.

Blower Motor Assembly:

Duly balanced, direct drive motor blower units sized to provide adequate airflow volume over the entire surface of HEPA filter. Fitted with standard make motor and operates with minimum noise level i.e. lower than 6dB on scale and vibration less than 2.5 μ m.

Lighting:

Work area properly illuminated by diffused, glare-free fluorescent Light.

Available Working Size

- 2ft x 2ft x 2ft
- 3ft x 2ft x 2ft
- 4ft x 2ft x 2ft
- 6ft x 2ft x 2ft

TekBIO Horizontal Laminar Airflow System

Ideal for Microbiological manipulations, work with bio-assays, sterility testing, and research work; Vial filling and bunging operations in parenteral units and general dry processing work in semiconductor manufacture and Tissue culture work. Horizontal Laminar Airflow (unidirectional Airflow) is a confined area moving in a uniform velocity along parallel flow lines. A continuous wash of HEPA/ULPA filtered Air moving horizontally across the work area. The uniform stream of air filtered air moves forward over the work surface from the rear of the work area. The airflow across the work area directly at the user and exhausts into the surrounding area.

Working Size:

- 2ft x 2ft x 2ft
- 3ft x 2ft x 2ft
- 4ft x 2ft x 2ft
- 6ft x 2ft x 2ft