

Laminar Air Flow Horizontal



Laminar air flow Workstations provide a high degree of localized control for critical processes. The Laminar air flow Workstations operate by drawing ambient air, under negative pressure, into the unit. This air first passes through a Pre-filter which traps the larger dust and dirt particles. The blower then directs this pre-filtered air, now under positive pressure, through the 99.99% efficient HEPA(High Efficiency Particular Air) 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. Double filtered air blow in laminar flow through the work area at designed velocity of 90 ft/min +/- 20%. filter engulfing the entire work area with sterile, unidirectional ultra-clean air. It also washes away particles that may be generated by manipulations within the Flow.

HEPA filters made of micro clean glass fiber paper of imported origin with fine corrugated aluminium foil separators. Pressure drop will be 18mm WG. Pre -filters are manufactured by using synthetic non woven polyester fabric material with HDPE mesh reinforcement on both sides. Both the filters are protected by suitable grill arrangement. Blower Motor Assembly: Statically and dynamically balanced single phase, double shaft motor directly coupled with a pair of centrifugal type aluminium impeller and enclosed with a specially designed MS casing. Direct drive, size to provide adequate air flow volume over the entire surface of HEPA filter. Fitted with 1/2 HP motor and operates with minimum noise level i.e. lower than 65 db on scale and Vibration less than 2.5 um (0.0001 deg).

Horizontal Laminar Air Flow cabinet is ideal for the Application in the field of Scientific & Industrial Research, Biology, Microbiological, Biotechnology & Toxicology & Tissue Culture, Laboratories in Hospitals, Medical Services, Educational Institutions, Drugs & Pharmaceutical Industries, Automotive & Electronics, Space Applications, Sterility testing, Semiconductor manufacturers.

TECHNICAL DETAILS

Direction of flow	Horizontal
Cleanliness	Class 100
Standard	ISO 14644-1
Illumination	>750 lux
Noise Level	60 – 65 decible (A)
Vibration Level	200 micron

Filtration I	Pre-filter 10 micron with 90% efficiency
Filtration II	HEPA filter 0.3 micron with 99.97% efficiency.
Work table	Made up of S.S. sheet
Front door	Clear acrylic with double fold type
Motor & Blower	1/2hp with single shaft motor (1400 RPM) and aluminum impeller
Side panel	6mmthick glass.
Unit supplied with standard accessories	Stainless Steel Table top, UV lamp: Philips Holland makes Fluorescent Lamp: 2nos Philips makes Gas Inlet Manometer Castor wheel Roller with break
Power Requirement	230V, 1 Ph, 50 HZ AC supply

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