LAMINAR AIR FLOW BENCH

Laminar flow cabinet (horizontal/ vertical) designed so as to meet the requirements of ISO 14644-1, 2 and 3 standards thus providing particle free air to meet ISO 5 Class 100 conditions. The unit is fitted with pre-filter and HEPA filter. Air is drawn through pre-filter and is made to pass through highly effective HEPA filters having efficiency rating as high as 99.99% with cold DOP & 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 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.

SAILENT FEATURES

- The cabinet is fabricated of MS duly powder coated (optional SS 304)
- Work table is made of SS 304 which makes it easy to clean, washable & chemical resistive, corrosive free. (optional SS 316)
- Side walls are made out of SS 304 sheet (Optional - thick transparent glass duly framed)
- High efficiency pre filter
- HEPA filter efficiency- 99.99% with cold DOP & 99.97% with hot DOP thus retaining all air-borne particles of size 0.3 micron
- Manometer gauge to monitor pressure drop in the unit across filter
- Built in U.V. Germicidal Light of 254 nm for disinfection
- Fluorescent light for work space illumination with intensity greater than 1200 Lux
- Velocity 95 fpm ± 10 fpm
- Vertical sliding transparent front door made of glass with UV protective film supported by counter balance weight mechanism (For Vertical LAF)
- Folding acrylic door for Horizontal LAF (Optional
- Utility gas cock and multi point electric socket
- Noise level less than 60 dB
- Machine qualifies Particle Count Test, Filter Integrity Test, Velocity Test, DOP/POA Test, Light intensity Test and UV Watt Test
- Machine is fitted with lockable castor wheels for ease of movement and fixed with rubber levelling pad.
- Works on 230V AC supply

SPECIFICATIONS

Model	SAII-LAF-V-010	SAII-LAF-V-011	SAII-LAF-V -012	SAII-LAF-V -013	SAII-LAF-V-014
Size of work area (W x D x H feet)	2' x 2' x 2'	3' x 2' x 2'	4' x 2' x 2'	5' x 2' x 2'	6' x 2' x 2'
External Size (W x D x H Approx Ft)	2.4' x 2.7' x 6.9'	3.4' x 2.7' x 6.9'	4.4' x 2.7' x 6.9'	5.4' x 2.7' x 6.9'	6.4' x 2.7' x 6.9'
No of HEPA filters	1	1	1	1	1
No of pre filters	1	1	1	2	2
LED light Illumination	1 x 5 W	1 x 10 W	1 x 15 W	2 x 20 W	2 x 20 W
UV Germicidal light	1 x 1½'	1 x 2'	1 x 3'	1 x 4'	1 x 4'

Model	SAII-LAF-H-010	SAII-LAF-H-011	SAII-LAF-H -012	SAII-LAF-H-013	SAII-LAF-H-014
Size of work area (W x D x H feet)	2' x 2' x 2'	3' x 2' x 2'	4' x 2' x 2'	5' x 2' x 2'	6' x 2' x 2'
External Size (W x D x H Approx Ft)	2.4' x 3.2' x 5'	3.4' x 3.2' x 5'	4.4' x 3.2' x 5'	5.4' x 3.2' x 5'	6.4' x 3.2' x 5'
No of HEPA filters	1	1	1	1	1
No of pre filters	1	1	1	2	2
LED light Illumination	1 x 5 W	1 x 10 W	1 x 15 W	2 x 20 W	2 x 20 W
UV Germicidal light	1 x 1½'	1 x 2'	1 x 3'	1 x 4'	1 x 4'

OPTIONAL:

- Outer body made of SS 304 and inner body made of SS 316 (GMP model)
- Foldable acrylic door for Horizontal LAF
- Front door made of transparent acrylic or polycarbonate sheet in lieu of plexus glass (For Vertical LAF)
- Motorized door lifting arrangement at press of a button (For Vertical LAF)
- Analog Magnehelic gauge (Dial Type)
- Digital Magnehelic gauge with filter choke alarm
- Interlocking of UV germicidal tube and door will auto switch off UV light when the door is opened
- Microprocessor LCD controller with digital display for status indication of ON/OFF - Blower, ON/OFF - UV Lamp & ON/OFF – LED Lamp and blower failure status indication
- Hour meter totalizer for U.V. light burning time
- UV light timer for automatic ON/OFF cycle of chamber sterilization
- Flow velocity sensor with display for measuring air flow velocity
- IQ, OQ and PQ documentation and Onsite Validation