

## YORLAB® LAMINAR AIR FLOW CABINET

### Model No.: YSL / YSI-189

#### Specifications:

- YORLAB offers a comprehensive range of high performance Vertical, Laminar Flow Clean Air Cabinets. Modular construction, combines aesthetic appeal with functional utility and efficiency. These are designed to meet the requirements as per US Federal Standard 209 E, providing air to meet Class 100 conditions, with work zone.
- Ideal for microbiological manipulations, work with bioassays sterility testing & research work, vial filling & bunging operation in parenteral units & for general dry-processing work in semiconductor industry etc. Provides a comfortable 'sit down' working position for the operators.
- Supplied complete with St. Steel Table Top, HEPA filters, Pre-Filters fully tested for PARTICLE COUNT with Standard Accessories as well as with following Salient Features:-
- 1. Automatic Device to switch off the air flow / Motor when door is closed.
- 2. Stand by Mode (Idling) increases filter life, avoids recleaning of working table.
- 3. UV /Fluorescent Light inter Lock : either UV Tube will glow or Fluorescent tube will glow for the users safety.

#### Construction:

- All Laminar Flow Clean Air cabinets are basically constructed out of thick Cold rolled MS Sheet, which is termite and insect proof, fire retardant and weather resistant. All exterior surfaces are covered with powder coated paint. Interior surfaces are epoxy painted. Work table is made of St. Steel & side panels of thick transparent plexiglass.
- These are also designed for very low vibration & Noise, and high illumination level. Construction Options : (I) S.S. Table in lieu of Sunmica top. (ii). Full body made of CRC Sheet duly powder coated. (iii) Full body made of S.S. 304/316.

#### 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 Particular Air) filters having efficiency rating as high as 99.99% with cold DOP and 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 designed velocity of 90 ft. min  $\pm$  20%.

#### Blower Motor Assembly :

- Duly balanced, direct drive motor blower units sized to provide adequate air flow volume over the entire surface of HEPA filter. Fitted with reputed make motor and operates with minimum noise level i.e. lower than 65 db on scale and Vibration less than 2.5  $\mu$ m.

#### Lighting :

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

#### Control Panel provided with:

- Microprocessor controller with LCD Display to control UV tube, light, Door interlock lock with life meter for HEPA filter, UV light & Alarm with Password protection.



- Built-in RFI and electrical noise filters eliminate interference with adjacent instrumentation. Intelligent micro-controller Control, Alarm, Monitoring System
  - Micro-controller-based control system supervises operation of all cabinet functions. The control panel is located on the center of the cabinet and angled down for easy access by the operator. Continuous monitoring of cabinet airflow is displayed on a bright, easy-to-read LCD panel. Two integrated, MEMS technology-based Air velocity sensor (Optional), true airflow velocity sensors provides an accurate airflow reading despite room temperature fluctuation. (Optional)
  - All electronic parts are contained inside a plug-and-play module that permits easy exchange if required.
  - Touch key pad data entry access.
  - Automatic start-up sequence will prepare the cabinet for normal operation and advise when safe conditions are established.
  - An administrator-controlled PIN (Personal Identification Number) can be set to restrict access to main menu.
  - The airflow alarm can be activated or deactivated depending on user preference and nature of Microprocessor based LCD display controller
  - Cock for gas connection
  - Power Requirement : 230 V 1 Phase, 50 Hz, Ac Supply.
- #### Spare / optional Accessories :
- Satin finish S.S. Table Top (in lieu of Sunmica Top).
  - Transparent front door.
  - Static pressure inclined manometer.
  - Built in UV Germicidal light.
  - Cock for gas, air or vacuum line.
  - Stainless Steel 304/316 body of top chamber, duly polished, available at extra cost.
  - For IVF Applications - Heated table (37°C) and with Digital Temp. Controller.
  - Particle dust count validation at site after installation, at extra cost.
  - HEPA Filter & Pre-Filter

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Available in following models : Model	VL-22	VL-32	VL-42	VL-62	VL-82
Working Area	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'	8'x2'x2'
Size of HEPAfilter	2'x2'x6"	3'x2'x6"	4'x2'x6"	3'x2'x6"	4'x2'x2"
No. of HEPA filter (Supplied with main unit)	1	1	1	2	2
No. of Pre filter (Supplied with main unit)	1	2	2	3	4
Illumination	1 x 20W	1 x 20W	2 x40W	2 x40W	4x40W

## ✿ YORLAB<sup>®</sup> VERTICAL LAMINAR AIR FLOW CABINET Model No.: YSL / YSI-189A

### Specifications:

#### —Exhaust Model

- These vertical laminar flow cabinets are provided with 100% exhaust system, suitable for exhaust duct upto 6 ft., to throw the contaminated air from the work area into the atmosphere outside the room.
- A plenum is provided under the S.S. perforated working table, with exhaust system.
- The exhaust system works in tandem with the main air flow system.
- This vertical flow exhaust model is very useful for such applications where environment & personnel protection is required.
- HEPA filter & virus burn out can also be provided at the exhaust.
- The exhaust ducting & the exhaust system for exhaust duct above 6 ft. are also available.

### Optional Accessories :

- Transparent front door
- Static Pressure. Inclined Manometer
- Built in U.V. Germicidal light
- Cock for gas, air, or vacuum line.
- Exhaust system suitable for duct above 6 ft.
- Exhaust ducting.
- Cold rolled M.S. Sheet body duly powder coated, available at extra cost.
- Stainless Steel body duly polished, available at extra cost.
- Particle dust count validation at site after installation, at extra cost.



### Spares Accessories :

- HEPA Filter
- Pre Filter