

YORLAB[®] HORIZONTAL LAMINAR AIR FLOW CABINET **Model No.: YSL / YSI-188**

Specifications:

- YORLAB offers a comprehensive range of high performance Horizontal, Laminar Flow Clean Air Cabinets. Modular construction, combining aesthetic appeal with functional utility and efficiency. These are designed to meet Class 100 requirements and per US Federal Standard 209 E, with in work zone. Ideal for microbiological manipulations, sterility testing, research work & for general dry-processing work in semiconductor industry etc. Provides a comfortable 'sit down' working position for the operators.

Salient Features :

- Automatic device to switch of the air flow / Motor when door is close. Stand by mode (Idling) increases filter life, avoids recleaning of working table.
- 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 constructed out of CRC sheet duly power coated, which is termite and insect proof, fire retardant and weather resistant.
- All exterior surfaces are covered with powder coating paint Interior surfaces are also epoxy painted. Work table is made of mica top / St.Steel 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 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 worktable 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 lower than 65 db on 'A scale and Vibration less than 2.5 μ m rms.
- **Lighting :** Work area properly illuminated by diffused, glare free fluorescent light providing 800 LUX, or as per requirement.

Control Panel :

- 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.
- 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

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Spare / Optional Accessories :

- Satin finish S.S. Table Top (in lieu of Formica Top)
- Transparent front door
- Static Pressure.
- Inclined Manometer
- Built in U.V. Germicidal light
- Cock for gas, air or vacuum line
- Cold rolled MS Sheet body duly powder coated.
- Stainless steel body duly polished.
- Particle dust count validation at site after installation.
- HEPA Filter
- Pre Filter

- Fully stainless steel option shown is available for all the models.

Available in following models :

Model	HL-22	HL-32	HL-42	HL-62	HL-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	1	1	1	2	2
(Supplied with main unit)					
No. of Pre filter	1	2	2	3	4
(Supplied with main unit)					
Illumination	1 x20W	1 x20W	2x40W	2x40W	4x40W

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Model No.: YSL / YSI-188A

- Table Top Model
- Other details specification as YSL / YSI-188