

BIO SAFETY CABINET CLASS III



Maximum Containment Design

- Completely sealed cabinet with air-tight construction ensuring zero exposure to the operator or environment.

Glove Port Operation

- Manipulation of materials inside the cabinet is done through attached rubber gloves, preventing direct contact.

KEY FEATURES

- **Supply air** is HEPA-filtered to protect the work area.
- **Exhaust air** passes through **two HEPA filters in series** (or HEPA + incineration) for absolute environmental protection.
- **Negative Pressure Operation:**
- Maintained at negative pressure to prevent leakage of any contaminated air to the laboratory.

Construction:

- Fabricated from stainless steel (SS 304/316) with fully welded joints and rounded corners for easy cleaning and sterilization.

Airlock or Pass-Through System:

- Includes pass box for safe transfer of materials in and out of the cabinet.

Decontamination System:

- Cabinet can be gas sterilized (formaldehyde, chlorine dioxide, or hydrogen peroxide vapor) before maintenance or filter change.

Front Viewing Window:

- Made of toughened , allowing clear visibility while maintaining a sealed environment.

Lighting and Ergonomics:

- Fluorescent/LED lighting with glare-free illumination inside the work zone for optimal visibility.

Alarms and Controls:

- Continuous pressure monitoring system Alarms for airflow failure, filter clogging, or glove leaks

TECHNICAL MATRIX

Model No	LEN series 808A	LEN Series 808B	LEN series 808C	LEN series 808D
Inner Size (WxDxH)	2' x 2' x 2'	3' x 2' x 2'	4' x 2' x 2'	6' x 2' x 2'
Working Table Size	2' x 2'	3' x 2'	4' x 2'	6' x 2'
HEPA Filter Size	2' x 2' x 6"	3' x 2' x 6"	4' x 2' x 6"	3' x 2' x 6" 2 nos
No. of Motor/Blower	1	1	1	1
Illumination	1 x 40 w	1 x 40 w	2 x 40 w	2 x 40 w
MOC	MS duly Powder Coated or Stainless Steel (SS-304)			
Work Table	Stainless Steel (SS-304 grade)			
Door	Sliding Sash Door			
Main Filter	HEPA Filter (99.97% efficient at 0.3 micron particles)			
Pre-Filter	High efficiency pre-filter (Washable)			
Sterilization	By U. V. Germicidal Tube in work area			
Maghenlic gauge	Static pressure analogue type. 0-50 mm			
Sliding Sash	Counter balanced door for effortless operation			
Noise Level	Less than 70 db			
Standard Accessory	Gas/Air cock and Multipoint 15/5 Amp. electric socket			
Electric Supply	AC 230V, 50/60Hz			

OPTIONAL ADD ONS

- LCD without sensor having On/ Off mains , On/Off UV light, On/Off blower , On/Off Fluroscent light
- LCD with sensor Based controller
 - Alarm & display for chocked filters
 - Display of real time performance data such as air velocities
 - Hour of operation
 - Filters status in percentage
 - Safe/Unsafe window position
 - U.V light indicator and activation of with timer
 - Fluorescent light activation stoppage/ reduction in flow velocity on closing of sash.
 - The microprocessor based cabinet should use to display the inflow air velocities in real time on an LED/LCD display.
- Motorized Door
- Coving Corners/ Lab Stool / Digital Maghenlic gauge / Hand Rest/ Foot Rest / Tray for spillages
- Built-in pass box for sterile transfer.