

## BIO SAFETY CABINET CLASS II Type A2



### PERFORMANCE

- **Containment:** Protects operator, environment, and product.
- **Air Velocity:** Inflow velocity ~0.5 m/s (100 fpm) at the front opening.
- **Clean Air Work Zone:** ISO Class 5 (Class 100) conditions inside work area.
- **Continuous Operation:** Can operate for long hours without contamination risk.

### APPLICATIONS

- **Microbiology Labs** – For culturing and handling bacteria, viruses, fungi.
- **Tissue Culture Labs** – Protects both samples and operator from contamination.
- **Pharmaceutical & Biotech Labs** – Sterile handling of drugs, vaccines, and R&D sample.
- **Hospitals & Diagnostic Labs** – Handling clinical specimens (blood, urine, swabs).
- **Food & Agriculture Labs** – Safe handling of microbial samples.
- **Research Institutions** – DNA/RNA work, molecular biology experiments.
- **Animal Research Labs** – Handling infectious or zoonotic agents.

### KEY FEATURES

#### Airflow Pattern

- 70% of air is recirculated through HEPA filters back into the cabinet.
- 30% of air is exhausted through HEPA filtration into the room.
- Provides both product and personnel protection.

#### HEPA/ULPA Filtration

- 99.97% efficiency for particles  $\geq 0.3 \mu\text{m}$ .
- Ensures a sterile working environment.

#### Front Access Opening

- Inflow air prevents contaminants from escaping.
- User works through a sash window with proper arm-rest support.
- Equipped with UV sterilization, airflow monitor, and safety alarms

## 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 Fluorescent 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