

BIO SAFETY CABINET CLASS-II TYPE B2



KEY FEATURES

0% air recirculate and 100% Exhaust Air

- No recirculation inside the cabinet all air is discharged outside through HEPA filters

Triple Protection

- Protects personnel, product, and environment from exposure to hazardous agents.

Suitable for Hazardous Chemicals & Radionuclides

- Safely handles volatile toxic chemicals, radionuclides, and infectious microorganisms.

Negative Pressure Design

- Cabinet maintains negative pressure around contaminated areas to prevent Leakage.

HEPA / ULPA Filtration

- Incoming and outgoing air passes through high-efficiency particulate filters, ensuring sterile conditions.

Exhaust Connection to Building System

- Must be hard ducted to an external exhaust system (cannot be recirculated into the lab).

NSF/EN Certified Safety Standards

- Designed and validated according to international biosafety standards (NSF 49, EN 12469).

Alarms & Safety Interlocks

- Equipped with airflow/pressure sensors, alarms, and interlocks for user safety.

UV & Fluorescent Lighting

- UV light for surface sterilization and fluorescent/LED lighting for clear workspace visibility.

MAJOR APPLICATIONS

1. Microbiology & Infectious Disease Research

- Safe handling of pathogenic bacteria, viruses, fungi, and parasites.
- Used in BSL-2 and BSL-3 labs where high-risk microorganisms are studied.

2. Molecular Biology & Genetic Engineering

- Protects DNA/RNA work from contamination.

3. Cell & Tissue Culture

- Prevents contamination during mammalian, plant, and microbial cell culture.

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