

BIOSAFETY CABINET (S.S. & M.S.)

Bio-Safety cabinets, also known as biological safety cabinets, are enclosed, ventilated laboratory workspace areas designed to protect the user and surrounding environment from pathogens. All exhaust air is HEPA filtered to remove hazardous agents such as viruses and bacteria. Bio-safety cabinets are used in many laboratories including clinical and research labs. We manufacture top class Bio-Safety Cabinet of standard & customized sizes.

Specification

Specification	Detail
Construction	SS 304 / SS 316 or combination of both
Filtration	1st Stage - Pre Filter with efficiency of 85% down to 10 micron 2nd Stage - HEPA Filter with efficiency of 99.999% down to 0.3 micron at supply/exhaust position return air filter 3rd Stage - Fine Filter with efficiency of 95% down to 5 micron
Motor Blower	Dynamically balanced with suitable ratings & suspension arrangement
Electrical Accessories	LED Lights 5/15 Amp. switch socket ON/OFF Switch Digital Pressure Gauge
Air Quality	ISO Class 5 (ISO 14644-1-1999)
Velocity	0.45 +/- 0.05 mps
Air Flow Direction	Vertical re-circulatory
Noise	Less than 67dB
Optional Features	Audio Visual alarm indicating HEPA filter condition Flame proof Fittings

Note: Choice of cabinet depends on the level of protection needed for the laboratory worker and the sample of interest.



ECONOMIC MODEL



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BIOSAFETY CABINET (S.S. & M.S.) CLASS-II TYPE A2/B2

- These Biological Safety Cabinets are made of Stainless Steel 304 Grade.
- These Biological Safety Cabinets are Class II/Type 2 and are designed for universities, research laboratories, pharmacies and pharmaceutical companies to protect both users and procedures from contamination when working with biological fields.

How it Works: Minimum airflow velocity is 100 fpm (0.51 m/s) through face opening. HEPA filtered downflow air is a portion of the mixed downflow and inflow air from a common exhaust plenum. All contaminated ducts and plenums are under the negative pressure.

Features

- Class II Design Safety: Personal, product and environmental protection.
- Safety: HEPA filtration.

Protection

- **Personal Protection:** Protects personnel from potentially harmful agents used inside the cabinet.
- **Product Protection:** Protects the research materials/product/experiment from contaminants.
- **Environmental Protection:** Protects the environment from research material/contaminants generated inside the cabinet.



STANDARD MODEL

BIOSAFETY CABINET (S.S. & M.S.) CLASS-II TYPE A2/B2

- Construction: SS 304, 0.6" gauge; 4' × 2' × 2' size.
- HEPA Filtration: 0.3 micron, 99.97% efficiency, 100% exhaust.
- Work Table: Detachable for easy cleaning.
- Gas Tap: Modular gas tap provided.
- Controller: LCD display with intelligent microprocessor control.
- Base Table: Detachable/portable design.
- Door: SS channels on both sides for smooth movement.
- Airflow: 0.1–4.0 m/s (20–800 fpm).
- Monitoring: Alarm and monitoring-based control system.
- Noise Level: Less than 65 dB.
- Additional: Touch data entry and built-in RFI/electrical noise filters.



DELUX MODEL

APPLICATION/USES

- Pharmaceutical Industry
- Chemical Research Laboratory
- Electronic Industry
- Semi-Conductor Production
- Food Processing Industry

Model Comparison

Specification	A	B	C	D
Dimensions (Feet)	2' X 2' X 2'	3' X 2' X 2'	4' X 2' X 2'	6' X 2' X 2'
Size of HEPA Filter	2' X 2' X 6"	3' X 2' X 6"	4' X 2' X 6"	3' X 2' X 6"
No. of HEPA Filter	1	1	1	2
Illumination	1 x 20W	1 x 20W	1 x 40W	2 x 40W

Cabinet Classification

Classification	Description
Class I	Protection for the user and surrounding environment, but no protection for the sample being tested.
Class II	<p>Protection for the user, environment and sample.</p> <p>Type A1/A2: Re-circulate air back into the laboratory. A1 and A2 are similar but differentiated by the minimum average inflow velocity (FPM).</p> <p>Type B1/B2: B1 re-circulates a percentage of air into the laboratory. B2 cabinets are entirely hard-ducted.</p>
Class III	Also known as glove boxes, provides maximum protection. The enclosure is gas-tight, and all materials enter and leave through a dunk tank or double-door autoclave.

Available Model

Model No.	Instrument	Class	Type	Material	Size
LABWAN-BSC2-A2-32-SS	BioSafety Cabinet	Class II	A2	Fully SS 304	3 × 2 × 2 ft
LABWAN-BSC2-A2-32-SSMS	BioSafety Cabinet	Class II	A2	Inner SS / Outer MS	3 × 2 × 2 ft
LABWAN-BSC2-A2-42-SS	BioSafety Cabinet	Class II	A2	Fully SS 304	4 × 2 × 2 ft
LABWAN-BSC2-A2-42-SSMS	BioSafety Cabinet	Class II	A2	Inner SS / Outer MS	4 × 2 × 2 ft
LABWAN-BSC2-A2-63-SSMS	BioSafety Cabinet	Class II	A2	Inner SS / Outer MS	6 × 3 × 3 ft
LABWAN-BSC2-B2-32-SS	BioSafety Cabinet	Class II	B2	Fully SS 304	3 × 2 × 2 ft
LABWAN-BSC2-B2-32-SSMS	BioSafety Cabinet	Class II	B2	Inner SS / Outer MS	3 × 2 × 2 ft
LABWAN-BSC2-B2-42-SS	BioSafety Cabinet	Class II	B2	Fully SS 304	4 × 2 × 2 ft
LABWAN-BSC2-B2-42-SSMS	BioSafety Cabinet	Class II	B2	Inner SS / Outer MS	4 × 2 × 2 ft