

Bio Safety Cabinets



We offer Bio hazard safety cabinets which are ideal for microbiological agents for biological safety level 1, 2 and 3. It offers protection to the operator and the surroundings from bio hazards. These are available in the following models:

- Class I Biosafety Cabinet
- Class II Biosafety Cabinet A1 & A2 type (70% recirculation and the 30% Exhaust)
- Class II Biosafety Cabinet B1 type (70% recirculation and the 30% Exhaust)
- Class II Biosafety Cabinet B2 type (0% recirculation and the 100% Exhaust)
- Class III Biosafety Cabinet

These have a gas tight chamber operated through sealed gloves that offers barricade between the worker and the hazardous material. These can be constructed in the following material:

- Mild Steel Powder coated finish
- Stainless Steel with Stain finish
- Wooden laminated finish

Technical Specifications:

- Cleanliness Level : Class 100 (ISO 5)
- Particle Retention : 0.3 micron & above
- Downflow Velocity : 90 FPM \pm 20 %
- Standard : US Federal Standard 209E (ISO 14644-1)
- Noise Level : 65 dB in "A" Scale
- Air Balancing : Partly Re-circulated and 100% air exhausted with incineration
- Illumination: 750 to 800 lumen
- Power Supply : 220V single phase 50 Hz.

APPLICATION: Most suitable for bacteriological, toxicology, where the presence of highly air borne particle, bacteria and viral need to be controlled to provide clean working conditions.

AVAILABLE IN SIZES:

Model	ATS-BS-900	ATS-BS-1200	ATS-BS-1800
Working Area	3' x 2'x 2'	4' x 2' x 2'	6' x 2' x2'
Material of Construction	Wodden	Wodden	Wodden
Material of Construction	GI with Powder Coated	GI with Powder Coated	GI with Powder Coated
Material of Construction	SS with satin finish	SS with satin finish	SS with satin finish
Materials of Construction	SS with satin finish GR-304/316	SS with satin finish GR-304/316	SS with satin finish GR-304/316

The class I bio safety cabinets is an open-front design and works on the principle of negative pressure generations. The exhausted air is filtered through high efficiency particulate air filter (HEPA) filter. This Class I bio safety cabinet is ideal to be used where the Personnel and environmental protection is key, but not product Protection.



Bio safety Cabinets Class - II is classified as

- Bio safety Cabinets Class - II Type A1
- Bio safety Cabinets Class - II Type A2
- Bio safety Cabinets Class - II Type B1
- Bio safety Cabinets Class - II Type B2

This Class II vertical laminar-flow biological cabinet is an open-front, ventilated cabinet. This cabinet provides a HEPA filtered, recirculated mass airflow within the work space. The exhaust air from the cabinet is also filtered by HEPA filters. This type of bio safety cabinets provides excellent protection to users, products and the environment. While HEPA filters are effective for trapping particulates and infectious agents, these filters will not capture volatile chemicals or gases.



Bio safety cabinet class III is a totally closed compact and purely ventilated enclosure having an air tight construction. All the experiments/procedures are performed through rubber gloves, which are provided at the front of the unit. The primary feature of class III bio safety cabinets is that they maintain negative pressure of 0.5" or more while in operation. The supplies of fresh air are taken inside the enclosure through specially designed high efficiency perfect air filters (HEPA). The exhausted air of the unit is passed through two modules of HEPA filters, which are strategically placed in series. The air passes through the two filters before being discharged in the environment. The exhaust fan for the Class III cabinet is generally separate from the exhaust fans of the facility's ventilation system. These types of bio safety cabinet have complete self sustained exhaust system.

Quesst International