

Biosafety Cabinet

Your Ultimate Solution for Maximum Protection



Biosafety Cabinets (BSCs) are enclosed workspaces that consist of forced air circulation through HEPA filters.

The primary purpose of biosafety cabinets is to protect the laboratory personnel and the environment from the pathogenic microorganism as aerosols might be formed during the processing of such microorganisms.

Biosafety cabinet provides protection to the sample, the operating personnel and the environment.



Specifications of Shreeyash make Biosafety Cabinet:

This unique & Innovative Bio Safety cabinet is an absolutely Compact & space saving device. Due to its modern technology, it can be easily placed on a working table. It does not require Huge Space or a sepearte room as the contemporary ones. Also it does not require any plumbing or ducting of the exhaust air.

- The BSC is Fabricated in a steel body with smooth powder coating.
- All internal parts of the Airflow path system are manufactured in 304 grade Stainless Steel for ease of cleaning & disinfection.
- The cabinet is enclosed in a steel frame with transparent acrylic of 6 mm thickness from all 4 sides for ease of viewing of the procedure.
- The stainless steel tray on which the samples are placed for procedure, is easily withdrawable as & when required for operator's convenience.
- A transparent drop down front access door is provided.
- It is provided with Two Hand ports for easy access to the sample when one does require limited access to the sample.
- It comprises a unique 4 way air distribution system that ensures that the forced & filtered air reaches all the corners of the cabinet, thus ensuring absolute safety of the sample.
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- The air from the bio safety cabinet is exhausted through a separate suction fan & through a separate duct.

- The environmental air enters the Bio safety cabinet through the suction fan. It then passes through a Prefilter, HEPA filter & an UV light & is then diverted to all the four corners of the cabinets through the baffles provided in the 4 way air distributor.
- The exhaust Air is passed through an Electrostatic Perspirator (ESP) that kills the bacteria/viruses with a high voltage of electricity generated using Pulse electric field technology. Due to which corona's form in the ESP.
- When the air passes between this ESP, all types of germs & bacterias are killed & then settle down on the non charged (earthed) plate which is inside the ESP.
- After this, the exhaust air is propelled to the Exhaust (second) HEPA filter & is then vented to the atmosphere.
- Mediral System's BSC provides maximum protection to the operator, the environment, and the sample against the high-risk group pathogenic organisms.
- A special observation lamp is automatically glown when the unit is put ON to brighten up the meticulous procedures.
- The cabinet incorporates a time totalizer to indicate the used hours of the device.

Following Indication & controls are provided on the BSC.
Mains On, ESP ON, Procedure Lamp, UV Tube ON.

Following features can be provided at an Extra Cost:

- 1) Digital displays indicating various parameters.
- 2) Trolley for above BSF

Area of Use: Pathological Laboratories, ICU, NICU, Human Milk Bank, Pharma Companies & in every area where cultures are to be treated under a clean environment.

Life changes so do concepts, ideas hence for constant up gradation we reserve the right to change the specifications & features without prior notice to ensure harmony between man & the machine.



Innovated by

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