



BIO SAFETY CABINET



Manufacturer of
Life Science Research
Equipments



A Biological Safety Cabinet (BSC), also known as a Biosafety Cabinet is mainly used for handling pathogenic biological samples or for applications that require a sterile work zone. EPS Biological safety cabinets are enclosed cabinets designed to protect the product, Operator and the surrounding environment when working with contaminated materials and or pathogens. Its primary purpose is bio-containment; hence all exhaust air is HEPA filtered. Bio-safety cabinets have several different types according to the required degree of bio-containment.



LCD Controller (Optional)

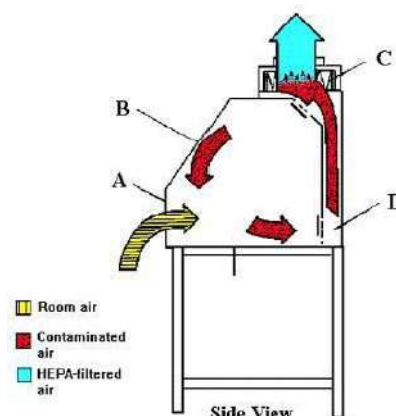


Types of Bio safety Cabinets:-

CLASS	Recirculation of Air (%)	Exhaust Air (%)	Exhaust Alternatives	Inflow Velocity (Ft/m)
Class I	0	100	Inside Room/ Hard Duct	75ft/m
Class II-A1	70	30	Inside Room/ Hard Duct	75ft/m
Class II-A2	70	30	Inside Room/ Hard Duct	100ft/m
Class II-B1	30	70	Hard Duct only	100ft/m
Class II-B2	0	100	Hard Duct only	100ft/m
CLASS-III	0	100	Inside Room/ Hard Duct	Closed

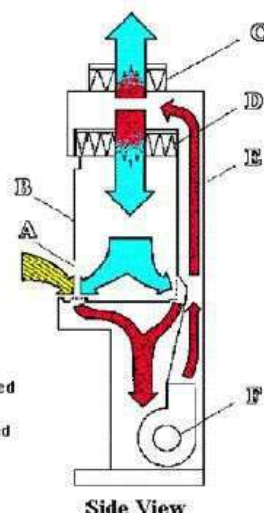
Biosafety Cabinet Class -I

The Class I biosafety cabinet provides personnel and environmental protection, but no product protection. It has similar turbulent air flow as a chemical fume hood, but has a HEPA filter in the exhaust system to provide containment and environmental protection. This older class of biosafety cabinet is rarely seen in biomedical and microbiological laboratories.



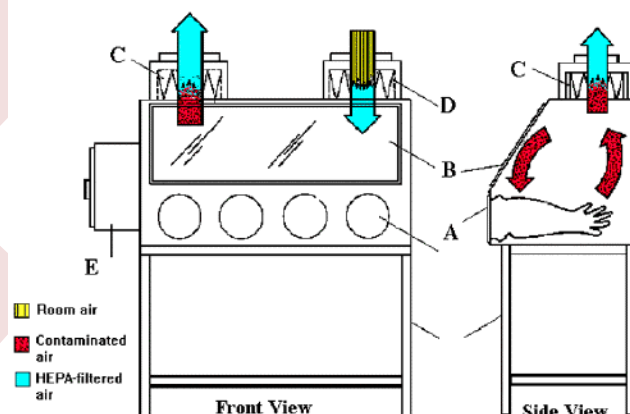
Biosafety Cabinet Class –II

The Class II biosafety cabinet provides protection to the user, the experimental material and the environment. The Class II biological safety cabinet is the type most commonly used in biomedical and microbiological laboratories. Air flow is drawn from the room around the operator into the front grille of the cabinet, which provides personnel protection. In addition, the downward laminar flow of HEPA-filtered air provides protection for experimental material inside the cabinet. Because cabinet air has passed through the exhaust HEPA filter, it is contaminant-free, providing environmental protection, and may be recirculated back into the laboratory (Class II Type A) or ducted out of the building (Class II Type B).



Biosafety Cabinet Class –III

The Class III biological safety cabinet is most suitable for work with biohazardous agents requiring high containment (biosafety level 3 or 4). The Class III cabinet is completely enclosed; HEPA filter-ventilated cabinet fitted with glove ports and decontamination capabilities for entry and exit of material. It offers the highest degree of personnel and environmental protection from infectious aerosols.



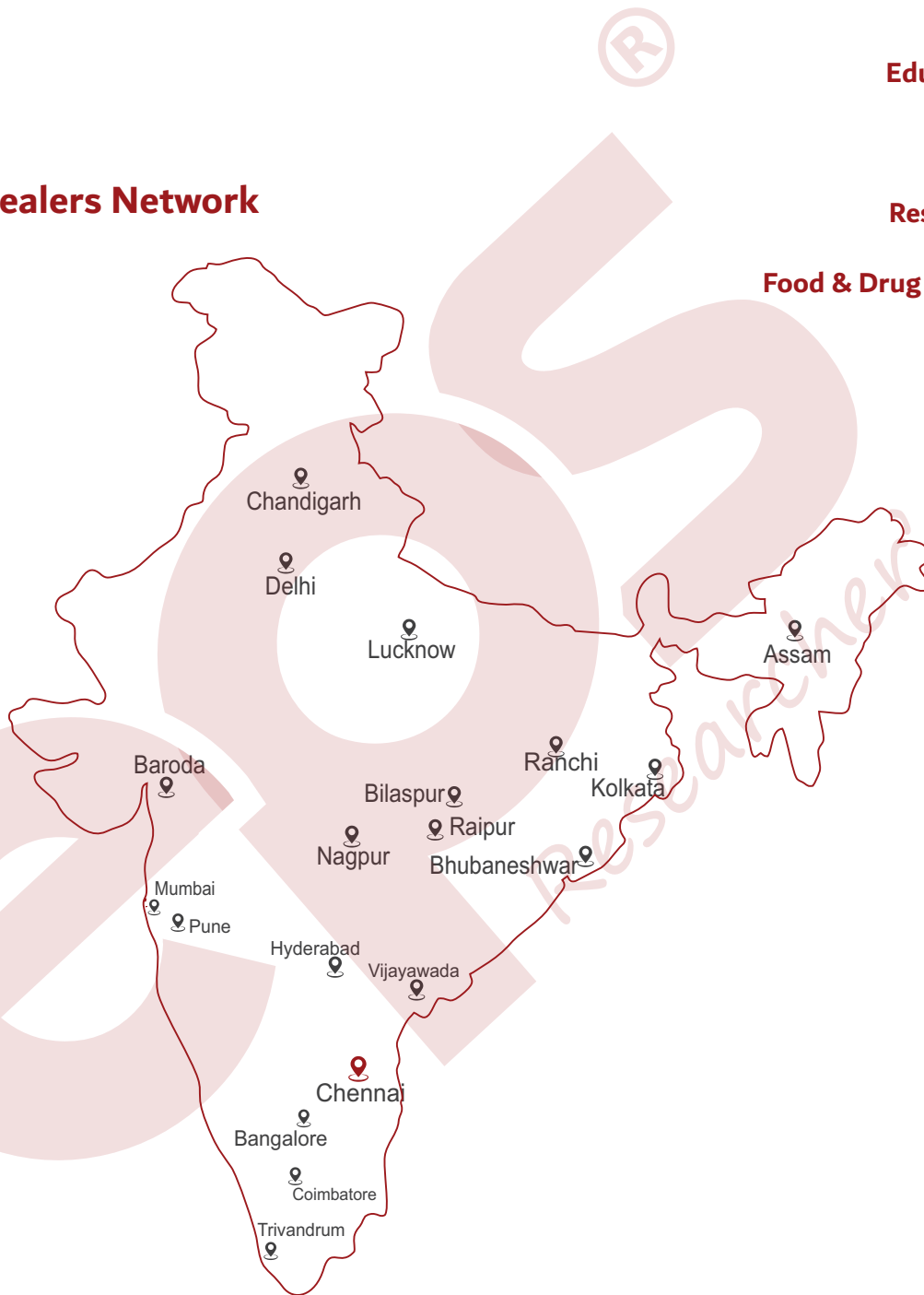
Technical Specifications & Ordering Information:

CLASS	Working Dimension in (Feet)	Overall Dimension in (mm)	MOC Inflow Velocity (Ft/m)		BSC – CLASS Selection
			Inner	Outer	
EPS/BSC-1200	4' X2'X2'	1280X780X1960	SS	MS	CLASS – I CLASS II A1 CLASS II A2 CLASS II B1 CLASS II B2 CLASS III
EPS/BSC-900	3' X2'X2'	980X780X1960	SS	MS	
EPS/BSC-600	2' X 2'X2'	680X780X1960	SS	MS	
EPS/BSC-1200-S	4' X 2'X2'	1280X780X1960	SS	SS	
EPS/BSC-900-S	3' X2'X2'	980X780X1960	SS	SS	
EPS/BSC-600-S	2' X2'X2'	680X780X1960	SS	SS	

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