BIO SAFE –BIO LOGICAL SAFETY CABINET

These ar designed to use simultaneous primary biological and chemical containment. The recirculation of cabinet air through a second HEPA filter offers highest level of cleanlinesss.

The bio safety cabinets are made with good quality water proof marine plywood, outer surface are covered with laminated sheet, all the interior joints are sealed with good quality adhesives, and made the cabinet leak proof. All the internal surfaces are painted with synthetic rubber paint, made termite proof and weather resistant.

Air flow: vertical CLASS I

Cleanliness class 100 with an efficiency 99.9%

Particle retension 0.3 microns and above.

HEPA filter quality compliance to FED: STD: 209 E and EN 779

Prefilter quality compliance to IS 7613

This includes standard accessories like inclined static pressure manometer, HEPA filter for cabinet (deep pleat type), pre filter , on UV germicidal light for the work area, one cock for gas/air. Satin finished stainless steel perforated table top. Suitable motor with blower assembly for air supply, suitable motor with blower assembly for exhaust. 2 m length PVC pipe of 6" die will be supplied for exhaust air vent out.

In compliance of its safety performance requirements and specifications of BSC is classified in different types. We undertake the fabrication of biosafety cabinets of following classifications:-

CLASS I Type B

CLASS II Type A, Class II Type B1, CLASS II Type B2

CLASS III

1) CLASS I:- USED FOR PERSONNEL + ENVIRONMENTAL PROTECTION
   100% Exhaust and a negative pressure created in the work chamber, air should not come out directly towards the operator. An air incinerator also recommended for the air out let to the environment protection.
2) CLASS II, Type A, USED FOR PRODUCT+ PERSONNEL + ENVIRONMENTAL PROTECTION, 2 HEPA filters have been used,

one for chamber and other for exhaust , 30% Exhaust and 70% Recycle of air occurred a negative pressure created in the work chamber . Air should not come out directly towards the operator. An air incinerator also recommended for the air outlet to the environment protection.

3) CLASS II Type B1
USED FOR PRODUCT + PRERSONNEL + Environmental Protection – 2 HEPA filters have been used one for chamber and other for exhaust 70% exdhaust and 30% Recycle of air occurred a negative pressure created in the work chamber. Air should not come out directly towards the operator. An air incinerator also recommended for the air outlet to the environment protection.

4) CLASS II type B2, USED FOR PRODUCT + PERSONNEL + ENVIRONMENTAL PROTECTION. 2 HEPA filters have been used one for chamber and other for exhaust. 100% exhaust and this is a total exhaust unit a negative pressure created in the work chamber. Air should not come out directly towards the operator . An air incinerator also recommended for the air outlet to the environment protection.

5) CLASS III Biological safety cabinet is designed for work with biosafety level 4 microbiological agents and provided maximum protection to the environment and the operator. It is a gas tight enclosure with a non opeining view window. Access for passage of materials in to the cabinet is through a double door pass through box . Exhaust air should be pass through a HEPA filter and an air incinerator must provided for the air out let to the environment protection. An independent exhaust unit provided exterior to the cabinet which keeps the cabinet a negative pressure. Air of long heavy duty gloves are provided to insert the hands in the cabinet.

Cat. No.	Working table size L X W X H in cm	Approx. external dimentions
PBSC - 2	60 x 60 x 60	660 x 750 x 2300
PBSC - 3	90 x 60 x 60	960 x 750 x 2300
PBSC - 4	120 x 60 x 60	1260 x 750 x 2300
PBSC - 5	150 x 60 x 60	1560 x 750 x 2300
PBSC - 6	180 x 60 x 60	1850 x 750 x 2300