

# BIOSAFETY CABINET CLASS II B2 IG-CIIB2 Series



**IGENE LABSERVE**

Innovative • Interactive • Intuitive

# SPECIFICATIONS

Biosafety Cabinets are specialized workstations widely used in clinical, pharmaceutical, life science and industrial laboratories where experiments need highly contaminant free environment. Also known as biological safety cabinets and biohazard safety cabinets, these are made in three different class types such as Class 1, Class 2 and Class 3; in which Class 2 is widely used in microbiology laboratories because it provides protection to both product as well as personal. It is biosafety level factor which decides which BSC should be used in laboratory. These cabinets are considered safer than other clean benches because such BSCs effectively eliminate risks to operator / staff, samples and the environment from pathogenic biological agents (PBA) and microorganisms responsible for spreading airborne infection.

## TYPES

We offer three types of class 2 biosafety cabinets are made. It is the type of work which decides which class 2 BSC should be used in laboratory. Below given the short description about all types we offer:

- ❖ Type A2: recirculate approximately 70% air and 30% exhaust
- ❖ Type B1: recirculate approximately 30% air and 70% exhaust
- ❖ Type B2: Does not recirculate but exhaust 100% air

## CONSTRUCTION

Our cabinets are ergonomically designed to provide long service life. Only thick metal sheets and pipes are used in construction so that you may get the finest and safest Biosafety Cabinet in the market today.

There are three different MOC used.

- ❖ Complete Stainless Steel 304 / 316
- ❖ Inner Stainless Steel, Outer Mild Steel
- ❖ Stainless Steel bench, rest mild Steel



## AIR CIRCULATION OF CLASS II B2

In order to minimize spread of airborne bacterial and viral organisms, the use of filter is crucial; therefore, we use 99.99% efficiency HEPA filters for particle size 0.3 microns in our biological class 2 type B2 safety cabinets. These air filters are of ISO 5/Class 100 quality. Inflow velocity remains approx. 105 fpm (0.5 m/sec) with 100% air exhaust through separate exhaust mechanism.

## STANDARD ACCESSORIES

Our Biosafety cabinets are fitted with fluorescent lights outside working zone. UV lamps are fitted inside working zone in such a way that the operator cannot see them directly. Microprocessor controlled mechanism allows UV on only when door is closed. Auto sensors facilitate to run blower after opening of door only. User can set warm time as per convenience which in turn will turn on the FL light only after set time and door open controlled by microprocessor. Electrical sockets are fitted to run any instrument under the working area; in addition, service fixtures for air, gas, vacuum and water are fitted on demand.

*We also manufacturer biosafety cabinets class 2 type A2*

## MICROPROCESSOR BASED PID CONTROLLER

- ❖ Automatic control of UV, Blower and LED light on sash movement.
- ❖ Large LCD Display with clear vision.
- ❖ External Socket control to avoid hand touch inside the chamber.
- ❖ Warm up timer option allows delay in switching on LED to clear internal air before working on opening of Sash to safe level.



# TECHNICAL SPECIFICATIONS

<b>Sizes Available</b>	2ft, 3ft, 4ft, 5ft and 6ft
<b>Construction</b>	SS 304 /316 / Powder coated MS or GI sheet
<b>Work top</b>	SS 304 /316
<b>Construction</b>	Double walled
<b>Controller</b>	Microprocessor PID controller Display of SV & PV
<b>Air filtration</b>	HEPA filter 99.99% efficiency
<b>Switches and indicators</b>	Microprocessor controlled switches for UV, Blower Motor, LED/FL Lamp with inbuilt pressure gauge and UV timer
<b>Air recirculation</b>	Does not recirculate but 100% air exhaust
<b>Average Airflow Velocity</b>	105 feet per min
<b>Fumigation</b>	In-built fumigation port (Optional)
<b>Noise level</b>	Less than 60 dB
<b>Electrical protection</b>	MCB & Fitting with earthing protection
<b>Standard Fittings</b>	UV germicidal lamp to cover the entire work surface. Mounted on a stand with levelling feet. Inbuilt pressure gauge. Fluorescent lamp /LED Lamp.
<b>Optional</b>	Digital display on pressure on HEPA. Sash Height Alarm on display. Movable stand. Virus Burnout unit. Service valves for gas and water. Arm Elbow rest. Digital display of real time inflow / down flow air velocities. Drain pan on work bench. Movable stand (wheels). Foot rest. Calibration certificates. HMI Controller.

# STANDARD SIZE/ DIMENSION

Model No.	Dimension (ft)	Dimension (mm)
IG- CIIB2222	2 x 2 x 2 ft	610 x 610 x 610 mm
IG-CIIB2322	3 x 2 x 2 ft	914 x 610 x 610 mm
IG-CIIB2422	4 x 2 x 2 ft	1219 x 610 x 610 mm
IG-CIIB2522	5 x 2 x 2 ft	1524 x 610 x 610 mm
IG-CIIB2622	6 x 2 x 2 ft	1829 x 610 x 610 mm

## AIRFLOW DIAGRAM OF CLASS II B2

