



IGENE LABSERVE

Innovative • Interactive • Intuitive

Biosafety Cabinet Class II B2



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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 is 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 99.95% 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 manufacture 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

Sizes Available	2ft, 3ft, 4ft, 5ft and 6 ft
Construction	SS 304 /316 / Powder coated MS or GI sheet
Work top	SS 304 /316
Construction	Double walled
Controller	Microprocessor PID controller Display of SV & PV
Air filtration	HEPA filter 99.95% efficiency
Switches and indicators	Microprocessor controlled switches for UV, Blower Motor, LED/FL Lamp with inbuilt pressure gauge and UV timer
Air recirculation	Does not recirculate but 100% air exhaust
Average Velocity Airflow	105 feet per min
Fumigation	In-built fumigation port (Optional)
Noise level	Less than 60 decibel
Electrical protection	MCB & Fitting with earthing protection
Standard Fittings	UV germicidal lamp to cover the entire work surface. Mounted on a stand with levelling feet Inbuilt pressure gauge Fluorescent lamp /LED Lamp
Standard functions	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





Optional

- 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

IG- CIIB2222	2 x 2 x 2	610 x 610 x 610
IG-CIIB2322	3 x 2 x 2	914 x 610 x 610
IG-CIIB2422	4 x 2 x 2	1219 x 610 x 610
IG-CIIB2522	5 x 2 x 2	1524 x 610 x 610
IG-CIIB2622	6 x 2 x 2	1829 x 610 x 610

Airflow Diagram of Class II B2

