



RECOMBINANT DNA BIOSCIENCES BIOSAFETY CABINET CLASS IIA2



Descriptions:

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

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 A2

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 A2 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. Filtration efficiency of ULPA filter 99.999% for 0.1 micron particles

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.



Technical Specifications:

Sizes Available	2ft, 3ft, 4ft, 5ft and 6 ft
Construction	SS 304 /316 / Powder coated MS or GI sheet/ Stainless steel 304 grade
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	recirculate approximately 70% air and 30% exhaust
Work top	SS 304 /316
Average Airflow Velocity	105 feet per min
Fumigation	In-built fumigation port (Optional)
Noise level	Less than 60 decibels
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
Average Airflow Velocity	105 feet per min
Fumigation	In-built fumigation port (Optional)

Standard Size/ Dimension

2013-222-0201	2 x 2 x 2	610 x 610 x 610
2013-322-0201	3 x 2 x 2	914 x 610 x 610
2013-422-0201	4 x 2 x 2	1219 x 610 x 610
2013-522-0201	5 x 2 x 2	1524 x 610 x 610
2013-622-0201	6 x 2 x 2	1829 x 610 x 610