# **Biological Safety Cabinet**



### **Bio-Safety Cabinet Class II**

Class II Bio-safety Cabinets are designed to provide protection to operator, environment and materials inside the workspace.

These Bio-safety Cabinets are utilized for containing low-to-moderate risk bio-hazardous materials.

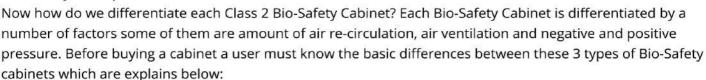
that re-circulate air providing required level of protection from microorganisms and aerosols. As these Bio-safety Cabinets are extensively used in drug preparation, chemotherapy preparation, clinical research, medical and pharmaceutical sectors, life science and industrial laboratories etc. it must follow relevant application specific standards..



A Bio-Safety Cabinet is called by several names in research industry; microbiological safety cabinet, Biological Safety Cabinet (Acronym: BSC) and Bio-Safety hood are such common names which are referred by microbiologists.

#### Types of Class 2 Bio-Safety Cabinet:

In order to meet varying research and clinical needs, Bio-Safety Cabinets are designed mostly in 3 types i.e. Type A2, Type B1, and Type B2. Regardless of type, each cabinet provides the same level of protection. According to international sanitation standards, there are exactly same pass and fail criteria for all of them.



#### **Bio-Safety Cabinet Class II Type A2:**

In this type of Class II BSC, approximately 70% of the HEPA filtered air is circulated through the cabinet, while 30% passes through an exhaust HEPA filter and is discharged.

#### **Bio-Safety Cabinet Class II Type B1:**

This Class II BSC, exhausts 60% - 70% of the HEPA filtered air, while 30% - 40% air is re-circulated inside workspace through HEPA filter.

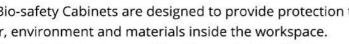
#### **Bio-Safety Cabinet Class II Type B2:**

It is total exhaust type BSC, no re-circulation inside workspace; blower exhausts 100% of the filtered air.









These Bio-safety Cabinets have downward airflow and HEPA filters





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### **Technical Parameters:**

MODEL NO	ULSB2-BSC2 G/S	ULSB2-BSC3 G/S	ULSB2-BSC4 G/S	ULSB2-BSC5 G/S	ULSB2-BSC6 G/S
Airflow Direction	2' x 2' x 2'	3' x 2' x 2'	4' x 2' x 2'	5' x 2' x 2'	6' x 2' x 2'
Working Side	2' x 3' x 7'	3' x 3' x 7'	4' x 3' x 7'	5' x 3' x 7'	6' x 3' x 7'
Inflow Velocity	105 fpm (0.53 m/s)				
Down flow Velocity	60 fpm (0.30 m/s)				
Operate environment	Environment temp.10-30°C,Relative Humidity under 70% no obvious vibration and dust				
Noise Level	<65dBA				
Filter	HEPA filter 99.999% efficient (ULPA - Optional)				
Particle retention	≤ 0.3 microns				
Light	Fluorescent light				
Light Intensity (LX)	≥650 Lux				
Controller	Microprocessor controller w/ LCD digital display				
<b>Body Construction</b>	Powder Coated MS / SS304 / SS316				
Table Construction	Stainless Steel 304				
Front Door	Frameless auto sliding glass door				
Pressure Gauge	Magnehelic gauge				
Alarm	Audio / visual sash alarm				
Blower assembly	1/3 HP, Single Phase, 1440 RPM motor, Capacity 1000 CFM, Pressure 30 mm WG				
Exhaust assembly	300 CFM, ducting by PVC pipe with rain guard - Dia. 150mm				
Clean Rating	International standard ISO14644.1 CLASS 5(US209E,CLASS 100)				
Certifications	NSF/ANSI 49 (Optional)				
Pressure Difference Range (Pa)	Environment temp.10-30°C,Relative Humidity under 70% no obvious vibration and dust				
Power Supply	Single-phase voltage source AC220±10V, 50/60Hz				
Optional Accessories	Caste Tempo Face \ Airflo Audio Thern Raise Spare Vacuu	Filter r wheels erature indicator Velocity Meter w Indicator / Visual alarm nal Anemometer d airflow grill UV lamp m Tap st (LH / RH / Top			

**Telescoping Base Stand** 













