

# BIO SAFETY CABINET



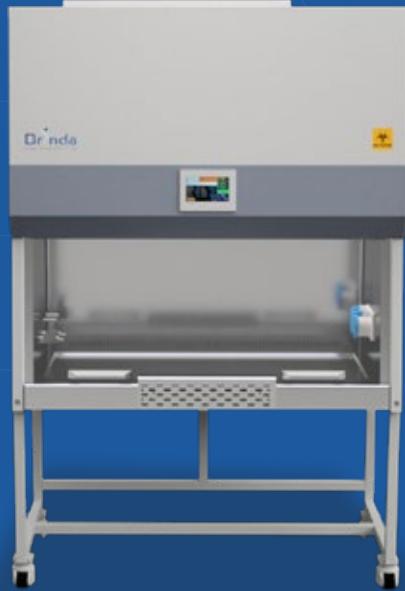
**Brinda**  
PHARMA TECHNOLOGIES PVT. LTD.

**TÜV** INDIA  
ISO 9001: 2015 Certified

Indian Pharma Machinery  
Manufacturers Association  
**IPMMA**

## ► INTRODUCTION

Introducing the Bio Safety Cabinet by Brinda Pharma Technologies, a revolutionary solution designed to provide a safe and controlled working environment for handling hazardous materials. Our Bio Safety Cabinet offers superior protection to operators, samples, and the surrounding environment, ensuring maximum safety and efficiency. With advanced airflow systems and HEPA filters, our cabinets maintain a sterile and particle-free atmosphere, preventing cross-contamination and ensuring the integrity of your work. The ergonomic design and user-friendly interface make operation easy and comfortable. Our Bio Safety Cabinets are available in various configurations, including Class I, II, and III, to meet your specific application needs. Trust in the quality and reliability of Brinda Pharma Technologies Bio Safety Cabinet for all your critical containment requirements. Experience peace of mind and enhanced productivity with our cutting-edge Bio Safety Cabinet.



## ► KEY FEATURES

### Three Levels of Containment

- Class I: Provides personnel and environmental protection, suitable for low to moderate risk biological agents.
- Class II: Offers personnel, product, and environmental protection, ideal for working with microbiological agents.
- Class III: Provides the highest level of protection, designed for handling highly infectious and hazardous materials.

### HEPA Filtration

Integrated high-efficiency particulate air (HEPA) filters ensure the removal of airborne contaminants, maintaining a sterile environment.

### Airflow Control

Our BSCs feature adjustable airflow systems, allowing users to optimize the direction and speed of air movement for maximum safety and efficiency.

### Ergonomic Design

The BSCs are ergonomically designed for user comfort, with features such as adjustable height, footrest, and armrests.

### UV Sterilization

UV light option for sterilization of the work area, providing an additional layer of decontamination.

### Effortless Cleaning and Maintenance

Ensure easy UV, LED, and HEPA replacement access and the removable tray simplifies the cleaning process, while the drain point enables swift disposal of accumulated debris, enhancing overall convenience.

## ► APPLICATIONS

Microbiological Research

Pharmaceutical Manufacturing

Clinical Laboratories

Animal Tissue Culture

Genetic Engineering

Containment Facilities

## ► STANDARD SIZE CHART

PARAMETER		SPECIFICATION	
MATERIAL OF CONSTRUCTION		INTERNAL	EXTERNAL
		SS 304	G.I Powder Coated
		SS 304	SS 304
DIMENSIONS		Standard & Customized sizes	
FILTRATION SYSTEM		HEPA Filter (99.999% Efficiency)	
NOISE LEVEL		<85 dB	
UV DISINFECTION		UV light with hour meter	
LIGHTING		LED Lights	
PRESSURE MONITORING		Megnahelic Or Digital Differential Pressure Gauge with alarm feature (Optional)	
BLOWER		Statically & Dynamically Balanced Blower Optional EC Blower	
ALARM SYSTEM		Audio – Visual Alarms	
CONTROL SYSTEM		Microprocessor Based control system with control display or HMI (Optional)	
POWER SUPPLY		220-240 VAC 50 Hz	110-130 VAC 50/60 Hz

PARAMETERS	UV Light	UV Hour Meter	Pressure Gauge	Pressure Transmitter	Velocity Sensor	Humidity Sensor	Temperature Sensor	Auto Sash
MICRO-PROCESSOR SYSTEM (MPS)	✓	✓	✓	✗	✗	✗	✗	✗
HMI – TOUCHSCREEN SYSTEM (HMI)	✓	✓	✗	✓	✓	✓	✓	✓

### CHOICE OF MATERIAL CONFIGURATION

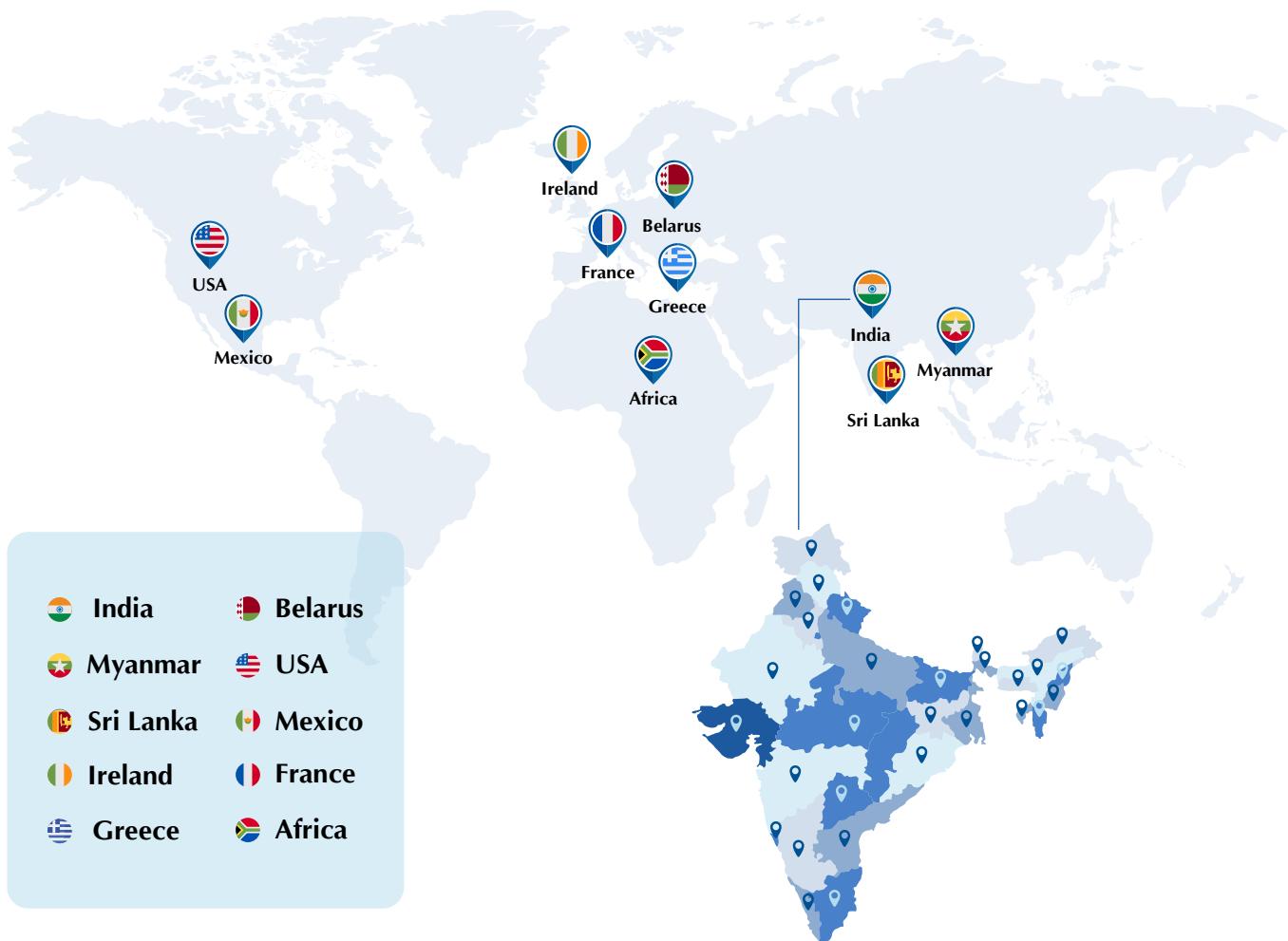
	Internal (Contact Parts)	External (Non-Contact Parts)
Config-1	SS 304	GIPC
Config-2	SS 304	SS 304
Config-3	SS 316	SS 304

MODELS	INTERNAL SIZE			EXTERNAL SIZE					
				STANDALONE			BENCH TOP		
	W	D	H	W	D	H	W	D	H
BSC-3	965 mm 3.2'	650 mm 2.1'	660 mm 2.2'	1115 mm 3.7'	750 mm 2.5'	2160 mm 7.1'	1115 mm 3.7'	750 mm 2.5'	1490 mm 4.9'
BSC-4	1270 mm 4.2'	650 mm 2.1'	660 mm 2.2'	1420 mm 4.7'	750 mm 2.5'	2160 mm 7.1'	1420 mm 4.7'	750 mm 2.5'	1490 mm 4.9'
BSC-5	1575 mm 5.2'	650 mm 2.1'	660 mm 2.2'	1725 mm 5.7'	750 mm 2.5'	2160 mm 7.1'	1725 mm 5.7'	750 mm 2.5'	1490 mm 4.9'
BSC-6	1870 mm 6.1'	650 mm 2.1'	660 mm 2.2'	2020 mm 6.6'	750 mm 2.5'	2160 mm 7.1'	2020 mm 6.6'	750 mm 2.5'	1490 mm 4.9'

BIO SAFETY CABINET FEATURES & PARAMETERS						
CLASS I	Protection	Personal	✓			
		Environmental	✓			
		Product	✗			
CLASS II	Models		A1	A2	B1	B2
	Recirculation		70%	70%	30%	100%
	Exhaust		30%	30%	70%	0%
	Min. Inward Face Velocity		75 fpm	100 fpm	100 fpm	100 fpm
	Protection	Personal	✓	✓	✓	✓
		Environmental	✓	✓	✓	✓
		Product	✗	✓	✓	✓
CLASS III	Protection	Personal	✓			
		Environmental	✓			
		Product	✓			

BIOSAFETY CABINET CLASS	COMMON USE CASES	
CLASS I	<ul style="list-style-type: none"> <li>- Handling low-risk agents</li> <li>- Work with non-hazardous materials</li> </ul>	
CLASS II	<ul style="list-style-type: none"> <li>- Handling moderate-risk biological agents</li> <li>- Cell culture Work</li> <li>- Work with HIV, influenza, etc.</li> </ul>	
	A1	<ul style="list-style-type: none"> <li>- Processing forensic samples</li> <li>- Research on chemicals and powders</li> </ul>
	A2	<ul style="list-style-type: none"> <li>- Research on biological agents of moderate risk</li> <li>- Tissue culture work</li> <li>- Work with bacteria, viruses, and fungi</li> </ul>
	B1	<ul style="list-style-type: none"> <li>- Clinical on specimens</li> <li>- Work with low to moderate-risk biological materials</li> </ul>
	B2	<ul style="list-style-type: none"> <li>- Handling hazardous biological materials</li> <li>- Work with risk group 2 and 3 pathogens</li> </ul>
CLASS III	<ul style="list-style-type: none"> <li>- High-level microbiological work</li> <li>- Work with infectious diseases like SARS, MERS, etc.</li> </ul>	

# GLOBAL PRESENCE



## Brinda Pharma Technologies Pvt. Ltd.



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