



MEHROTRA Biotech

ADVANCE TECHNOLOGIES EFFECTIVE SOLUTION



WHAT WE DO?

Mehrotra Biotech Pvt Ltd has been established with an aim to contribute to the enhancement of medical-hospital, pharmaceutical, biotechnological, and general laboratory services through the provision of high-quality innovative solutions, ensuring an improved quality of life and well-being for society at large.

Our primary objective is to deliver customized solutions that precisely align with the unique requirements of our customers. To achieve this, our dedicated functions including engineering, R&D, manufacturing, and customer service are focused on each technology within Mehrotra Biotech's area of expertise:

- We offer solutions and equipment for clean air technology, encompassing both horizontal and vertical laminar flow cabinets, biological safety cabinets, and laminar flow systems.
- Our portfolio includes solutions and equipment for advanced sterilization utilizing Autoclaves, Ovens, and incubators.
- We specialize in solutions and equipment employing biological containment technology, such as containment isolators and sterile isolators.
- Additionally, we provide solutions and equipment utilizing freeze drying and vacuum drying technology, ranging from laboratory freeze dryers to GMP freeze dryers.

By offering these comprehensive solutions, we aim to continually improve and advance the various sectors we serve, ensuring the highest standards of quality, safety, and efficiency in medical and laboratory practices.

“Our aim is to provide tailor-made solutions in strict accordance to the needs of customers.”



OUR MISSION

Our mission is to empower individuals and communities through innovative solutions and exceptional service. We are committed to providing high-quality products and services that address the needs of our customers and contribute to advancements in scientific and medical research. Guided by our core values of integrity, collaboration, and social responsibility, we strive to make a positive impact on society, while prioritizing environmental sustainability and community healthcare. Through our dedication to excellence and the expertise of our team, we aim to be a trusted partner in shaping a healthier and more prosperous future for all.

OUR VISION

Our vision is to be a leading innovator and catalyst for positive change, creating solutions that transform lives and shape a better future. With a commitment to excellence, creativity, and social impact, we strive to revolutionize Biomedical research & Pharmaceutical industry through cut-edge design, forward-thinking strategies, and meaningful collaborations.

BIOSAFETY CABINET CLASS II TYPE B2

Introducing MBPL's B2 Biological Safety Cabinet: the ultimate solution for applications requiring efficient exhaust and no air recirculation.

The Biosafety Class II Type B2 cabinet is designed to provide an enhanced level of protection for both the operator and the environment. One of the distinguishing features of the Biosafety Class II Type B2 cabinet is its ability to handle both hazardous chemicals and biological materials, including microorganisms that may pose a moderate to high risk.

The system combines the efficiency of state-of-the-art DC motors & an advanced automatic airflow compensation system which constantly monitors and adjusts the air flow velocity in both the exhaust and downflow, ensuring a consistent and controlled environment within the cabinet that maximizes operator safety and comfort.

Additionally the cabinet is independently tested to guarantee conformity to standard EN 12469 for Class II Biological Safety Cabinet (100% exhaust) & thus ensures Personnel, Product and Environmental safety.



KEY FEATURES

- **Enhanced Protection:** Provides advanced protection for both the operator and the environment during the handling of hazardous substances.
- **TFT Controller:** Equipped with a state-of-the-art TFT controller for precise monitoring and control of cabinet functions.
- **HEPA Filtered Air in Exhaust:** Incorporates HEPA filters in the exhaust system, ensuring the removal of contaminants and maintaining clean air within the workspace.
- **Thimble Connection:** Includes a convenient thimble connection for external exhaust, allowing for easy integration with existing ventilation systems.
- **Hermetically Sealed Sash Opening:** Features an all-round sealed sash opening, minimizing the risk of air leakage and providing a secure work environment.

- **Automatic Air Flow Compensation:** Utilizes automatic air flow compensation technology to maintain consistent air velocity in the exhaust and downflow, optimizing safety and efficiency.
- **Dual Motor Control:** Utilizes DC motors for downflow and an AC motor controlled by VFD for exhaust, allowing for simultaneous and independent motor control.
- **Operator Comfort:** Designed with operator comfort in mind, ensuring a comfortable and ergonomic working experience.
- **Compliance with Safety Standards:** Meets the requirements and guidelines of biosafety class 2 type B2 cabinets, ensuring compliance with industry safety standards.
- **Versatile Applications:** Suitable for a wide range of applications in hospitals, laboratories, and research facilities, providing a reliable and controlled environment for handling hazardous materials.

TECHNICAL SPECIFICATIONS

Model	CBSB900	CBSB1200	CBSB1800
External Dimension(LxWxH)	1100x746x1330 mm	1400x746x1330 mm	1980X746X1330 mm
Internal Dimension(LxWxH)	930x580x660 mm	1240x580x660 mm	1860X580X660 mm
Display	5" TFT Touch Screen Display Controller		
Cleanliness Level	Class 100(Class II Type B2)		
Filter	Downflow: 900/1200/1800x450x69mm HEPA H14 Filter \square 99.999% @0.3 μ m Pre-filter: 300x300x69mm HEPA G3 Filter Exhaust : 550x 390x 69mm HEPA H14 Filter (as per EN1822)		
Air Flow Mechanism	100% Exhaust through heavy duty Blower placed outside (VFD Controlled) DC Blower for Downflow		
Noise	<65dB \pm 5%		
Sensor	MEMS Analog Air Velocity Sensor		
Sterilization	15W 254nm UV Tube	30W 254nm UV Tube	30W 254nm UV Tube
Blower	High efficiency centrifugal blower DC/ECM blower		Dual Centrifugal Blowers
Flow Velocity	Inflow Min: 0.51 m/s ; Down flow Min: 0.35m/s		
Illumination	2 Nos. 18W LED Batten	24W high bright LED	2 Nos. 40W LED Batten
Front Sash	Double layered laminated glass for UV protection		
Workspace	AISI 304 Stainless steel with removable 3pc Autoclavable worktop.		
Standard Service Port	2 Nos 6Amp Socket with Liquid Splash resistant 1 Nos Gas nozzle with shutoff valve.		
Sash Opening	8in (203.2mm)		
Rated Voltage	220V -240V /50hz		
Rated Power	800W	800W	1000W
Standard Accessory	Powder Coated MS Base Stand with Castors.		
Other Features	IP54 rated EU Power Sockets, Air Flow Monitoring , Air flow control, Ceramic Gas Shut of Valve with inlet nozzle		



Mehrotra Biotech Pvt. Ltd.

M&M TOWER B-22 23, VIBHUTI KHAND, GOMTI NAGAR, LUCKNOW- 226010

Tel + 91 522- 2720663, 9838203520

E-mail: sales@mehrotrabiotech.com, service@mehrotrabiotech.com.

Website: www.mehrotrabiotech.com

OUR BRANCH OFFICES

LUCKNOW  9335954424	DELHI  9899982221,8700206763	MUMBAI  9769173005	HYDERABAD  9911675755
BANGALORE  8123668899	KOLKATA  9543122965	AHMEDABAD  9925976439	

