



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

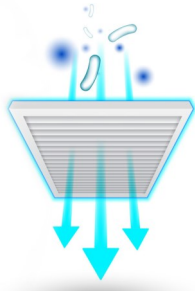
Our mission is to empower individuals and communities through innovative solutions and exceptional service. We are committed to providing high-quality products and services that address the needs of our customers and contribute to advancements in scientific and medical research. Guided by our core values 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 A2

The Mehrotra Biotech make **Biosafety Cabinet Class II Type A2**, designed in compliance with **NSF49** and **certified by EN12469**, provides enhanced reliability and operational convenience. It incorporates **Automatic Air Flow Compensation technology**, which continuously monitors the real-time health of the filters (**ADA Compliant**), ensuring a consistent airflow that safeguards the product, personnel, and environment.



1

Personnel protection from harmful agents inside the cabinets.

2

Product protection to avoid contamination or cross contamination during the experiment.

3

Environment protection from the contaminants.

KEY FEATURES

- 5" MICROPROCESSOR TOUCHSCREEN CONTROLLER WITH DISPLAY OF FILTER HEALTH, AIR FLOW MONITORING, BLOWER, UV, POWER SOCKET & LED STATUS
- OUT OF RANGE PARAMETER, DOOR POSITION & DOOR OPEN ALERT
- AUTOMATIC AIR FLOW COMPENSATION WITH REALTIME FILTER HEALTH MONITORING SYSTEM
- ECONOMY MODE REDUCES ENERGY CONSUMPTION IN STANDBY.
- HERMETICALLY SEALED SASH OPENING WITH SILICON DOOR GASKET
- SMOOTH VERTICAL SASH SLIDING SYSTEM
- SEAMLESS & ROUND SS304 CHAMBER
- FRAGMENTED SS304 AUTOCLAVABLE WORKTOP
- INTEGRATED WITH DUAL DC BLOWERS
- LIQUID SPLASH PROOF INTERNAL POWER SOCKETS
- PASSWORD PROTECTED ACCESS CONTROL
- SPECIALLY DESIGNED ANGULAR SHAPED AIR INTAKE VENT TO PREVENT BLOCKAGE
- PROGRAMMABLE UV TIMER WITH DATA LOGGER
- SS304 SPILLAGE TRAY WITH DRAIN PORT.

ENERGY EFFICIENT BACKWARD CURVED DC ECM BLOWER

- Latest technology DUAL DC ECM motor that is more efficient than any other legacy motors or VFD's
- Consumes 65% less energy than AC motor
- Consistent Air flow despite power fluctuations.



SUPERIOR QUALITY MEMS AIR FLOW SENSOR

- Features MEMS based air flow sensor from OMRON
- Ensures Precise monitoring of air flow regardless of temperature and pressure
- Innovative 3D flow path design reduces dust impact on sensor chip, boosts reliability.



MICROPROCESSOR TOUCHSCREEN CONTROLLER

- State-of-the-art microprocessor based controller with 5" TFT Color display.
- Automatic Air Flow Compensation with real time filter loading information
- On-screen display for real-time monitoring of airflow, filter health, and fan speed.
- User-friendly control buttons for managing lighting, UV light, timer settings, and power
- Energy-saving eco-mode during standby
- Built-in data logging with USB port for easy data transfer and analysis.



HERMETICALLY SEALED SASH OPENING

- The Workspace is provided with silicon door gasket from all sides to prevent escape of contaminated air.
- Provided with specially designed air vent to prevent blockage of inflow air during working

SS304 INTERIOR

- All round SS304 seamless Internal Chamber for easy cleaning.
- Fragmented autoclavable worktop

TRIPLE LAYERED 8.75MM TOUGHENED GLASS



CUTTING-EDGE CONTROLLER

Precise Control, Intelligent Monitoring, Seamless Connectivity



1. Control Functions:

- The controller offers precise and accurate control over designated parameters.
- It supports a wide range of control modes, including analog, digital, RS Communication.
- Multiple input and output channels allow for versatile control configurations.
- Control actions can be implemented in real-time for seamless operation.

2. User Interface:

- The controller features an intuitive and user-friendly interface for easy configuration and operation.
- A high-resolution display provides clear visibility of critical information and system status.
- Interactive menus and touchscreen functionality enhance user interaction.

3. Automatic Airflow Compensation Technology:

- The controller incorporates advanced automatic airflow compensation technology, ensuring optimal performance in diverse environmental conditions.
- It continuously monitors and adjusts airflow based on factors such as temperature, pressure, and humidity, to maintain desired parameters.

4. Out-of-Range Parameter Warning System:

- An intelligent warning system is integrated into the controller to detect and alert users when parameters exceed the predefined air flow range.
- Visual and audible notifications for door open, door position, filter clogging etc. provide immediate feedback to operators, enabling timely corrective actions.

5. Communication and Connectivity:

- The controller supports various communication protocols, such as Ethernet, Modbus, and CAN, enabling easy integration with existing systems.
- It offers seamless connectivity with external devices, such as sensors, actuators, and VFD's.
- Remote access and control capabilities enable monitoring from a central location.

6. Robustness and Reliability:

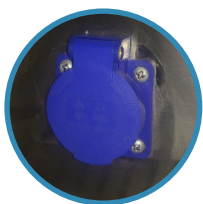
- Built with high-quality components and robust construction, the controller ensures durability and reliability in demanding industrial environments.

7. Compatibility and Standards:

- The controller complies with industry standards and regulations, ensuring compatibility with third-party devices and systems.

Note: The above technical specifications are provided as a general outline and can be customized based on specific requirements and application needs.

SAFETY FIXTURES



**LIQUID SPLASH PROOF
ELECTRICAL SOCKETS**



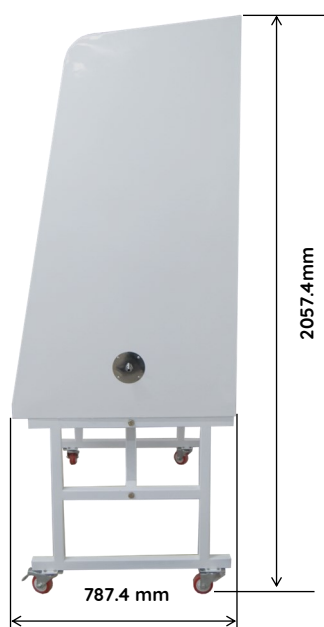
**SILICON SASH
GASKET**



**GAS/LIQUID
EXTERNAL VALVE**

TECHNICAL SPECIFICATIONS

Model	CBS900	CBS1200	CBS1800
External Dimension(LxWxH)	1067x746x1330 mm	1359x746x1330 mm	1980X746X1330 mm
Internal Dimension(LxWxH)	930x580x660 mm	1240x580x660 mm	1860X580X660 mm
Display	5" Full Color TFT Display with Touchscreen interface		
Cleanliness Level	CLASS 10 in accordance with ISO CD 14644-1		
Controller	5" TFT Touch Screen Controller with on-screen control buttons		
Filter (Downflow/Exhaust)	H14 HEPA Filter \geq 99.999% @0.3 μ m as per EN1822		
Noise	<58 dB \pm 5%		
Sensor	MEMS Based Air Flow Sensor with accuracy of +/- .01m/s		
Alarms	Door open, Door Position, In adequate air flow, filter clogging.		
Sterilization	15W 254nm UV Tube	30W 254nm UV Tube	30W 254nm UV Tube
Blower	3200rpm energy efficient DC ECM blowers		
InFlow/Downflow Velocity	0.51 m/s / 0.35m/s +/- 0.02m/s		
Illumination	24W LED	36W LED	2 Nos. 24WLED
Light Intensity(LUX)	>1000	>1200	>1500
Front Sash	8.75mm Double layered laminated & Toughened glass for UV protection		
Workspace	AISI SS304 Stainless steel Fragmented easy to remove worktop.		
Standard Service Port	2 Nos 6Amp Socket with IP56 liquid splash proof		
Sash Opening	8in (203.2mm) as per standard (Max upto 18inch/ 470mm)		
Rated Voltage	220V -240V /50hz		
Rated Power	195 W	340W	510W
Standard Accessory	Powder Coated MS Base Stand with Castors		
Optional Accessory	Height adjustable stand, Thimble duct connection with accessories, External exhaust for duct , USB/RS232/LAN Communication Port		





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