



BIO SAFETY CABINET

MBSC-06



Quality, Management, Environment, Health & Safety Standards



INTRODUCTION

Engineered for sterility and safety, the MarkEn Bio Safety Cabinet ensures a contamination-free workspace, safeguarding samples, personnel, and the environment. Designed for critical applications like microbiology, sterile compounding, and forensics, it delivers unmatched reliability and comfort. Featuring advanced HEPA/ULPA filtration, it upholds stringent industry standards, providing a pristine, controlled environment for precision work.



KEY FEATURES

ENERGY EFFICIENCY



Low power consumption of only 120 watts.



Equipped with a DC ECM blower for up to 70% energy savings.

COMPACT AND PORTABLE DESIGN



Cost-effective ULPA filter (ISO Class 3 work zone) with >99.999% efficiency for particle sizes of 0.1–0.3 μm .



Superior performance compared to standard HEPA filters.

LOW NOISE EMISSION



Operates at only 45 dBA, ensuring a quiet and comfortable working environment.

ENHANCED SAFETY FEATURES



Intuitive and ergonomic Sentinel™ Gold Microprocessor Controller for airflow stability.



Stable and self-compensating airflow to maintain continuous sample protection.

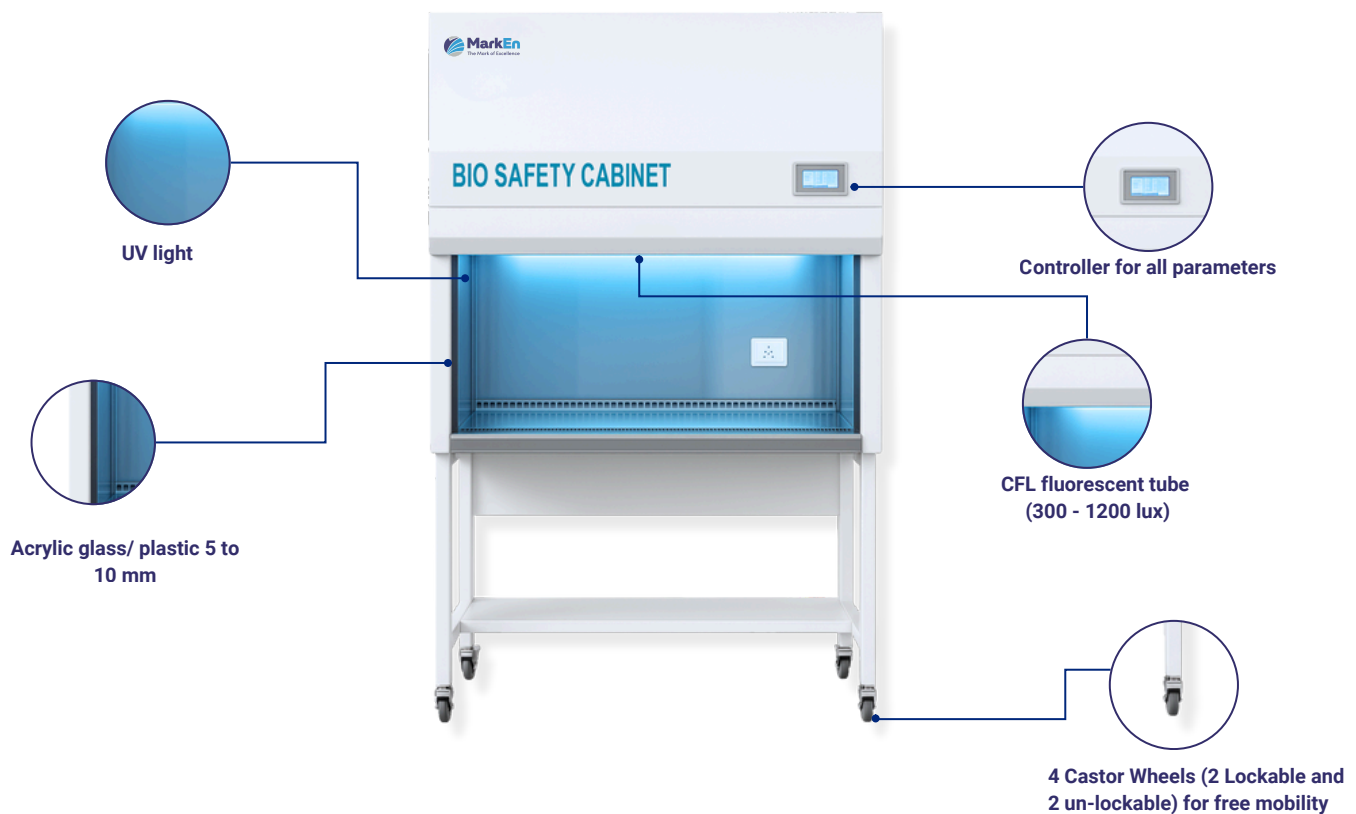
ENHANCED SAFETY FEATURES



Fixed and sliding sash options for vertical configurations.



Vertical airflow eliminates turbulence and prevents dead air zones.



DURABLE CONSTRUCTION



Engineered for a minimum of 10 years of operational life.



Guaranteed availability of spare parts for long-term reliability.

USER CONVENIENCE



Separate lighted power ON/OFF controls.



Designed for ease of use and maximum user comfort.

APPLICATIONS



Microbiology – Ensures safe handling of non-pathogenic samples with maximum protection.

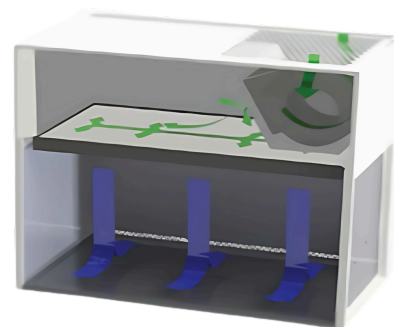


Forensics – Maintains a contamination-free zone for precise evidence analysis.



Sterile Product Compounding – Perfect for pharmaceutical and lab settings requiring absolute sterility.

MarkEn Bio Safety Cabinets set the benchmark for safety, reliability, and user comfort. Designed to meet the highest industry standards, they are the ultimate solution for laboratories and industries demanding uncompromised sterility and contamination control.



TECHNICAL SPECIFICATION	
Make	MarkEn
Model No	MBSC-06
Type of air flow direction	Vertical
Air Circulation System	3 EC fans (Electronically Commutated) having 75–80% efficiency for stable and energy-efficient turbulence-free flow
Thickness of the floor or side panels	5 mm
Type of configuration	Freestanding,
Material used for the work bench	Stainless steel 304 grade
Material used for the front door	Acrylic transparent
Material used for the Side Panel	Stainless steel 304 grade
Main Body	1.2 mm / 0.05" / 18 gauge electro-galvanized steel with white oven-baked epoxy powder coated finish
Availability of motorized	Sliding door , 20cm sash opening with tempered glass
Display	LED,LCD display for velocity, time & lamp on/off
Real-Time Monitoring	Fluorescent/UV clock with auto start/stop
Alarm	Digital Pressure Gauge with Alarm
Light intensity	≥ 2000 lux and additional UV light
Utility Provisions	Facility provided for Vacuum, Water, and Non-Combustible Gas Taps – ergonomically positioned and compatible with standard laboratory fittings.
Electrical Receptacles	Duplex socket on each side with splash cover
Pressure Monitoring	Equipped with Magnehelic Pressure Gauge for monitoring filter differential pressure
Gas Burner	Supplied with in-built gas burner having stainless steel nozzle for reliable performance and durability
Type of air cleanliness	Class 100
Type of Sash (front door)	Folding
Auto Sash Control	Automatic start/stop of airflow when sash raised or lowered
Blower Function	Blower idles automatically when sash fully closed
Internal Work Area, (WxDxH) in feet	4 x 4 x 2 ft , Class II Type
Downflow Air Volume	500 m³/h (corresponding to ≥ 0.26–0.38 m/s velocity)
Laminar air flow Velocity (m/s)	0.26 to 0.38
Exhaust HEPA Filter Typical Efficiency	≥99.99% at 0.3 microns
Exhaust Velocity	350 m³/h with independent energy-efficient EC exhaust fan
HEPA Filter Depth and Design	10 cm deep H14 HEPA filter designed for low pressure drop and extended filter life
Front Grill Design	Angled perforated grill for ergonomic airflow
Sound Emission	45 dBA
Illumination	LED
Electrical	230V/50HZ 15 A

ALL-IN-ONE SOLUTION FOR

Cold Chain Solution
Medical Equipment
Blood Bank Equipment

Hospital & Scientific Equipment
Hospital Furniture & Infrastructure
Commercial Refrigeration



25+

Years of Excellence



400+

Product Range



500+

Service center



1000+

Committed Engineers



1,00,000+

Satisfied Users

CERTIFICATION



Intertek
9 products tested by a
WHO-accredited laboratory



ISO 14001: IAF



WHO GMP



BIFMA Certified,
BIFMA Level 3



ASTM- Corrosion
Free Products



ISO 2409



& MANY OTHER...

OUR ESTEEMED CUSTOMERS



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