



# BIO SAFETY CABINET



Quality, Management, Environment, Health & Safety Standards



CDSCO MD 5 License



USFDA Listed



European CE



ISO 9001: 2015  
IAF



ISO 13485:2016  
NABCB/IAF



ISO 45001 : 2018  
IAF



7 Electric Safety  
Certifications

## 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 155 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  $\mu\text{m}$ .



Superior performance compared to standard HEPA filters.

### LOW NOISE EMISSION



Operates at only 52 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.

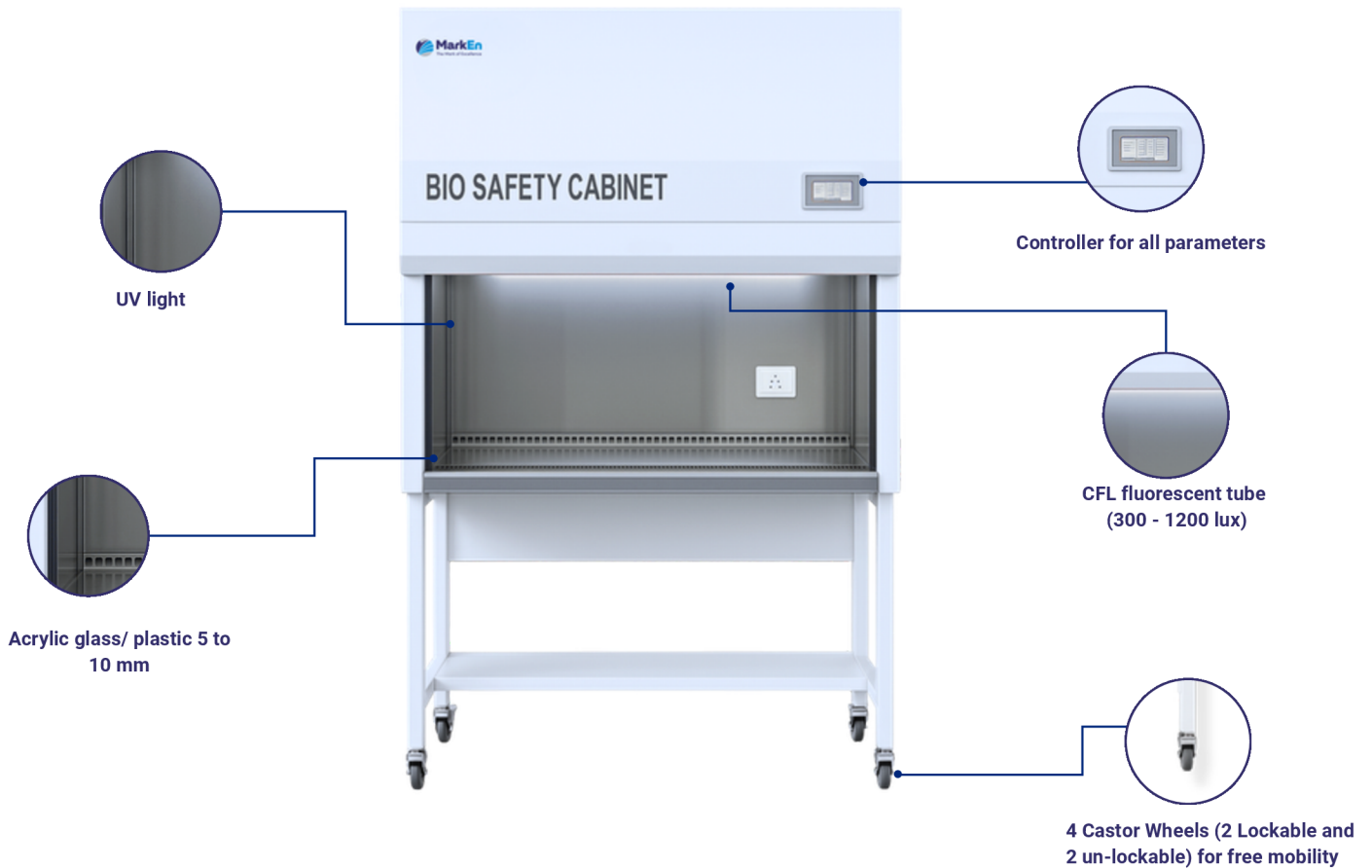
### SASH OPTIONS & AIRFLOW



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.

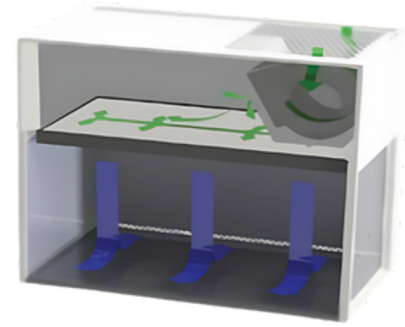


**Forensics** – Maintains a contamination-free zone for precise evidence analysis.



**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

<b>Make</b>	MarkEn
<b>Type of air flow direction</b>	Vertical
<b>Thickness of the floor or side panels</b>	5 mm
<b>Type of configuration</b>	Freestanding,
<b>Material used for the work bench</b>	Stainless steel 304 grade
<b>Material used for the front door</b>	Acrylic transparent
<b>Material used for the Side Panel</b>	Stainless steel 304 grade
<b>Main Body</b>	1.2 mm / 0.05"/ 18 gauge electro-galvanized steel with white oven-baked epoxy powder coated finish
<b>Availability of motorized</b>	Sliding door
<b>Display</b>	LED,LCD display for velocity, time & lamp on/off
<b>Alarm</b>	Digital Pressure Gauge with Alarm
<b>Light intensity</b>	>= 1000 lux and additional UV light
<b>Type of air cleanliness</b>	Class 100
<b>Type of Sash (front door)</b>	Folding
<b>Internal Work Area, (WxDxH) in feet</b>	4x2x2
<b>Laminar air flow Velocity (m/s)</b>	0.26 to 0.38
<b>Exhaust HEPA Filter Typical Efficiency</b>	≥99.99% at 0.3 microns
<b>Average down flow at 5-10 cm above the work access opening</b>	80 FPM (+/- 5)
<b>Sound Emission</b>	52 dBA
<b>Illumination</b>	LED
<b>Electrical</b>	230V/50HZ 15 A
<b>Weight (Net)</b>	90 kg

### CAPACITY

Size 2x2x2 ft.
Size 3x2x2 ft.
Size 4x2x2 ft.
Size 5x2x2 ft.
Size 5x2.5x2.5 ft.
As per customer requirement

# 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



10 products tested by a WHO-PQS accredited laboratory



ISO 14001: IAF



WHO GMP



BIFMA Certified, BIFMA Level 3



ASTM- Corrosion Free Products



ISO 2409

EN 13523-26,  
ISO 13849-1,  
IP 69, IP 65

& MANY OTHER...

## OUR ESTEEMED CUSTOMERS



& MANY MORE...



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