



LAMINAR AIR FLOW



Quality, Management, Environment, Health & Safety Standards



CDS CO MD 5 License



USFDA Listed



European CE



ISO 9001:2015
IAF



ISO 13485:2016
NABCB/IAF



ISO 45001 : 2018
IAF



7 Electric Safety Certifications
IEC 60335-1 and IEC 60335-2-24, IEC 61010-1,
IEC 61010-2-020 and 61010-2-101, IEC 61326-1,
IEC 61326-2-6.

INTRODUCTION

MarkEn Laminar Air Flow cabinets provide a sterile, contamination-free workspace with constant filtered airflow, ensuring safe and precise operations. They are ideal for handling low-risk substances and materials in applications such as electronics assembly, plant tissue culture, and media preparation. Designed for laboratory, medical, pharmaceutical, and institutional workplaces requiring sterile, dust-free air.

KEY FEATURES

ENERGY EFFICIENCY



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



Low power consumption of only 155 watts.

ENHANCED AIR FILTRATION



Features a cost-effective ULPA filter (ISO Class 3 work zone) with >99.999% efficiency for particle sizes of 0.1–0.3 μm , offering filtration 10x better than standard HEPA filters.



Creation of Sterile Zone: Ensures creation of an abacterial, dust-free laminar airflow zone for critical applications.



Safe Handling of Low-Risk Materials: Ideal for handling low-risk substances and materials requiring a contamination-free environment.

QUIET OPERATION



Noise emission as low as 52 dBA for a comfortable working environment.

FLEXIBLE DESIGN



Available with fixed and sliding sash options for vertical models.



Vertical laminar flow configurations to suit various applications.

ADVANCED CONTROL SYSTEM



Equipped with an intuitive and ergonomic Sentinel™ Gold Microprocessor Controller for stable and self-compensating airflow.

DURABLE CONSTRUCTION



Engineered for a minimum of 10 years of life with guaranteed spare parts availability.

USER CONVENIENCE



Separate lighted power ON/OFF controls.



Ergonomically designed for ultimate user comfort and efficiency.

VERTICAL LAMINAR FLOW CABINET

The Vertical Laminar Flow Cabinet provides sample protection by directing purified air in a vertical, unidirectional stream across the working zone. Perforations at the back wall help eliminate air turbulence and dead-air corners, ensuring consistent airflow across the workspace.

APPLICATIONS:

- Microbiology (non-pathogenic)
- Forensics
- Sterile product compounding

TECHNICAL SPECIFICATION	
Make	MarkEn
Type of air flow direction	Vertical / Upright
Thickness of the floor or side panels	5 mm
Type of configuration	Freestanding, benchtop, Mobile
Material used for the work bench	Stainless steel 304 grade
Material used for the front door	Acrylic transparent, Stainless steel 304 grade, Glass, Polycarbonate
Material used for the Side Panel	Acrylic
Availability of motorized	Sliding door
Sealing	Hermetically sealed structure
Display	LCD / LED display
Alarm	Digital Pressure Gauge with Alarm
Hour Meter	Integrated Hour Meter provided for accurate operation time monitoring
Working Area Size (W×D×H)	1200 × 600 mm (±100 mm) with working height 750 mm (±100 mm)
Type of air cleanliness	Class 100
Airflow Performance	Laminar velocity 0.31–0.4 m/s with 240–480 ACH
Exhaust HEPA Filter Typical Efficiency	HEPA ≥99.97% @ 0.3µm with 10µ washable fibre pre-filter
Sound Emission	52 dBA
Illumination	LED
UV Lamp	Built-in UV Lamp provided for effective sterilization and contamination control
Power Supply	100–240 VAC, 50–60 Hz

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



Intertek



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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