



HOT AIR OVEN



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
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 Hot Air Ovens are designed to generate heat with blower-assisted motorized air recirculation inside the chamber at temperatures up to +250°C. Equipped with an air-circulating fan for improved heat distribution, they are widely used for drying glassware, sterilizing N95 masks, and for general instruments and packaging items.



FEATURES

- **Wide Temperature Range:** Operates from ambient to +250°C with $\pm 1^\circ\text{C}$ accuracy.
- **Robust Construction :** Double-walled construction with insulated inner and outer surfaces; interior designed for easy cleaning and maintenance
- **Material Used :** Fabricated using high-quality mild steel, rubber components, and other approved industrial-grade materials.
- **User-Friendly Design:** Ergonomic build with key lock for unauthorized access prevention.
- **Tropical Climate Ready:** Engineered to perform reliably in tropical environments.
- **Secure Storage:** Equipped with audible and visual alarms for abnormal temperature.
- **Interior Illumination:** Ensures clear visibility for users, enhancing ease of operation in low-light environments.
- **Password-Protected Control Panel:** Prevents accidental or unauthorized changes.
- **Delayed Start/Stop:** Offers programmable delay functions for controlled operation.
- **High-Quality Electric Heating Element:** Ensures efficient and reliable heat output.
- **Over-Temperature Protection:** Integrated safety system to prevent overheating.
- **Pure Copper Tubing:** All system tubing made of 99.97% pure copper for durability and thermal efficiency.
- **Digital Safety Thermostat:** Maintains precise temperature stability.
- **Durable Build:** Designed for a minimum 10-year lifespan with spare parts availability.

TECHNICAL SPECIFICATION	
Make	MarkEn
Application	Suitable for microbiology, cell culture (plant & animal), food testing, laboratories, industries, and R&D applications
Type	Bench Top Model
Capacity in Liter	96 L (\approx 3.4 CFT)
Outer Material of Cabinet	Powder-Coated Mild Steel Exterior for superior corrosion resistance and long-lasting durability.
Inner Material of Cabinet	Made of SS304 with mirror finish for easy cleaning and corrosion resistance
Insulation	Double wall with high-density glass wool insulation
Dimensions (W x D x H)mm	Inner: 18" x 18" x 18" (457 x 457 x 457 mm) Outer : 31" x 25" x 41" (787 x 635 x 1041 mm)
Door System	Fully opening insulated door with right-side hinge, heavy-duty hinges & handle, gasket sealing, and locking arrangement for leak-proof closure
Shelves	3 adjustable Adjustable SS/GI wire mesh shelves with proper air circulation design(\approx 10 kg load per shelf)
Air Circulation System	Forced air circulation for uniform temperature
Ventilation Control	Dual adjustable ventilation slides for inner air/vapour circulation control
Operating Temperature Range	Ambient to +250°C, adjustable with a setting accuracy of $\pm 1^\circ\text{C}$
Temperature uniformity	$\pm 0.5^\circ\text{C}$ across chamber
Environmental Condition	Maximum +10°C to +40°C with Humidity 15% to 90% RH
Control System	Microprocessor-based PID with dual display (LCD)
Heating System	SS tubular heater with forced air circulation
Regulator	Solid-state electronic relay with protective heat sink
Temperature Control	Fully digital temperature control system ensuring stable, accurate, and uniform temperature across the working area
Display	LED display showing time, temperature setting , and actual temperature reading.
Alarms(Optional)	Audible and visual alarm system for over and under temperature, sudden power failure, and battery low
Noise level	<55 db
Validation Port	Provision for inserting thermometer to monitor internal chamber temperature
Power Rating	1500 Watts
Power Requirement	220–240V, 50 Hz, Single Phase

KEY CUSTOMIZATION & ADD-ON FEATURES

- Blower Position : Top-mounted design to prevent moisture ingress and enhance system longevity
- Control Panel Position : Bottom-front mounted for ergonomic operation and easy access
- Keyhole Provision : Integrated port for temperature validation using external probe/datalogger

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CERTIFICATION



10 products tested by a WHO-PQS accredited laboratory



Intertek



ISO 14001: IAF



WHO GMP



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ASTM- Corrosion Free Products



ISO 2409

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

& MANY OTHER...

OUR ESTEEMED CUSTOMERS



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