



SHAKER INCUBATOR



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 presents its Shaker Incubator, a high-performance, space-saving laboratory solution engineered for precision-controlled shaking and temperature stability. Designed to deliver unmatched reliability and performance, it is ideal for pharmaceutical, life sciences, biotechnology, and research laboratories. With the ability to operate seamlessly even when stacked two levels high, this shaker ensures uninterrupted workflow and optimal utilization of space.

Incorporating advanced auto-restart functionality and robust non-volatile memory, the device safeguards protocols against power failures. Its wide holding capacity and flexible clamping system make it suitable for a variety of vessels, from small vials to large flasks.



FEATURES

- **Space-Saving Stackable Design** : Designed to save valuable laboratory space with stackable units that operate seamlessly together.
- **Smooth & Silent Operation**: Smooth, vibration-free performance engineered for effortless movement with minimal noise, ensuring an undisturbed laboratory environment.
- **Internal Lighting for Better Visibility** : Integrated warm white or LED light provides clear internal visibility without opening the door.
- **Pre-Programmed Operation Profiles**: Automate your workflow with multiple preset stages—perfect for time-bound or repeated experiments.
- **Wide Temperature Flexibility**: Handles a broad temperature range, supporting both cold and heated incubation applications in one unit.
- **Built-In Safety & Alarm Systems**: Visual and audio alerts notify users of any deviations, ensuring safe and reliable operation.
- **Automatic Restart After Power Cuts**: Non-volatile memory ensures the system resumes programmed operation automatically after power restoration.
- **Compact Footprint, Large Capacity**: Efficient use of lab space while still accommodating multiple samples in a single unit.

ACCESSORIES

Clamps Supplied :-

- 250 mL × 4,
- 500 mL × 4,
- 1 L × 2
- 2 L × 2

TECHNICAL SPECIFICATION	
Make	MarkEn
Type	Shaker Incubator
Flask Capacity	Supports 50 mL to 6 L flasks
250 mL Flask Holding	18 flasks of 250 mL
Construction Material	Stainless steel interior chamber with MS powder-coated exterior.
Platform Type	Universal platform
Platform Size (W × D)	460 × 460 mm
Door	Front-opening door with toughened double-glazed viewing window
Shelf Provision	Adjustable internal shelf for petri plate incubation
Insulation	High-grade thermal insulation on all sides for uniform temperature stability.
Shaking Motion	Orbital shaking motion with 2.5 cm / 1 inch orbit diameter
Shaking Speed Range	25–400 RPM shaking speed, ±1 RPM accuracy
Controller	Programmable controller for speed and temperature ramp up/down
Motor & Drive	Brushless motor with triple eccentric electromagnetic drive mechanism
Stackability	Stackable up to 2 units without external stand
Temperature Range	+20°C below ambient to +80°C range, +4°C set point and ±0.1°C accuracy at +37°C
Temperature Uniformity	±0.25°C
Temperature Control	Microprocessor-based PID control
Reservoir	Multifunction reservoir with pluggable drain for humidity control and spill collection
Motion & Operation	Smooth, silent operation ensuring no vibration noise
User Interface	Multifunction single-knob or keypad-based interface
Program Memory	12 multi-step programmable methods with independent speed, temperature and time settings
Alarm System	Audio-visual alarm for speed and temperature deviation; ±5 RPM speed alarm and ±1°C temperature alarm
Safety Features	Automatic halt on excessive vibration due to imbalance.
Internal Socket	Moisture-proof internal electrical socket
Spill Protection	Spill cover above drive for electronics and mechanical protection
Upgrade Options	Gas manifold, photosynthetic light, UV light and culture drawer
Power Efficiency	Low power consumption design
Power Supply	220–240 V AC, 50/60 Hz, Single Phase

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Intertek



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ISO 2409



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