

Stackable Incubator Shaker

The Innova INN-IS-747 Stackable Incubator Shaker is a high-performance, versatile incubator shaker designed for microbial culture applications in demanding lab environments. It offers a compact design with advanced features, including triple-eccentric drive and the ability to stack up to three units, each operating independently. The INN-IS-747 provides precise temperature and speed control with a robust platform that can support heavy loads and a wide range of flask sizes, up to 5 liters. Its user-friendly, 10-inch color touch screen offers intuitive control, with data export and multi-step programming capabilities to meet complex culture requirements. With advanced safety, ease of maintenance, and IoT connectivity options, this model is ideal for high-capacity research laboratories.



Features:

- **Compact, Stackable Design:** The incubator can be stacked up to three units high, with independent control for each, allowing for efficient use of laboratory space.
- **Five- Eccentric Drive:** Ensures smooth and stable shaking even with large flasks, supporting up to 5 liters without vibration or imbalance issues.
- **Large Touchscreen Display:** A 10-inch color capacitive touch screen with intuitive controls, offering real-time data display, curve plotting, and export capabilities via USB.
- **Heavy-Duty Platform:** Supports up to 35 kg load capacity, compatible with diverse flask sizes, and includes slide-out design for easy access and maintenance.
- **Enhanced Temperature Control:** Maintains precise temperature from 20°C below ambient up to 80°C, with a high degree of accuracy and uniformity.
- **Multi-Step Programming:** Allows for flexible, timed settings for speed, temperature, and lighting, supporting complex incubation requirements.
- **Imbalance Resolution:** Inbuilt step-by-step guidance for the user to resolve imbalance issues and resume optimal agitation.
- **UV and Side Lamp Illumination:** Includes UV lamps for sterilization and side lamps for optimal illumination within the chamber.
- **Advanced Safety Features:** Includes a secure upward-opening door, automatic screen lock, and password protection for parameters.
- **IoT Connectivity and Monitoring:** Offers remote monitoring and control through WiFi and RS485, with optional SMS and email notifications for alerts.
- **Comprehensive Data Logging:** Stores operating data for over 912 days with a 1-minute storage interval, displaying real-time and historical data trends.

Technical Specifications:

Model	INN-IS-747
Product Name	Stackable Incubator Shaker (250L, Upward Door, Touch Screen)
Platform Dimensions	770 x 650 mm
Max. Capacity (Clamp)	25ml x 240, 100ml x 30, 250 ml x 50, 500 ml x 40, 1000 ml x 20, 2000 ml x 15, 4000 ml (Thomson) x8, 5000 ml x6, Test holder for 24 x 15ml falcon/16 x 15ml Falcon.
Max. Capacity (Universal Platform)	250 ml x 12, 500 ml x 12, 1000 ml x 6, 5000 ml x 6,
Capacity	250 L
Max. Load	20 kg

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Model	INN-IS-747
Temperature Range	Room Temp. -20°C to 80°C
Temperature Accuracy	±0.1°C
Temperature Uniformity	±0.3°C at 37°C
Speed Range	20–400 rpm
Speed Accuracy	±1 rpm
Orbit Diameter	25 mm
Programming Sections	12 Sections
Illumination	Side lamps
Disinfection	UV lamps on both sides
Door Open Direction	Upward
Security	Password protection
Data Display	Temperature curve, speed curve
Display	10-inch color capacitive touchscreen
Timer	0–999 hours 59 minutes
USB Export Data	Yes
Operating Data Storage Cycle	Over 912 days
Operating Data Storage Interval	1-minute intervals
Stored Data	Time, temperature, speed, machine status
Auto-Defrost	Yes
Auto Screen Off & Lock	Yes
Platform with Rails	Yes
Noise Level	≤55 dB (in refrigeration)
Water Spurge Resistant	Yes
Interface Languages	English
Power Recovery	Auto-run after power recovery
Heating Power	850 W
Cooling Power	70–230 W
Power Consumption	950 W
Power Supply	AC 220V ± 22V, 50/60Hz
RH Control	Not Applicable; Optional (10% above ambient, up to 90%)
Mobile Monitoring & Control	WiFi (optional)
PC Monitoring & Control	RS485 (optional)
Net Weight	265 kg
Operation Chamber Height	305 mm
Outside Dimensions (W x D x H)	1240 x 785 x 2057 mm
Stacking Dimensions (All 3 Units)	47 x 38 x 81 in
Door Opening Height (Top Shaker)	100.2 in
Drive Mechanism	Direct Magnetic drive or five-eccentric counterbalanced shafts
Motor Type	Solid-state brushless DC motor
Vibration Counterbalance	Automatic sensing with speed adjustment for sample protection
Multi-Step Programming	Unlimited programming for complex incubation requirements
Platform Accessibility	Slide-out platform for easy access
Platform Removal	Tool-free removal
Sticky Pad Compatibility	Direct installation possible
Maintenance	Refrigeration reservoir drain ports for ease of maintenance
Viewing Window	Large, with chamber light and optional darkening window for light-sensitive samples
Servo Stabilizer	Included
Future Upgrades	CO ₂ control, humidity control (humidification & dehumidification), heated front glass
Test Tube Holders	3 holders for 15 ml Falcon (24 tubes each), 3 holders for 50 ml Falcon (16 tubes each)
IoT Capabilities	Internet of Things (IoT) enabled with cloud access for data retrieval, notifications via email/SMS
Connectivity	Ethernet port for network/computer connection


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Included Slandered Components:

- 1x INN-IS-747 Incubator Shaker Unit
- 1x Universal Platform
- Stacking Kit
- Power Cord and Fuse
- Product Manual and Test Report


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