

# GYROMAX™ 787 & 787R ORBITAL INCUBATOR SHAKERS



---

## ***Incubate and Shake it to the Max...with GYROMAX!***

---

The GYROMAX™ 787 and 787R orbital incubator shakers feature a microprocessor temperature controller, double-walled construction and a 1.5" thick and a double-paned glass window to minimize heat loss. This construction, together with an efficient circulation system, ensures unrivaled optimum temperature uniformity throughout the chamber. The window has an opaque sliding panel to block light from enter the chamber for applications involving light-sensitive materials. The temperature is set digitally and displayed by an LED to 0.1°C. The working temperature range is from +5°C above ambient to 70°C for the non-refrigerated model and 4°C to 70°C for the refrigerated model. A brushless, maintenance-free drive motor generates speeds from 40 to 400 RPM which are displayed digitally. A fan cools the motor so that it operates at a lower temperature, thereby prolonging its life. A dynamically triple-eccentric drive with counter-balancing weights provides smooth and quiet shaking and there is no need for adjustments as the load or RPM changes.

A programmable timer affords a choice of switching between a continuous run or a timed run up to 99 hours and 59 minutes. For even longer runs, each timed run can be repeated up to 999 times.

Multi-step programming is available. A program can consist of up to 9 steps and for each step you can change the time, RPM and the direction of rotation. For example, shake for 60 minutes at 300 RPM in a clockwise direction, then for 120 minutes at 250 RPM for 90 in a counter clockwise direction, followed by 200 RPM for 120 minutes in the opposite direction and so on. For applications such as the mixing of immiscible liquids or in extraction, the direction of rotation can change every 1 minute for optimum effect. To prevent over-heating, the controller shuts off the heater if the chamber temperature exceeds the set temperature by a pre-determined number of degrees. In case of a power failure, shaking automatically resumes when power is restored.

**Optional accessories:** include shelves (one is included with the shaker), clamps, micro plate holder, and spring racks. The spring rack consists of a 2-tier grid of springs. Four screws secure it on the platform. It holds tubes in a horizontal, angled, or upright position, and also flasks up to 1-liter without the need for clamps. The distance between the racks is adjustable so as to accommodate tubes and flasks of different heights.

---

***Amerex Instruments, Inc.***

# GYROMAX™ 787 & 787R INCUBATOR SHAKERS

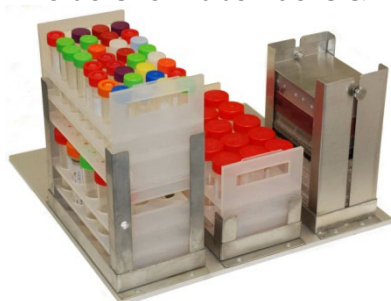
SPECIFICATIONS	787	787R
Temperature Range	+5°C above ambient to 70°C	4°C to 70°C
Temperature Control	Auto-tune PID microprocessor temperature controller, Pt- RTD	
Temperature Display	Digital to 0.1°C	
Accuracy/Uniformity	±0.1°C/±0.5°C	
Timer	1 minute to 99 hours 59 minutes or continuous operation	
Timer Reiteration	The timer of 99 hours 59 minutes can be extended as it can be repeated up to 999 times.	
Speed Display	Digital	
Range	40 to 400 RPM (at 60 Hz)	
Direction	Clockwise or counter clockwise, programmable	
Orbit	1.0" (25 mm)	
Programmability	Continuous or a timed run consisting of a sequence of up to 9 timed steps, each at a set speed and direction of rotation. Each timed run can be repeated up to 999 times.	
Safety Features	Shaking stops when lid is opened. Auto-restart after power failure.	
Shelf	One supplied, additional shelves optional	
Viewing Window	Double-paned, 1.5" (38mm) thick, with sliding panel	
Drive	Dynamically balanced triple-eccentric drive with permanently lubricated bearings eliminates the need for adjustments as the load changes	
Motor	Maintenance-free, brushless motor cooled by a fan	
Heater	600 watts	
Refrigeration	None	1/5 HP compressor, R134a
Speed Range	40 to 400 RPM	
Speed Display	Digital	
Chamber Material	Stainless steel	
Chamber Dimensions (W x D x H)	23.4" x 19.8" x 19.8" (595mm x 503mm x 503mm), volume: 5.3 cu ft (150L)	
Overall Dimensions	26.9"W x 29.9"D x 35.0"H (680mmW x 760mmD x 890mmH)	
Platform Dimensions	18.1"W x 18.1"D (460mm x 460mm)	
Power Source	120V, 50/60Hz, single phase, 5A for 787 and 8A for 787R (or 220V)	

## FLASK CAPACITY

Flask Size (mL)	125	250	500	1000	2000
No. of Flasks	36	25	16	9	5

## ACCESSORIES:

Holder for Tube Racks & Plates



Full Size Spring Rack



Platform with Custom Spring Rack and Other Accessories



Flask Clamps



**Amerex Instruments, Inc.**

3951C Industrial Way  
Concord, California 94520  
925.299.0743 / Fax: 925.299.0745  
www.amerexinst.com  
marketing@amerexinst.com