

# GYROMAX™ 727 ORBITAL INCUBATOR SHAKER

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



The **GYROMAX™ 727 Orbital Incubator Shaker** is compact and occupies only 20"W x 27.5"D of space. With a height of 30.5", it can fit on or under a workbench. The 727 has an adjustable shelf for simultaneous incubation with or without shaking. The chamber holds a 15" x 15" platform and accommodates flasks up to 4 liters. The double-wall construction, together with 1.25" of insulation and a triple-pane glass window, minimizes heat loss. This construction, together with an efficient circulation system, ensures unrivaled optimum temperature uniformity throughout the chamber. The temperature is microprocessor controlled and is monitored accurately by a Pt-100 RTD. It is set digitally and reproducibly from a membrane keypad and displayed by an LED to 0.1°C. The working temperature is from about 7°C above ambient to 80°C. An independent overtemperature thermostat protects valuable samples from overheating. The timer is programmable up to 99 hours or for continuous operation.

**The GYROMAX Incubator Shaker** features a triple-eccentric drive with counter-balancing weights for smooth and quiet shaking of heavy loads without the need for adjustments. A large, quiet fan ensures air temperature uniformity throughout the stainless steel chamber. A brushless, maintenance-free, drive motor generates digitally displayed speeds from 20 to 420 RPM. The standard shaking orbit of 25 mm provides a higher oxygen transfer rate (OTR) compared to shakers with a 19-mm orbit because OTR is directly proportional to orbit size. The shaking stops when the door is opened. The chamber lamp is turned on and off with a switch on the control panel. The shaker can accommodate Erlenmeyer flasks up to four liters.

**Optional Accessories Include:** platforms, clamps, spring racks, tube racks, plate holders, and a 30-port gassing manifold that permits direct gassing into flasks or other vessels. Platform holes are drilled to accommodate the different clamps purchased. The spring rack is designed for holding tubes in a horizontal, angled, or an upright position. It also can be used to hold flasks up to 1-liter without clamps. The rack consists of a 2-tier grid of springs. The distance between spring racks is adjustable to accommodate tubes and flasks of different heights. They are mounted onto the platform by four screws.

*Amerex Instruments, Inc.*

# GYROMAX™ 727 BENCHTOP INCUBATOR SHAKER

SPECIFICATIONS	727
Temperature Range	Ambient +7°C to 80°C
Temperature Control	PID microprocessor controller, Pt-100 RTD sensor
Accuracy/Uniformity	±0.1°C/±0.5°C at 37.0°C
Temperature Display	
Speed Range	25 to 400 RPM with standard 1" (25mm) orbit
Speed Display	Digital to ±0.1°C
Orbit	25mm (1") orbit provides higher oxygen transfer rate than 19mm
Timer	Programmable up to 99 hours or for continuous operation
Insulation	1.25" double-wall housing w/ polyurethane insulation minimizes heat loss
Safety Devices	An independent thermostat prevents overheating. Shaking stops when door is opened. Auto-restart after power failure.
Stacking	Two can be stacked to save space.
Drive	Dynamically balanced triple-eccentric drive with counter-balancing weights provides smooth and quiet shaking without the need to make inconvenient adjustments as weight of the load changes
Motor	Maintenance-free brushless motor
Shelf	One included, additional shelves optional
Viewing Window	Triple-pane 1.25" (30mm) thick
Spring Rack	Accommodates an accessory spring rack that can shake flasks up to 1-L without the use of clips or clamps as well as 15-mL or 50-mL tubes placed vertically or at 45° to the platform
Chamber Material	Stainless steel
Platform Dimensions	15"W x 15"D (380mm x 380mm)
Chamber Dimensions	17.7"W x 17.9"D x 17.3"H (450mm x 455mm x 440mm)
Overall Dimensions	20"W x 27.5"D x 30.5"H (510mm x 700mm x 770mm)
Power Source	120V (or 220V), 50/60Hz, 6A
Warranty	2 years

## Flask Capacity

Flask Size (mL)	25	50	125	250	500	1000	2000	2800	4000
Number of Flasks	49	36	25	16	9	5	4	2	1

## Accessories:

Holders for Tube Racks & Plates



Full Size Spring Rack



Platform with Custom Spring Rack and Other Accessories



Flask Clamps



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