

## **GYROMAX™ 747 ORBITAL INCUBATOR SHAKER**

***Incubate And Shake It To The Max...With GYROMAX!***



The GYROMAX™ 747 orbital incubator shaker is designed to accommodate as many clamps of a given size as that in a chest-type shaker, but has the advantage of accommodating shelves for incubation and the stacking of two units to save space. The double-walled construction, with 1.25" of insulation and a triple-paned, evacuated viewing 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 platinum 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 5°C above ambient to 80°C. Over-temperature cutoff devices protect the chamber from accidental overheating. A timer is programmable up to 99 hours.

A large, quiet fan ensures air and temperature uniformity throughout the stainless steel chamber. A brushless, maintenance-free drive motor generates speeds from 25 to 420 RPM that is displayed digitally. It also incorporates a built-in fan for operating at a low temperature, thereby prolonging the life of the motor. A triple-eccentric drive with counterbalancing weights provides smooth and quiet shaking. The shaking stops when the door is opened. The chamber is constructed of stainless steel. The chamber lamp is turned on and off with a switch on the control panel. The 26" x 21" platform can accommodate Erlenmeyer flasks up to 6 liters.

Optional accessories include platforms, clamps, and spring racks. Platform holes are drilled to accommodate the different clamps purchased. The spring rack is designed for holding tubes in a horizontal, angled, or upright position. It can also be used to hold flasks up to 1-liter without clamps. The rack consists of a 2-tiered grid of springs. The distance between the racks is adjustable so as to accommodate tubes and flasks of different heights. It is mounted on to the platform by four screws.

***Amerex Instruments, Inc.***

## **SPECIFICATIONS: GYROMAX™ 747 INCUBATOR SHAKER**

<b>Temperature Range</b>	About 5°C above ambient to 80°C
<b>Temperature Control</b>	Auto-tune PID microprocessor temperature controller
<b>Temperature Display</b>	Digital to 0.1°C
<b>Accuracy/Uniformity</b>	±0.1°C/±0.5°C
<b>Insulation</b>	1.25" all around chamber
<b>Stacking</b>	Two can be stacked and coupled to save space Note: When stacked, maximum RPM of top unit is reduced to 200 RPM or less.
<b>Shelf</b>	One supplied, additional shelves optional
<b>Viewing Window</b>	Triple-paned, 1.25" (30mm) thick
<b>Spring Rack</b>	Accommodates an optional 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 Falcon tubes placed horizontally, vertically, or at 45° to the platform
<b>Drive</b>	Dynamically balanced triple-eccentric drive eliminates the necessity of adjustments as the load changes.
<b>Motor</b>	Maintenance-free, brushless motor with a built-in cooling fan
<b>Speed Range</b>	20 to 440 RPM with standard 1" (25mm) orbit
<b>Speed Display</b>	Digital LED with direct speed sensor
<b>Chamber Dimensions</b>	28"W x 23"D x 23.6"H (713mm x 585mm x 600mm)
<b>Timer</b>	Programmable up to 99 hours
<b>Chamber Lamp</b>	Lamp independently controlled by outside control panel switch
<b>Platform Dimensions</b>	26"W x 21"D (660mm x 530mm)
<b>Overall Dimensions</b>	39.5"W x 28"D x 32.6"H (1094mm x 713mm x 830mm)
<b>Power Source</b>	120V, 50/60Hz, single phase, 8A
<b>Flask Size (mL)</b>	<b>50 125 250 500 1000 2000 2800 4000 6000</b>
<b>No. of Flasks</b>	<b>112 63 42 30 15 12 6 6 4</b>

***Amerex Instruments, Inc.***

P.O. Box 787, Lafayette, CA 94549  
Tel: (888) 263-7392 FAX: (925) 299-0745  
E-mail: [marketing@amerexinst.com](mailto:marketing@amerexinst.com)