

GYROMAX™ 747R ORBITAL INCUBATOR SHAKER

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



The GYROMAX™ 747R 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 4°C 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 counter-balancing 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™ 747R INCUBATOR SHAKER**

Temperature Range	4°C to 80°C
Temperature Control	Auto-tune PID microprocessor temperature controller, platinum RTD sensor
Temperature Display	Digital to 0.1°C
Accuracy/Uniformity	±0.1°C/±0.5°C
Insulation	1.25" all around chamber
Stacking	Two can be stacked and coupled to save space Note: When stacked, maximum RPM of top unit is reduced to 200 RPM or less, depending on flask sizes and capacity.
Shelf	One supplied, additional shelves optional
Viewing Window	Triple-paned, 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 Falcon tubes placed horizontally, vertically, or at 45° to the platform
Drive	Dynamically balanced triple-eccentric drive with twelve permanently lubricated bearings
Motor	Maintenance-free, brushless motor with a built-in cooling fan
Speed Range	20 to 420 RPM with standard 1" (25mm) orbit
Speed Display	Digital LED with direct speed sensor
Chamber Dimensions	28"W x 23"D x 23.6"H (713mm x 585mm x 600mm)
Timer	Programmable up to 99 hours
Chamber Material	Stainless steel
Chamber Lamp	Lamp independently controlled by outside control panel switch
Platform Dimensions	26"W x 21"D (660mm x 530mm)
Overall Dimensions	39.5"W x 28"D x 39.8"H (1094mm x 713mm x 1010mm)
Power Source	120V, 50/60Hz, single phase, 15A (220V available)
Flask Size (mL)	50 125 250 500 1000 2000 2800 4000 6000
No. of Flasks	112 63 42 30 15 12 6 6 4

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