

GYROMAX™ 737 & 737R ORBITAL INCUBATOR SHAKERS



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

GYROMAX™ 737 and 737R orbital incubator shakers are medium upright models with the added benefit of shelves for simultaneous incubation with or without shaking. The control panel is conveniently located near the top of the shaker to eliminate the need of a stand. The 1.25" of insulation, double-walled construction, and a triple-pane glass window minimize heat loss. This design, 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 digitally and reproducibly set from a membrane keypad and displayed by an LED to within 0.1°C.

The working temperature is 5°C above ambient to 80°C for the 737 and 4°C to 80°C for the 737R. To protect samples, an independent over-temperature thermostat prevents the chamber from accidental overheating; and in the 737R, another thermostat prevents overcooling. The timer is programmable for up to 99 hours or for continuous operation.

A large, quiet fan ensures air and temperature uniformity throughout the stainless steel chamber. A brushless, maintenance-free drive motor generates speeds from 20 to 400 RPM which is digitally displayed. At the same 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. A triple-eccentric drive with counter-balancing weights provides smooth and quiet shaking of heavy loads without the need for adjustments. The motor incorporates a built-in fan that lowers its operating temperature, thereby prolonging its life. The shaking stops when the door is opened. The chamber lamp is turned on and off with a switch on the control panel. The 20.5" x 17.8" platform can accommodate Erlenmeyer flasks up to 6 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™ 737 & 737R INCUBATOR SHAKERS

SPECIFICATIONS	737	737R
Temperature Range	5°C above ambient to 80°C	4°C to 80°C
Temperature Control	PID microprocessor temperature controller, platinum RTD sensor	
Temperature Display	Digital to 0.1°C	
Accuracy/Uniformity	±0.1°C/±0.5°C at 37°C	
Speed Range	20 to 400 RPM measured directly by a speed sensor for accuracy	
Display	Digital	
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 Features	Shaking stops when door is opened. An independent high-limit thermostat protects samples from overheating. An independent low-temperature thermostat (737R only) prevents samples from over-cooling. Auto-restart after power failure.	
Stacking	Two can be stacked and coupled to save space. When stacked the max RPM of top unit is 200 RPM.	
Control Panel	Located near the top of the unit for easy access and without the need of a stand	
Shelf	One supplied, 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 Falcon tubes placed horizontally, vertically, or at 45° to the platform	
Drive	Triple-eccentric drive with counter-balancing weights provides stable shaking without the need for adjustments as the load increases	
Motor	Maintenance-free, brushless motor with a built-in cooling fan	
Chamber Dimensions	24.5"W x 20.5"D x 23.6"H (615mm x 520mm x 600mm)	
Platform Dimensions	20.5"W x 18.0"D (520 mm x 450mm)	
Overall Dimensions	33.2"W x 23.6"D x 33.5"H (845mm x 600mm x 850mm)	33.2"W x 23.6"D x 39.8"H (845mm x 600mm x 1010mm)
Power Source	120V (or 220V), 50/60Hz, 12A	120V (or 220V), 50/60Hz, 15A

FLASK CAPACITY

Flask Size (mL)	25	50	125	250	500	1000	2000	2800	4000	6000
No. of Flasks	80	72	42	25	16	9	6	4	4	2

ACCESSORIES:

Holders for Tube Racks & Plates



Flask Clamps

Full Size Spring Rack



Platform with Custom Spring Rack and Other Accessories





Amerex Instruments, Inc.
P.O. Box 787, Lafayette, CA 94549
Tel: (925) 299-0743 Fax: (925) 299-0745
E-mail: marketing@amerexinst.com
Web: www.amerexinst.com