

Model HT-91002 w/Manual Knob Adjustments

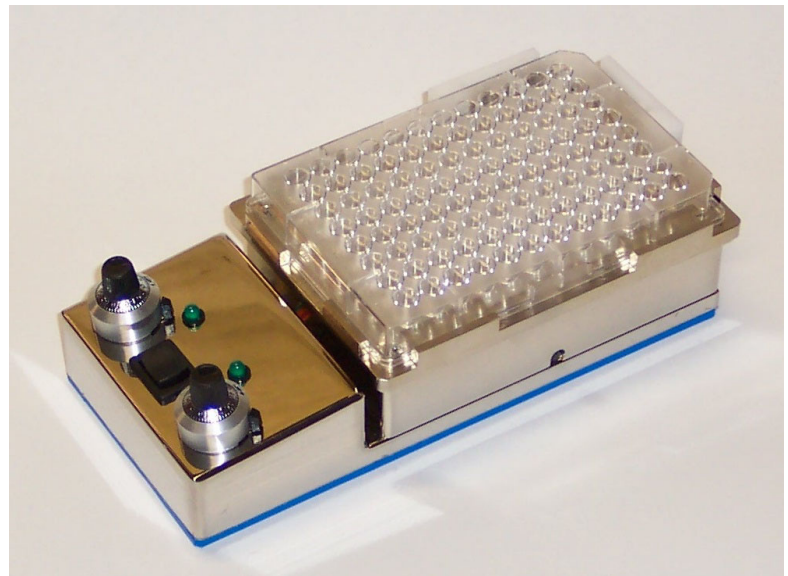
Microplate Orbital Shaker

For Biotechnology, Genomics and Proteomics Processing

The HT-91002 Microplate Orbital Shaker is designed to provide an orbital shaking motion for a single microplate, keeping liquids either gently stirred or fully mixed and in suspension. Two vernier 10-turn dials provide independent, manually adjustable orbital speeds for versatile lab use.

Features

- Rotationally shakes a single microplate.
- 0.5, 1 or 2 mm orbital motion.
- 2 selectable & adjustable speeds. 10-turn vernier, lockable speed dials. Switch selection, LED indication.
- Low stirring speed to ultra-vigorous vortex mixing speeds for viscous liquids.
- 100-240 VAC power adapter. Low 24VDC voltage for safe operation.
- Solid aluminum block base with urethane pad provides stable platform. No walking.
- Cold running motor allows continuous operation, weeks at a time.
- Small number of precision components for extreme reliability over years of use.
- Spring clips secure microplate; easy on and off for technician.
- Use the microplate's own cover to protect contents.



Description

This precision electronic shaker provides a tight 1 mm orbital pattern for standard 96 and 384 well plates and will not spill liquids at higher speeds. It is designed with two continuously variable speeds in the range of 60 to 3600 RPM, providing a gentle stirring motion for skin prevention, medium speeds to ensure liquids remain fully mixed and in suspension across all wells, and vortex mixing for microplate wells and micro tubes.

The footprint of the unique HT-91002 Orbital Shaker

is ideal for crowded laboratory or manufacturing environments.

Its solid aluminum construction with a urethane footing does not allow walking or bouncing, and the nickel plating ensures easy wipe down. It's been designed to allow spilled liquids to roll off with minimal bio-contaminants trapped.

Designed originally to enhance existing automation and robotics for genome sequencing and archiving applications, its tiny size and in-well mixing ability make it ideal for many biotechnology applications.

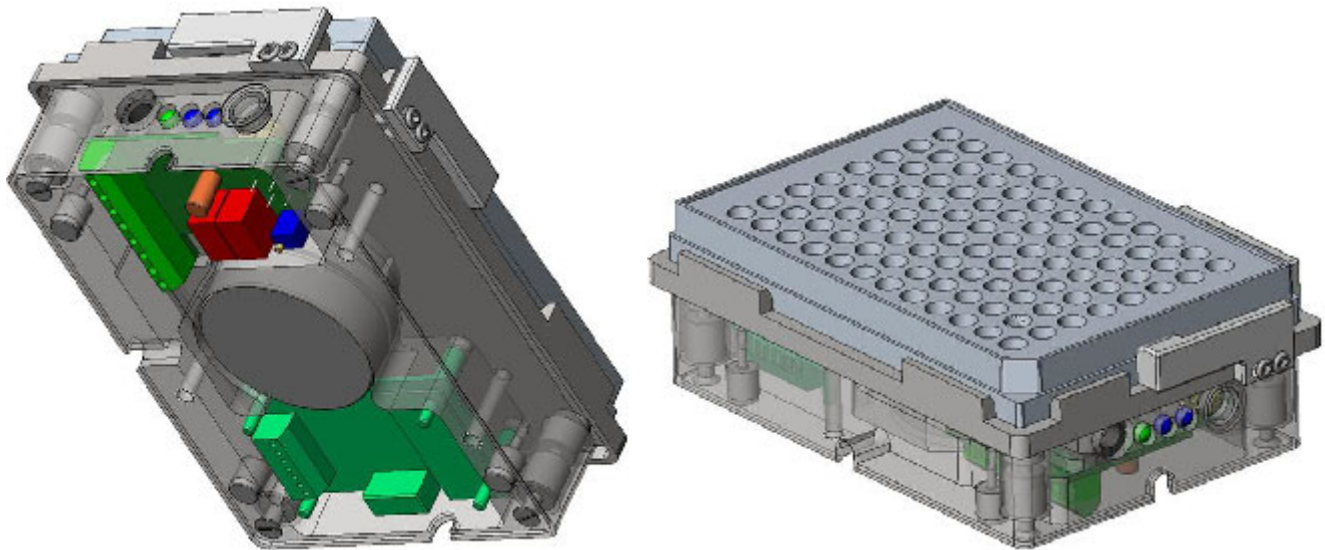
HT-91002 MICROPLATE ORBITAL SHAKER WITH MANUAL KNOBS

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Specifications

Orbital Motion	1.0 mm diameter, circular shape, constant everywhere on well plate. 0.5 and 2.0 mm optional.
Speed	60 RPM to 3600 RPM, 2 separately adjustable potentiometers for two independent speeds. Speed selectable by three-position panel switch (lo, off, hi)
Power Required	24VDC 180 mA; 100-240VAC 50-60 Hz power adapter included
Base Dimension	3.350" (85mm) width, 7.290" (185.2mm) length
Shaker Platform Dimension	3.650" (92.7mm) width, 5.300" (134.6mm) length, on top of base. Secures a single 96 or 384 micro well plate with SBS footprint.
Height	1.590" (40.4mm) height from bottom of urethane no-slip surface to top surface of shaker table platform. 2.110" (53.6mm) height from bottom of urethane surface to the top surface of a standard well plate.
Weight	2.40 pounds (1.08 kg)
Operating Temperature	0° F to 120° F (-17.5° C to 49.0° C), non-condensing, RH to 90%
Start-up Time	1.5 second to set speed
Mixing Speed	Speed varies based on your liquid viscosity. For 96 well plates water fully mixes in each microplate well at 1300 RPM, 2000 RPM for 384 well plates.
Material	Aluminum, nickel plated, stainless steel hardware, white polypropylene clips.
Warranty	Two year limited replacement warranty.

3D CAD Views



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Ordering Information

Standard Model:

Part Number: **Model HT-91002-1**, Microplate Orbital Shaker with Manual Knob Adjustments, 1 mm orbital motion, 100-240 VAC 50-60 Hz power adapter included, \$1225 USD Quantity 1

Optional Models:

Part Number: **Model HT-91002-0.5**, 0.5 mm orbital motion

Part Number: **Model HT-91002-2**, 2 mm orbital motion

Accessory Modifications per Model:

7500 RPM High Speed option, doubles shaker speeds.

Containment Clip Material option: Standard polypropylene clip replaced with Delrin, polyethylene or nylon.

Containment Clip For Lid option: Higher clip design accommodates wellplate lid along with well plate. Let us know the model and brand of wellplate.

Increased Weight option: Handle loads up to 3 lbs. (1.4 kg).




**RoHS
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