MINI ORBITAL-GENIE™ VARIABLE SPEED BENCHTOP ORBITAL SHAKER OPERATING INSTRUCTIONS

Models SI-M100 through SI-M106 and SI-M1500 through SI-1706



The MINI ORBITAL-GENIE[™] is designed to provide variable speed, multi vessel orbital shaking in a compact, durable and user friendly unit. Models SI-M100 thru SI-M105 have speed ranges of 20-100 RPM. Models SI-M1500 thru SI-M1505, SI-M1600 thru SI-M1605 and SI-M1700 thru SI-M1705 have speed ranges of 35-300 RPM.

OPERATING INSTRUCTIONS

We recommend you retain the original packaging for 90 days in case you need to return the product for any reason to your distributor or Scientific Industries.

Plug the line cord into a properly grounded electrical outlet. 120 VAC for the SI-M100, SI-M1500, SI-M1600 and SI-M1700 models; 220-240 VAC for the SI-M101, SI-M102, SI-M103, SI-M104, SI-M106, SI-M1501, SI-M1502, SI-M1503, SI-M1504, SI-M1506, SI-M1601, SI-M1602, SI-M1603, SI-M1604, SI-M1606, SI-M1701, SI-M1702, SI-M1703, SI-M1704 and SI-M1706 models; 100 VAC for the SI-M105, SI-M1505, SI-M1605 and SI-M1705 models.

The work surface on which the shaker is placed must be level, stable and non-slip.



MINI-100 ORBITAL-GENIE™ with Standard Platform (SI-M100)

The shaker is supplied with a durable thermoplastic platform with an anti-slip rubber mat (Fig.1). The platform has a molded raised edging that contains minor spills and keeps the work surface dry and clean. Place the vessels so that they do not touch each other. Position vessels evenly distributed on the platform. Uneven loading may result in excessive vibrating of the shaker and support table. Should this occur, reduce the speed or turn the shaker off and redistribute the vessels. The platform can accommodate up to 2 liter vessels with a 5 lbs load capacity. Stacking trays are available that increase the capacity of vessels that can be utilized (Fig.2). These trays also have an anti-slip rubber mat and raised molded edge.

MINI-300 ORBITAL-GENIE[™] *with Universal Ratcheting Clamps (SI-M1500)* The shaker is supplied with two ratcheting cushioned clamps (Fig.3) Position the two ratcheting clamps on the platform with sufficient space to fit the vessels. It is very

important to regularly monitor shaking cycles to ensure that the vessels remain firmly secure. Press the ratcheting clamps until the foam is compressed against the vessels (Fig.7). To release the ratcheting clamps, press the release arm and slide away (Fig.8).

MINI-300 ORBITAL-GENIE[™] *with Standard Flask Clamps (SI-M1600)* The shaker is supplied with a platform for accepting various size flasks or beakers (Fig.4). Flask clamps attach to the platform with captive mounting screws. Flask clamps

are sold separately. Position clamps evenly distributed on the platform. Uneven loading may result in excessive vibrating of the shaker and support table. Should this occur, reduce the mixing speed or turn the shaker off and redistribute the load of the vessels.

MINI-300 ORBITAL-GENIE™ with Adhering Mat (SI-M1700)

The shaker is supplied with an adhering rubber mat for use with bottles and dishes that cannot be held with conventional clamps (Fig.5). Patented material is naturally adhering. Rinse the rubber clean to renew adhering properties. Flasks clamps can be used on this unit by removing the adhering mat (Fig.6).







OPERATION

Power ON the **MINI ORBITAL-GENIE**[™] (rocker switch on front of housing). Select the speed by turning the speed control knob until the desired speed is attained.

SPECIFICATIONS

The **MINI ORBITAL-GENIE™** is classified as "Installation Category 2", "Overvoltage Category 2" and "Pollution Degree 2". Environmental: 0°C - 38°C (32°F-100°F), 95% Humidity max. Indoor use only in elevation up to 2000m of altitude.





SI-M100		60HZ	0.50A	SI-M104		1.0	0.25A
SI-M1500		60HZ	0.50A	SI-M1504		1.0	0.25A
SI-M1600		60HZ	0.50A	SI-M1604		1.0	0.25A
SI-M1700		60HZ	0.50A	SI-M1704		1.0	0.25A
SI-M101		50HZ	0.25A	SI-M106	\frown	1.0	0.25A
SI-M1501		50HZ	0.25A	SI-M1506	(\mathbf{r})	1.0	0.25A
SI-M1601		50HZ	0.25A	SI-M1606		1.0	0.25A
SI-M1701		50HZ	0.25A	SI-M1706		1.0	0.25A
SI-M102	25	50HZ	0.25A	SI-M105		50/60HZ	0.50A
SI-M1502		50HZ	0.25A	SI-M1505		50/60HZ	0.50A
SI-M1602		50HZ	0.25A	SI-M1605		50/60HZ	0.50A
SI-M1702		50HZ	0.25A	SI-M1705		50/60HZ	0.50A
SI-M103	_	50HZ	0.25A				
SI-1503	(-'-)	50HZ	0.25A				
SI-1603		50HZ	0.25A				
SI-1703		50HZ	0.25A				

MINI-100 ORBITAL-GENIE™

Weight: 3.5 Kg (7.8 lbs) Dimensions: (DxW) 350 x 350mm, (14 x 14in) Orbit: 19mm diameter

MINI-300 ORBITAL-GENIE™

Weight: 10.25 Kg (22.6 lbs) Dimensions M1500: (DxW) 350 x 350mm, (14 x 14in) Dimensions M1600 & M1700: (DxW) 330 x 330mm, (13 x 13in) Orbit: 19mm diameter



CAUTION! Do not lift your MINI ORBITAL-GENIE™ Shaker by the clamping platform.

CAUTION! If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.



CAUTION! Unplug from power before cleaning. Do not immerse.

CAUTION! Do not position the equipment so that it is difficult to disconnect the power cord.

CAUTION! This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Care and Handling

Your **MINI ORBITAL-GENIE™** should be given the care normally required for any electrical appliance. Unplug unit and wipe housing with damp cloth and detergent. Blot any spills immediately.

Parts Assembly List

To order parts for the MINI ORBITAL GENIE[™] Shaker:

Contact your local distributor or visit www.scientificindustries.com. Please specify Part No., quantity and electric voltage.



Mini Orbital Genie™ is a registered trademark of Scientific Industries Inc. © Scientific Industries Inc. 2016