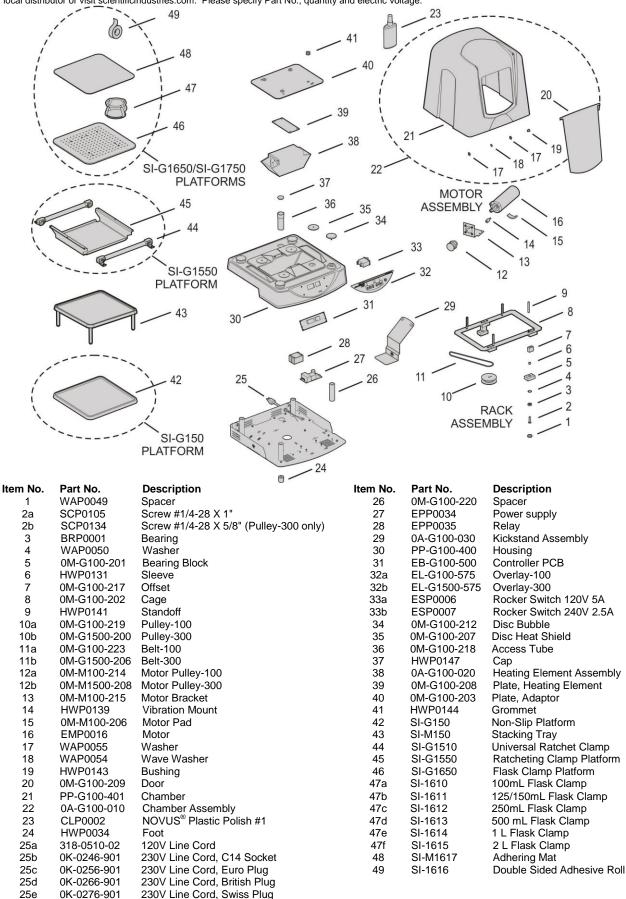
Parts Assembly List

To order parts for the GENIE TEMP-SHAKER™:

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



NOVUS[®] is a registered trademark of NOVUS Plastic Polish Genie Temp-Shaker™ is a registered trademark of Scientific Industries Inc. © Scientific Industries Inc. 2018

0K-0286-901

100V Line Cord

25f

GENIE TEMP-SHAKER[™] ORBITAL SHAKING INCUBATOR OPERATING INSTRUCTIONS Models SI-G100 through SI-G106 and SI-G1500 through SI-G1706



scientificindustries.com

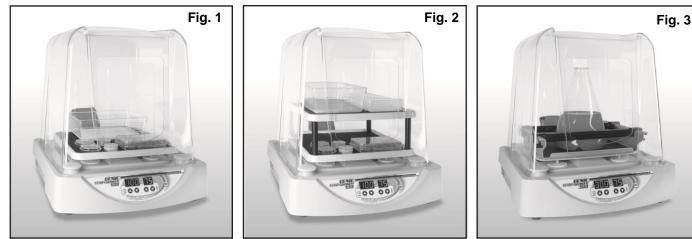
The GENIE TEMP-SHAKER[™] is designed to provide environmentally controlled, variable speed, multi vessel orbital shaking in a compact, durable and user friendly unit. Chamber air is gently and continuously circulating at a rate that ensures the temperature consistency and uniformity of all test samples. Microprocessor control easily achieves desired speed and temperature (28°C to 75°C) which are shown on large, easy to read displays for accurate reproducible conditions. Visible and audible alarms exist for temperature. Models SI-G100 thru SI-G106 have speed ranges of 20-100 RPM. Models SI-G1500 thru SI-G1506, SI-G1600 thru SI-G1606 and SI-G1700 thru SI-G1706 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.

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



GENIE TEMP-SHAKER™ 100 with Non Slip Platform

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 2.3 Kg (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.

GENIE TEMP-SHAKER™ 300 with Ratcheting Clamp Platform

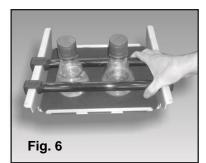
The shaker is supplied with two ratcheting cushioned clamps (Fig.3) Position the two ratcheting clamps on the platform with sufficient space to fit the vessels. It is very important to regularly monitor shaking cycles to ensure that the vessels remain firmly secure. Press the ratcheting clamps together until the foam is compressed against the vessels (Fig.6). To release the ratcheting clamps, press the release arm and slide away (Fig.7).

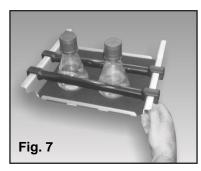
GENIE TEMP-SHAKER™ 300 with Flask Clamp Platform

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.

GENIE TEMP-SHAKER™ 300 with Adhering Mat Platform

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.









OPERATION

The unit can be turned on/off by pressing the start/stop button. When the unit is first turned ON (rocker switch on right side of housing) the heater and fan will turn on and begin regulating toward the set temperature. During this time, the temperature display will blink green. The display will become solid green after achieving the desired temperature.

Pressing the Up/Down Arrow buttons in the temperature control area allows you to change the desired temperature. While adjusting temperature, the display will be amber in color.

If there is a change of $\pm 2^{\circ}$ C, the display will turn solid red. At $\pm 3^{\circ}$ C deviation, the display will blink red. At $\pm 4^{\circ}$ C the display will blink red and the alarm will sound. UP and DOWN buttons in the speed area are used for changing the speed value. While adjusting speed, the display will be amber in color. The display will turn back

to solid red shortly after the button is released.

START/STOP button is used for starting/stopping the operation.

CALIBRATION

The unit is electronically factory calibrated and should not need calibration, nor is it recommended. However, should the need arise, the unit may be calibrated, as follows:

In order to calibrate, you will need to make an independent measurement of the chamber temperature. Make sure the thermometer is accurate! Generally speaking, glass thermometers found around the lab will be less accurate than your **GENIE TEMP-SHAKER**[™]. Good, certified glass or digital thermometers are available from laboratory supply dealers. A thermocouple wire may be passed through the access port (rear/underside of unit).

Measure the temperature in the chamber via the lab thermometer, after chamber temperature has been allowed to settle for twenty minutes. Note the difference in temperature between **GENIE TEMP-SHAKER**TM displayed temperature and your lab thermometer temperature (ex. **GENIE TEMP-SHAKER**TM display reads 37°C, lab thermometer reads 38°C; difference is -1° C). This difference is the calibration value to be entered.

To access the calibration menu, simultaneously press and hold the UP ARROW button in the temperature control area and the START/STOP button while turning the unit ON.

The parameters on the display show:

TEMPERATURE: The temperature blinks amber and begins adjusting to reach the last temperature setting. Once there, it changes to solid amber.

SPEED: 0 – The speed readout displays "0" in an amber color and can be adjusted \pm 9 for each °C desired. Press the START/STOP button to exit calibration mode.

SPECIFICATIONS	Weight: 9 Kg (20 lbs.)		
	Dimensions: (WxD) 450 x 480mm (17.6 x 19 in.)		
The GENIE TEMP-SHAKER™ is classified as "Installation Category 2",	Orbit: 19mm		
"Overvoltage Category 2" and "Pollution Degree 2".	Temperature: 28°C to 75°C		
Environmental: 0°C - 38°C (32°F-100°F), 95% Humidity max.	Platform: 305mm x 305mm (12 x 12 in.)		
Indoor use only in elevation up to 2000m of altitude.	Chamber Height: 305mm (12 in.)		
, ,	Chamber Volume: 40 L (2400 cubic inches)		

SI-G100		60HZ	0.50A	SI-G104	1	1.0	0.25A
						-	
SI-G1500		60HZ	0.50A	SI-G1504		1.0	0.25A
SI-G1600		60HZ	0.50A	SI-G1604		1.0	0.25A
SI-G1700		60HZ	0.50A	SI-G1704		1.0	0.25A
SI-G101		50HZ	0.25A	SI-G106	\frown	1.0	0.25A
SI-G1501		50HZ	0.25A	SI-G1506		1.0	0.25A
SI-G1601		50HZ	0.25A	SI-G1606		1.0	0.25A
SI-G1701		50HZ	0.25A	SI-G1706		1.0	0.25A
SI-G102	5	50HZ	0.25A	SI-G105	-	50/60HZ	0.50A
SI-G1502	┙╸●╺┕	50HZ	0.25A	SI-G1505		50/60HZ	0.50A
SI-G1602	1 1	50HZ	0.25A	SI-G1605		50/60HZ	0.50A
SI-G1702		50HZ	0.25A	SI-G1705		50/60HZ	0.50A
SI-G103		50HZ	0.25A				
SI-G1503		50HZ	0.25A]			
SI-G1603		50HZ	0.25A]			
SI-G1703		50HZ	0.25A				

CAUTION! Do not lift your GENIE TEMP-SHAKER™ by the 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 & HANDLING

Your **GENIE TEMP-SHAKER™** 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. We recommend cleaning the clear dome with Novus Plastic Polish #1 and a clean soft cloth. Alternatively, mild soap or detergent and luke warm water may be used. Do not dry rub the clear dome as scratching will occur.

