

MICROPLATE GENIE®

TIMED MICROPLATE MIXER

OPERATING INSTRUCTIONS

Models SI-0400 THROUGH SI-0406



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The MicroPlate Genie® has been optimized for use with almost any microplate, regardless of type or material of construction. The orbit of motion and the speed have been changed to achieve consistent mixing within all microplate wells. VORTEX-GENIE mixers are the "Gold Standard" for laboratory mixers and the quality and reliability that you have come to know so well are characteristics that are by design, an integral part of all GENIE® products.

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.

1.0 - Plug the line cord into a properly grounded electrical outlet.
(120 VAC for the SI-0400 model; 230 VAC for the SI-0401 through SI-0404 and SI-0406 models; 100 VAC for the SI-0405 model)

2.0 - Place a microplate into the MicroPlate Genie. Tip the microplate slightly down to the left and back, and bank the corner into the two rubber bumpers. It is not necessary to tilt the plate excessively. Push the plate the rest of the way down onto the top of the MicroPlate Genie and release. The right side of the microplate will be held in place by the beveled edge on the right side.

3.0 - The MicroPlate Genie mixer has the following modes of operation:

3.1 - TIMED MODE- (1 to 60 minutes)

The Timed Mode allows for unattended operation that is timed from 1 to 60 minutes. To initiate timed operating mode, with the microplate in place, set the 1 to 60 minute timer (gray knob and gray scale) to the desired run time. *The MicroPlate Genie is OFF until the push-button is depressed and then released. This will start the mixing action of the MicroPlate Genie.* The mixer will run until the set time has elapsed. If for any reason you wish to stop the mixing action before the set time has elapsed, simply depress the push-button for a second time and release. The mixer will stop. Depressing the push-button a third time will initiate a completely new timed cycle.

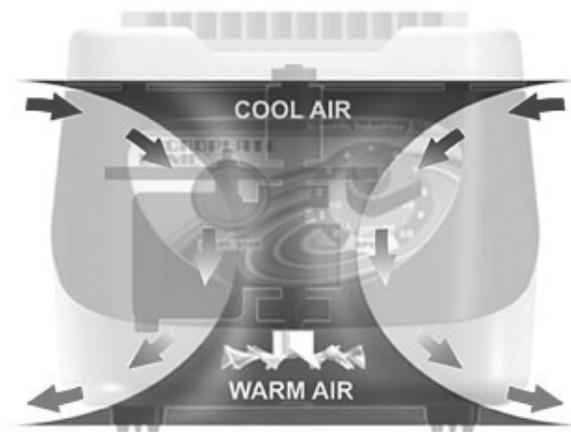


3.2 - CONTINUOUS MODE

The continuous mode allows for unattended operation that will continue indefinitely until you stop the run by depressing the push-button switch. To initiate Continuous Mode, turn the gray timer knob fully counter-clockwise until you feel the "click" and the knob is in the detent "TIMER OFF" (*continuous mode*) position. Next, depress the push-button switch and release. The MicroPlate Genie® mixer will start and continue to run, unattended, until you once again depress the push-button switch and release. If you wish to restart the mixer once again, simply depress the push-button switch for a moment and release.

Note: The speed control switch should be set between positions 3 and 10 to enable the mixing action to start. After the action has started, you may, if desired, reduce the speed below position 3 for the duration of the run. Before re-starting the mixer, re-set the speed control to a setting higher than position 3.

4.0 - With prolonged use, the MicroPlate Genie mixer may become warm to the touch. It **should not get HOT** to the touch. The motor will radiate a certain amount of heat that will be dissipated by the fan in the bottom of the unit.



Heat will not be transferred to your microplates. The fan (located in the bottom of the unit) directs air downward and out of the unit. As a result, room air is constantly drawn into the unit underneath the tray that holds the microplates, insuring that samples will not be heated.

⚠ CAUTION! Do not lift the MicroPlate Genie® by the tray.

⚠ CAUTION! Failure to follow these operating instructions can compromise the user's safety.

Care and Handling

The MicroPlate Genie mixer should be given the care normally required for any electrical appliance. Avoid wetting or unnecessary exposure to fumes. The finish can be washed with water (after unplugging) and soap or detergents, using a cloth or sponge. Keep the unit clean by immediately blotting any spills. Replacement parts are available through most laboratory equipment distributors or directly from Scientific Industries.

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

⚠ CAUTION! Do not use MicroPlate Genie in hazardous atmospheres or with hazardous materials.

⚠ CAUTION! Do not use MicroPlate Genie to mix flammable materials.



SPECIFICATIONS

The MicroPlate Genie mixer is classified as "Installation Category 2"
Environmental: 0°C - 38°C (32°F-100°F), 95% Humidity max.

MODEL	POWER	REQUIRED AMPS
SI-0400	120V	0.65
SI-0401	230V No Plug	0.5
SI-0402	230V Euro Plug	0.5
SI-0403	230V British Plug	0.5
SI-0404	230V Swiss Plug	0.5
SI-0406	240V Australian Plug	0.5
SI-0405	100V	1.0

Speed:	Approx. 750-3200 RPM (60Hz) Approx. 750-2700 RPM (50Hz)
Time:	1 - 60 minutes or continuous
Vortexing Orbit:	1.0mm diameter
Maximum Load:	0.5 Kg (1.1 lb)
Weight:	2.6 Kg (5.7 lb)
Shipping Weight:	3.2 Kg (7.0 lbs)
Dimensions (D x W x H):	165 x 180 x 140mm (6.5 x 7.0 x 5.5in)