

**NON-TIMED (CONTINUOUS)**

Press and hold the DOWN arrow button beneath the TIME window until the illuminated display reaches “00.00”. Press the RUN/STOP button to begin the shaking action. The timer will count up from 00.00 to 99.59 and then wrap back to 00.00.

**SPEED**

Set the speed control by pressing the UP/DOWN arrow beneath the SPEED window to any value between 10 RPM and 300 RPM.

**REVERSING and ACCELERATION/DECELERATION**

To modify the ACCELERATION/DECELERATION ramp speed and REVERSING TIME, press and hold the NORMAL/REVERSE button for 2 seconds. The TIME and SPEED displays will flash (Fig.7). The left display is reversing time. The right display is acceleration/deceleration rate. Use the UP/DOWN arrows on the left side to change the time between reversing (minutes and seconds – from one second to 99 minutes) and the arrows on the right side to change the acceleration/deceleration speed value from 10 to 100 RPM/SEC. The new value will be applied immediately and memorized upon key release. This mode (flashing) will be exited automatically after 10 seconds or by pressing the NORMAL/REVERSE button once. By modifying these values, you can change the nature of mixing action from smooth vortexing to sloshing aeration, or anything in between.



Fig. 7

REVERSE mode toggles the shaker between operating in only one direction, and switching directions at regular intervals. To initiate the REVERSE mode, press the NORMAL/REVERSE button. The REV/INT indicator will light (Fig 8). Press the RUN/STOP button to begin the mixing action.



Fig. 8

Please note that if you set acceleration to lower values, in combination with short reversing or cycle times, the unit will limit the maximum speed setting to values that are achievable (ie: reversing time of 5 seconds with acceleration/deceleration of 10 RPM/second – unit will only allow maximum speed of 25 RPM – 2.5 seconds of acceleration at 10 RPM/second and 2.5 seconds of deceleration at 10 RPM/second).

Also note that, for safety reasons, when pressing the RUN/STOP button to end a cycle (instead of letting the timer stop the unit), maximum deceleration (100RPM/second) is used .



Fig. 9

In between shaking cycles, the platform can move freely. To lock the movement of the platform (for ease of loading vessels) press and hold the RUN/STOP button and simultaneously press the NORMAL/REVERSE button. The shaking platform will lock. See Fig. 9 for display readout. Initiating a shaking cycle will exit this mode.

**INTERVAL**

Orbital-Genie can be programmed to run for an arbitrary length of time (1 minute to 99 hours), pause for a length of time (also 1 minute to 99 hours) and repeat. This repeating can go on indefinitely or stop when the timer runs down to zero

To initiate the INTERVAL mode, press the INTERVAL button. The REV/INT indicator will light (Fig 8). The right led will display "On". The left led will begin flashing and display the time that the unit will run between pauses. Set the time you would like (1 min. to 99 hrs.), and press the interval button again. The right led will display "OFF". The left led will flash and display the time that the unit will pause between running. Set the time you would like (1 min. to 99 hrs.), and press the interval button again. Press the RUN/STOP button to begin the mixing action.

**SPECIFICATIONS**

The ORBITAL-GENIE™ Shaker is classified as “Installation Category 2”

Environmental: 0°C – 38°C (32°F-100°F), 95% Humidity max.

MODEL	POWER REQUIRED	AMPS	MODEL	POWER REQUIRED	AMPS
SI-1500	120V	2.0	SI-1703	230V British Plug	1.0
SI-1600	120V	2.0	SI-1504	230V Swiss Plug	1.0
SI-1700	120V	2.0	SI-1604	230V Swiss Plug	1.0
SI-1501	230V No Plug	1.0	SI-1704	230V Swiss Plug	1.0
SI-1601	230V No Plug	1.0	SI-1506	230V Australian Plug	1.0
SI-1701	230V No Plug	1.0	SI-1606	230V Australian Plug	1.0
SI-1502	230V Euro Plug	1.0	SI-1706	230V Australian Plug	1.0
SI-1602	230V Euro Plug	1.0	SI-1505	100V	2.5
SI-1702	230V Euro Plug	1.0	SI-1605	100V	2.5
SI-1503	230V British Plug	1.0	SI-1705	100V	2.5
SI-1603	230V British Plug	1.0			

Weight: 21 Kg (46 lbs)

Base Dimensions: (DxW) 590 x 500mm, (23 x 20in)

Orbit: 35mm diameter

**Care and Handling**

Your ORBITAL-GENIE™ Shaker 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 your laboratory equipment distributor or directly from Scientific Industries. Refer to “Parts Assembly List”.

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

**CAUTION!** Failure to follow operating instructions can compromise the user’s safety.

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