

INSTRUCTION MANUAL

CAT. 61042-12, 61042-20, 61042-EU, 61042-BR, 61042-SW, 61042-AU, 61042-10

Microplate Genie – Microplate Mixer – Digital



Electron Microscopy Sciences
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Introduction:

With prolonged use, the Digital Microplate Genie mixer may become warm to the touch. The motor will radiate a certain amount of heat that will dissipate by the fan in the bottom of the unit. Heat will not be transferred to your microplates. The fan 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:

CAUTION – Do not lift the Microplate Genie by the tray.

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

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.

Care and handling:

Avoid wetting the Microplate Genie or exposing it to unnecessary fumes. After unplugging, you may wash the finish with water and soap or detergents with the use of a cloth or sponge. For best cleaning results, clean any blotting or spills immediately. For replacement parts, contact Electron Microscopy Sciences.

The Digital Microplate Genie mixer is a version of the Original Vortex-Genie mixer. The Digital Microplate Genie has been created for use with almost any microplate. The orbit of motion and the speed have been changed to achieve consistent mixing within all microplate wells.

Operating instructions:

We recommend holding onto the original packaging for at least 90 days in the case that a return is needed for any reason.

1. Plug the line cord into a properly grounded electrical outlet. Numbers will light up and appear in the TIME and SPEED windows, which indicates that the unit is ON and ready for use.
2. Place a microplate into the Digital Microplate Genie. Tip the microplate slightly down to the left and back, and bank the corner into the two rubber bumpers. Tilting the plate excessively is not necessary. Push the plate the rest of the way down onto the Digital Microplate Genie and release. The right side of the microplate will be held in place by the beveled edge on the right side.

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3. The Digital Microplate Genie mixer has the following modes of operation:
- TIMED VORTEXING (1-99 minutes):** The left display is time (in minutes) until automatic stopping of the unit. The right display is the set speed. "UP" represents the top end speed of the mixer. To activate the "UP" speed setting, press the "UP" arrow button beneath the SPEED window until maximum speed is displayed. Release the UP arrow button and press it again. "UP" will appear in the display window. Press the START/STOP button to initiate a mixing cycle. Press "START/STOP" button to start the unit. When the unit is running, actual speed will be displayed.
 - CONTINUOUS VORTEXING:** Set time to "0" for continuous (non-timed) operation. Display will read "—". Press the "START/STOP" button to begin the mixing action. The mixer will run continuously. To stop the cycle, press the "START/STOP" button. To initiate a new continuous cycle, press the START/STOP button again.
 - PULSED VORTEXING:** This mode of operation will work in CONTINUOUS or TIMED modes. To initiate the pulse "ON" mode, press the "PULSE" button until "ON" is illuminated beneath the word "PULSE". The TIME and SPEED displays will begin flashing. When display is flashing, you are setting the pulse "RUN" time (left display) and the pulse "STOP" time (right display). The "TIME" setting can range from 1/10th of a second to 99 minutes. When the rightmost decimal point is displayed, the setting is in seconds. When the rightmost decimal point is NOT displayed, the setting is in minutes. A setting of 0-1 second is adjusted in 1/10th of a second increments; 1-60 seconds are adjusted in 1 second increments; 1-10 minutes are adjusted in .5 minute (30 second) increments; 10-99 minutes are adjusted in 1 minute increments. Set the desired pulse "RUN" time. Next, set the desired pulse "STOP" time. Wait for the TIME and SPEED displays to stop blinking, It is recommended to set the speed to "UP" when using the pulse mode with "RUN" times of less than 5 seconds. "UP" represents the top end speed of the mixer. To activate the "UP" speed setting, press the up arrow button beneath the speed window until maximum speed is displayed. Release the up arrow button and press it again. "UP" will appear in the display window. Press the "START/STOP" button to initiate a mixing cycle.

PLEASE NOTE: When using the pulse mode with "RUN times of less than 5 seconds, SET speed will be displayed with the unit is running, instead of actual speed.

- "SLEEP": The mixer will automatically turn off (sleep mode) if the mixer is plugged in but not used for 10 minutes. The TIME and SPEED illuminated displays will go blank. Press the START/STOP button to "wake" the mixer.

PLEASE NOTE: The speed control can be adjusted up or down during the mixing cycle, however, the TIME can only be adjusted before the cycle begins.

