



BenchMixer MP™ Microplate Vortexer

Model BV1007 (BV1007-E)

Instruction Manual



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Introduction:

The BenchMixer MP is a high-speed vortex capable of mixing all types of microplates, 1.5/2.0mL tubes, 15mL tubes, and 50mL tubes. It comes with a standard cuphead and attachments for microplates and various-sized tubes. It can be used for “touch” operation or “continuous” operation. The instrument comes equipped with a timer and digital speed control. It has a simple, compact design to maximize benchtop space.

Included:

1x BV1007	BenchMixer MP
1x BV1007-HEAD	Standard cuphead
1x BV1007-HOLDER	Plate holder
1x BV1007-1520	Foam insert for 1.5/2.0mL tubes
1x BV1007-150	Foam insert for 15mL tubes
1x BV1007-500	Foam insert for 50mL tubes

Safety Guidelines:

Please read this manual prior to operating the instrument and consider the following safety guidelines

- Always use the original power adapter when powering the instrument.
- The instrument should be placed on a level, flat surface.
- The instrument provides a small orbital mixing motion, to prevent liquid overflow/spillage, please use lids/covers when mixing.
- Always ensure that the item is power off prior to attaching any tube racks or holders.
- In the event of liquid overflow, wipe and dry surfaces before operating again.
- DO NOT move the instrument while it is operating.
- Be sure to secure attachments before operating.
- The oscillation of the sample volume should not exceed the maximum load of the instrument.

Specifications:

Model	BV1007
Speed Range	200-3,000 rpm
Motion	Orbital
Dimensions	8.9x5.3x2.2 in. / 22.6x13.4x5.5 cm.
Load Capacity	1 kg / 2.2 lbs
Operating Modes	“touch” or “continuous”
Weight	4 kg / 8.8 lbs
Electrical	115V/240V, 20W
Warranty	2 years

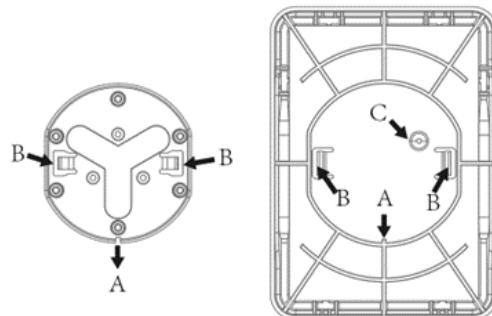
Installation:

Upon receiving the instrument, please inspect for any damage that might've occurred during shipping. In the event of damage, please notify the supplier prior to operating the instrument.

1. Place instrument is on a flat and stable surface.
2. Plug power cord in port located on the back of the instrument.
3. Make sure power switch is OFF.
4. Select the desired attachment (cuphead or microplate holder).

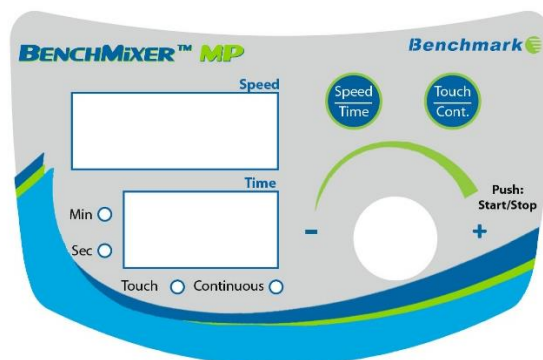
- To install cup head, simply place rubber attachment over the center platform. There should be a lip on the rubber cuphead that secures it onto the platform.

- To install the microplate holder, fix one side first by placing the plastic tab onto the hole in the platform. Then push the other side's tab down into the hole opposite from the first. An audible “click” will be heard when securely attached. (corresponding parts marked as “B” in image below)



The instrument can now be powered.

Operation:



- **Speed/Time:** to adjust speed or time, press down on “speed/time” button. The timer display will continue flashing until a value is selected. Select a value for seconds using the dial. To switch to minutes, press the “speed/time” button again. Select a value for minutes using the dial. Once the timer is ready to be set, wait ~3 seconds for the display to stop flashing. Once complete, the speed can be adjusted using the dial.
- **Switch Modes:** to switch between “touch” and “continuous” modes, press down on the “touch/continue” button.
- **Continuous Mode:** once time and speed values have been set, press down on the “start/stop” to begin vortexing. The instrument will begin to vortex, and once it reaches the set speed, the timer will begin. To stop the vortex pressing down on the “start/stop” button or wait for the timer to end.
- **Touch Mode:**
 - **Universal tube holder:** set speed value using the “start/stop” dial. Then using your tube, press down directly onto vortex. Instrument will speed up to the set value and continue to operate until tube is released.
 - **Microplate / multi-tube holder:** set speed value using the “start/stop” dial. Then press down and hold the “start/stop” dial. The instrument will speed up to the set speed and continue to operate until the “start/stop” dial is released.

Maintenance and Service:

No routine maintenance is required for this instrument other than regular cleaning. Cleaning can be performed using a damp cloth or a 70% isopropyl alcohol solution. Avoid the use of solvents that can attack the rubber cup head or plastic housing.

Fault:	Alerts:	Reason:
Device cannot be turned on	Device light does not turn on	Power supply failure: power supply is not plugged in properly or switching power supply is defective; or failure to internal circuit board
Equipment does not operate (error alarm)	Speed indicator: 0001	Partial; circuit board failure
	Speed indicator: 0002	Motor failure



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