



## Operations Manual Item: BV1003

### BenchMixer™ II Vortex Mixer



#### Introduction:

Benchmark's BenchMixer™ II Vortex Mixer is a quiet, powerful, mixer designed for vortexing laboratory samples as large as 50ml. With the unique, reversible cup head, the user has the choice of a 'flat-style', or "cupped-style" top surface (patent pending).

#### I. Specifications:

**Speed / Control:** User settable 200 to 3200 rpm

**Modes:** ON (continuous), OFF and TOUCH mix

#### **Included Head Attachment:**

Reversible Rubber Cup Head (BV1003)

**Feet:** Four no-walk suction cup,

**Orbit:** 3mm.

**Dimensions** (wxdxh):

5.2 x 6.7 x 6.7 in. 13.2 x 17 x 17cm, Weight: 3.8kg

**Electrical:** 115VAC, 60Hz, 1.5 amps (115V Model)  
230VAC, 50Hz, 0.75 amps (230V Model)

**Operating environment:** 4° C to 45° C;

**Warranty:** 2 years

#### II. Product Set-Up:

Place the vortex mixer on a clean, flat, stable surface and press down slightly to allow the suction cup feet to adhere. Make sure that the mode switch is in the OFF position and plug the vortex mixer into a properly grounded outlet. Using the SPEED control knob, adjust the mixing speed to the desired setting. Start at the middle of the speed range if you are uncertain of what setting you need. Check that the cup head is securely fastened by gently rotating it clockwise.

#### III. Product Operation:

Set the mode switch to the desired setting of ON (continuous mixing) or TOUCH. In touch mode the tube to be mixed is pressed downward against the head to activate the vortex mixing action. Touch the tube to be mixed to the head and observe the vortex mixing action. Adjust the SPEED knob to obtain more or less vortex mixing action.

#### IV. Care and Maintenance:

No routine maintenance is required other than to keep the unit clean. Cleaning can be done with a damp cloth. Avoid the use of solvents as they may attack the rubber cup head or the ABS plastic housing.

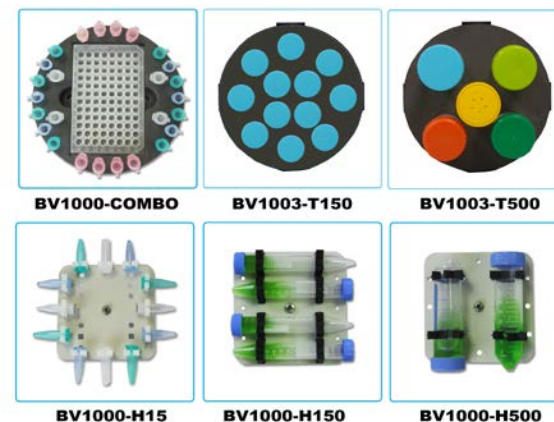
#### V. Reversible Head Installation and Removal:

To reverse the orientation of the rubber head, place your thumb beneath the rubber tab that protrudes from the rubber part. Pull the rubber head upward to remove it from the black plastic "cradle". Flip the head over and install it into the black plastic cradle so that the two rubber tab (protrusions) align with the two openings of the cradle. Press firmly so that the rubber head is fully installed beneath the lip of the cradle.

To remove the entire head (cradle and rubber), hold the vortexer in place with your left hand and then gently rotate the cradle counter clockwise with your right hand until the head is completely unscrewed.

#### VII. Accessory Heads:

Optional accessory heads are available including a unique combo head which holds up to 60 small tubes or one micro plate. Please contact your dealer for information on any of these optional accessory heads. (Note: the maximum speed may be reduced when attaching the optional accessory heads.)



#### Service and Contact:

In the event that service or technical support is required, please contact **Benchmark** by phone at **1-908-769-5555** or by email at [info@benchmarkscientific.com](mailto:info@benchmarkscientific.com).

