



## Operations Manual Item: BV1000 & BV1005

### BenchMixer™ & Mortexer™ Vortex Mixers



BV1000



BV1005

#### Introduction:

Benchmark's BenchMixer™ Vortex Mixer and Mortexer™ Vortex Mixer are quiet, powerful, mixers designed for vortexing micro tubes of all sizes (0.4ml to 50ml and larger). It combines dynamic balance technology with an electronic speed control to provide smooth speed control and quiet operation with low excess vibration. These Vortex Mixers will provide years of reliable service.

#### I. Specifications:

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

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

#### Included Head Attachment:

Standard Rubber cup (BV1000)

CombiHead™ with standard cup & 8 x 1.5ml (BV1005)

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

**Orbit:** 3mm.

**Dimensions** (wxdxh): 13x16x17cm, 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. Head Removal and Replacement:

To change or replace the rubber head attachment, grasp the unit body with your left hand and then gently rotate the head attachment counter clockwise with your right hand until the cup head is completely unscrewed. Replace the head attachment by gently rotating clockwise until it is tight and you feel the rubber start to grip the top of the dynamic drive assembly.

Note: attaching accessory heads requires the use of a Phillips screwdriver to tighten the center screw in the accessory head.

#### VII. Accessory Heads:

Accessory heads are available including a Flat Head for multiple tube mixing, a Combo Head which holds up to 60 small tubes or one micro plate. Please contact your dealer if you need one of these accessory heads.



BV1000-FLAT

BV1000-COMBO



BV1000-H15

BV1000-H150

BV1000-H500

#### 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).

