



## Operations Manual Item: B3D1020 & B3D1320 V1.0

### BioMixer™ 3D (Nutating) Rockers



#### **Introduction:**

Benchmark's MiniMixer™ and BioMixer™ are nutating mixers with their angle and speed set for gentle, but thorough, no/low foam tube mixing and other nutating mixer applications. The MiniMixer™ comes with an ample 27.1 x 19.6 cm (10.5" x 7.5") platform and the BioMixer™ comes with a larger 30.0 x 30.0 cm (12" x 12") platform. Both are supplied with dimpled rubber mats to hold tubes. These models make excellent general purpose lab rotators with a full 1.6kg (3.5 lb) load capacity.

#### **I. Specifications:**

**Speed:** Fixed: 24rpm (20 rpm for 230 volt models)

**Tilt angle:** +/- 20 degrees from the horizontal

**Motor:** Long life AC gear motor

(no DC motor carbon brushes to replace)

**Platforms:** BioMixer™ 30.0x 30.0 cm (12 x 12")

Mini BioMixer™ 26.7 x 19.1 cm (10.5 x 7.5")

**Mat:** Dimpled, (fingered), black, autoclavable

**Load Capacity:** 1.6kg (3.5 lb) centered and balanced

#### **Dimensions:**

BioMixer™ (wxdxh) 30.0x30.0x21.1 cm (12x12x8.3")

Mini BioMixer™ 26.7x19.1x20.3 cm (10.5x7.5x8.0")

**Weight:** 2kg, 4.4lbs / 1.7kg, 3.8lbs

#### **Electrical:**

115VAC, 60Hz, 0.4 A (B3D1320 and B3D1020)

230VAC, 50Hz, 0.2 A (B3D1320-230 & B3D1020-230)

**Operating environment:** 4°C (cold room) to 65°C

**Warranty:** 2 years

#### **II. Product Set-Up:**

Place the rocker on a clean and stable surface. Make sure that the power switch is in the off position. Plug the rotator into a properly grounded outlet. Check to ensure that nothing is blocking or obstructing the up and down motion of the rocking platform.

#### **III. Product Operation:**

Load the platform from the center out, making sure the items placed on the platform form a balanced load around the center of the platform. This is important as larger, overhung loads may cause the rocker to stall or tip. Turn the unit on by activating the ON/OFF switch so that it is illuminated. The rotator will begin to rotate.

#### **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 attach the rubber mat of plastic (ABS) housing.

#### **V. Accessories, stacking platforms and mats:**

Stacking platforms are available that allow doubling of the work area. There is a 7.5 cm (3") separation between the two platforms, allowing access to the content of both trays. The stacking platform comes with a flat mat. Additional dimpled and flat mats are also available.

#### **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).

