

Service and Contact:

For customer service or technical support, please write to
Benchmark Scientific at info@benchmarkscientific.com or call in
the USA: **908-769-5555** from 8:30 to 5:00 EST

January 2016

**Instruction Manual****3D Mixers**

(Single speed, fixed tilt angle)

Mini BlotBoy™ (B3D1008)

BlotBoy™ (B3D1308)

Mini BioMixer (B3D1020)

BioMixer (B3D1320)



B3D1008



B3D1308



B3D1020



B3D1320

Introduction

Benchmark's *BlotBoy*™ and *BioMixer*™ rockers provide a three dimensional, "nutating" motion that is suitable for a variety of laboratory applications. The *BlotBoy* and *Mini BlotBoy* have a fixed tilt angle and speed optimized for gentle blot washing and gel staining/destaining applications. A flat, non-skid rubber mat is provided to keep sample containers in place. The *BioMixer* and *Mini BioMixer* have a fixed tilt angle and speed optimized for gentle, but thorough foam-free mixing in tubes and other containers. A dimpled mat for holding blood and centrifuge tubes in place is supplied with these mixers. All four models can also be used as general purpose laboratory mixers, with a full load capacity of 4lbs (1.8kg).

I. Specifications

	Mini BlotBoy B3D1008	BlotBoy B3D1308	Mini BioMixer B3D1020	BioMixer B3D1320
Speed	Fixed, 12rpm (230V, 10rpm)		Fixed, 24rpm (230V, 20rpm)	
Tilt Angle	±8° from horizontal		±20° from horizontal	
Motor	Long life AC gear motor (no carbon brushes to replace)			
Platform	27x19cm 10.5x7.5"	30x30cm 12X12"	27x19cm 10.5x7.5"	30x30cm 12X12"
Mat	Flat, non-skid, autoclavable		Dimpled, autoclavable	
Max Load	1.8kg (4lb), centered and balanced			
Dimensions	27x19x20cm 10.5x7.5x8"	30x30x20cm 12x12x8.3"	27x19x20cm 10.5x7.5x8"	30x30x20cm 12x12x8.3"
Weight	2kg (4.4lb)	2kg (4.4lb)	2kg (4.4lb)	2kg (4.4lb)
Electrical	115 or 230V, 50-60 Hz, 50W			
Operating environment	4°C (cold room) to 45°C			
Warranty	2 years, parts and labor			

II. Product Set-Up:

Remove the rocker from the box. Keep all packing materials until the unit is shown to be in good working order. Check the label on the back to ensure a unit of the proper voltage unit has been received. Place the rocker on a clean and stable surface near a properly grounded electrical outlet. Be sure to allow sufficient clearance on all sides so that the platform can move unobstructed. Locate the power switch on the side of the rocker and turn it to the off position. Plug the rocker into the electrical outlet.

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 point. Do not overload the rocker. Larger, overhung or unbalanced loads may cause the rocker to stall or tip. Turn the switch to the on position. The switch will be illuminated and the rocker will begin to move. As the speed and tilt of the rocker are fixed, there are no adjustments to be made. To stop operation of the rocker, turn the power switch to the off position.

IV. Care and Maintenance

The BlotBoy and BioMixer are electrical instruments and care must be taken in their handling. Do not expose the units to temperatures above 45°C. Clean any spills immediately. Keep the unit clean by wiping with a soft, damp cloth. Do not immerse the unit in water. Avoid the use of organic solvents as they may damage the rubber mat or housing of the instrument (ABS). No routine maintenance is required.

V. Accessories, stacking platforms and mats

Stacking platforms are available to double the platform surface. A 7.5cm (3") separation between platforms allows access to the bottom tray. The platforms are supplied with either a flat or dimpled mat (see ordering information below). Additional mats and bungee cords for securing vessels to the platform are available.

B3D-STACK	Stacking platform for Mini BlotBoy, with hardware and flat mat
BR1000-STACK	Stacking platform for BlotBoy, with hardware and flat mat
B3D-STACK-D	Stacking platform for Mini BioMixer, with hardware and flat mat
BR1000-STACK-D	Stacking platform for BioMixer, with hardware and dimpled mat
B3D-FLAT	Flat, non-skid mat, 27x9cm, fits Mini BlotBoy or Mini BioMixer
B3D-DIMPLED	Dimpled mat, 27x9cm, for holding tubes, fits MiniBlotBoy or Mini BioMixer
BR1000-FLAT	Flat, non-skid mat, 30x30cm, fits BlotBoy or BioMixer
BR1000-DIMPLED	Dimpled mat, 30x30cm, for holding tubes, fits BlotBoy or BioMixer
B0718	Bungee cord for securing vessels to platform, 18cm to 46cm working size, pack /4

ATTENTION:

Your 3D Rocker is shipped at 0° tilt angle for improved reliability during shipping.

Prior to operation, please read section IV of the operation manual for detailed instructions on the adjustment of the tilt angle.

ATTENTION:

Your 3D Rocker is shipped at 0° tilt angle for improved reliability during shipping.

Prior to operation, please read section IV of the operation manual for detailed instructions on the adjustment of the tilt angle.