



2013 Product Catalog

MicroCentrifuges



Shakers, Mixers and Rockers



Homogenizers

Autoclaves and Sterilization

Temperature Control Equipment



Benchmark Scientific, Inc. is pleased to present our 2013 research products catalog. Since our inception, we have been providing research laboratories with innovative, cost effective products and solutions designed to improve laboratory efficiency, safety and results.

Our emphasis on next generation technology, quality and value has served our customers and our company well. As a result of recent growth, we have expanded our facilities, our staff and our product lines to serve you better.

We welcome your questions, suggestions and comments.

Microcentrifuges Pg.1

Eight Position Mini Centrifuge
Twelve Position Mini Centrifuge
Twelve Position PCR Strip Centrifuge

Shakers, Mixers & Rockers . . . Pg.4

Vortex Mixers	Three Dimensional Rockers
Tube & Bottle Rollers	Orbital Shakers
Two Dimensional Rockers	

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MicroSterilizers / Cinerators
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Incubators	Shaking Incubators
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Microtube & PCR Plate Coolers
Agarose LE Powder & Agarose Tablets
Media Storage Bottles (hybex™ glassware)

MicroCentrifuges

Pg. 2



myFuge™ Mini **MicroCentrifuge**

Pg. 3



myFuge™ 12 **MicroCentrifuge**

Pg. 3



StripSpin™ 12 **MicroCentrifuge**

myFUGE™ Mini



- + Eight position microtube rotor
- + Storage compartment for PCR rotor
- + Near silent operation
- + Starts and stops in just seconds
- + Conserves valuable bench space

CE

The MyFuge™ Mini centrifuge is a personal centrifuge that virtually fits in the palm of your hand. Ideal for quick spin downs of microtubes and PCR tubes, the MyFuge is extremely easy to use. Simply close the lid and the rotor instantly reaches 6,000 rpm. Open the lid, and the rotor quickly decelerates to a stop for removing samples.

An increased capacity, eight-position microtube rotor is included and comes installed. Also included is a second rotor for 0.2ml PCR tubes and strips which is stored (together with the rotor removal key) in a convenient compartment on the bottom of the centrifuge. When the rotor is not in use, storage in this compartment prevents loss or misplacement of the rotor.



Storage Compartment



Includes Both Rotors

Technical Data:

Speed:	6,000 rpm / 2,000 xg
Capacity:	8 x 1.5/2.0ml tubes 16 x 0.2ml PCR tubes 2 x PCR strips (8 x 0.2ml)
Dimensions: (W x D x H)	4.5 x 5.9 x 4.5 in. 11.4 x 15 x 11.4cm
Weight:	2.2 lbs. / 1 kg
Electrical:	Universal Voltage 100-240V, 50-60 Hz, 250W
Warranty:	1 Year

Ordering Information:

Item No.	Description:
C1008-C*	MyFuge Mini Centrifuge, clear lid
C1008-B*	MyFuge Mini Centrifuge, blue lid
C1008-G*	MyFuge Mini Centrifuge, green lid
C1008-P*	MyFuge Mini Centrifuge, purple lid
C1008-R*	MyFuge Mini Centrifuge, red lid
C1008-A5-8	Replacement adapter pack, 0.5ml 8/pk.
C1008-A2-8	Replacement adapter pack, 0.2ml 8/pk.

*Includes US plug. For EU plug, please add (-E).

All models include microtube rotor, PCR rotor, 0.5ml and 0.2ml adapters.

2000
RCF

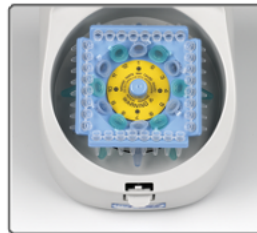
myFuge™ 12 MicroCentrifuge

myFUGE™ 12



- + **COMBI-Rotor™ for tubes and strips**
- + **Twice the capacity of most mini centrifuges**
- + **Near silent operation**
- + **Starts & stops with closing/opening of the lid**

CE



Unique COMBI-Rotor



Compact, low profile design

Unlike traditional mini centrifuges, the new MyFuge™ 12 eliminates the need to change rotors when switching between microtubes and PCR strips. The included, unique COMBI-Rotor™ is all that is required for running 12 microtubes and/or 4 PCR strips.

With a fixed speed that produces 2,000 xg, this centrifuge is perfect for quick spin downs. Simply close the lid and the unit quickly ramps up to 5500 rpm. Open the lid, and the rotor quickly decelerates for removal of samples.

At just 5.5 inches wide and less than 4.5 inches tall, the MyFuge 12 truly is a personal centrifuge with unmatched capacity and flexibility.

Ordering Information:

Item No.	Description:
C1012*	myFuge 12 Mini Centrifuge with Combi-Rotor
C1008-A5-6	Adapter pack, 0.5ml 6/pk.
C1008-A2-6	Adapter pack, 0.2ml 6/pk.

*Includes US plug. For EU plug, please add (-E).

Technical Data:

Speed:	5,500 rpm / 2,000 xg
Capacity:	12 x 1.5/2.0ml tubes 32 x 0.2ml PCR tubes 4 x PCR strips (8 x 0.2ml)
Dimensions: (W x D x H)	5.5 x 7.9 x 4.4 in. 14 x 20 x 11.2 cm
Weight:	2.2 lbs. / 1 kg
Electrical:	Universal Voltage 100-240V, 50-60 Hz, 300W
Warranty:	1 Year



Rotor holds 12
position PCR strips

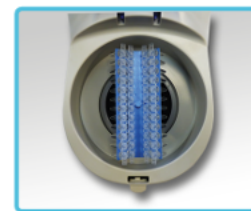
2000
RCF

StripSpin™ 12 MicroCentrifuge

Ordering Information:

Item No.	Description:
C1248*	StripSpin 12 Mini Centrifuge with 4 x 12 strip rotor
C1008-ROT	Optional rotor, 8 x 1.5/2.0ml
C1008-A5-8	Optional adapter pack, 0.5ml 8/pk.

*Includes US plug. For EU plug, please add (-E).



Holds up to 4 x PCR strips
or 48 x 0.2ml tubes

For technical data, please see model C1012 (above).

Shakers, Mixers and Rockers

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BenchMixer™ Vortex Mixers

Pg. 7



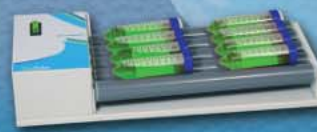
Orbi-Shaker™ MP Microplate Mixer

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BenchMixer™ XL Vortex Mixer

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TubeRoller™ Tube & Bottle Rollers

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TubeRocker™ Fixed Speed Rocker

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BenchBlotter™ Fixed Speed Rocker

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BenchRocker™ 2D Variable Rocker

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Everlast™ 247 Variable Rocker

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BlotBoy™ Low Speed 3D Rockers

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BioMixer™ High Speed 3D Rockers

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BenchRocker™ 3D Rocker

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Orbi-Blotter™ Low Speed Orbital Shaker

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Orbi-Shaker™ JR. Orbital Shaker

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Orbi-Shaker™ Orbital Shaker

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Orbi-Shaker™ XL Orbital Shaker

Pg. 16



Orbi-Shaker™ CO₂ Remote Shaker



MORTEXER™

MORE Power, MORE Flexibility... MORE Vortexer!



CE

- + The only vortexer available with **Multi-Head™**
- + Powerful motor for **INSTANT** vortexing
- + **Q-Drive™** dynamic balancing system
- + Variable speed from **200 to 3200 rpm**



Unique **Multi-Head** allows for standard vortexing **PLUS** holds up to 8 microtubes

Available Accessories:



The Mortexer™ and BenchMixer™ set the new standard in vortex mixing. With advanced Q-Drive™ technology, these mixers provide smooth instant vortexing of even the largest sample sizes, including full 50ml tubes. The unique counter-balance system creates maximum vortexing action, while minimizing noise and excessive vibration. This results in quieter, more efficient and longer lasting operation.

Other features include: "no-walk" suction feet, cold room/incubator compatibility and spill-proof electronic controls.

Technical Data:

Speed Range:	200 to 3200 rpm
Operating Modes:	Touch or continuous
Orbit:	3mm
Operating Temp. Range:	+4° C to +65°C
Dimensions: (W x D x H)	5 x 6.3 x 6.7 in. 13 x 16 x 17 cm
Weight:	8.4 lbs (3.8kg)
Electrical:	115V, 60Hz or 230V, 50Hz*, 180W
Warranty:	2 Years

*230V, 60Hz available upon request

Ordering Information:

Item No.	Description:
BV1005*	Mortexer vortex mixer (with Multi-Head)
BV1000*	BenchMixer vortexer (with standard cup head)
BV1000-FLAT	Optional 3 in. flat head attachment
BV1000-COMBO	Optional combination head for tubes and microplates (38x1.5/2.0ml & 28 x 0.5ml or one microplate)
BV1000-H15	Optional head for 12 x 1.5/2.0ml, horizontal
BV1000-H150	Optional head for 4 x 15ml tubes, horizontal
BV1000-H500	Optional head for 2 x 50ml tubes, horizontal

*115V with US plug. For 230V/50Hz with EU plug, please add (-E). For 230V/60Hz with EU plug, please add (-E2).





Orbi-Shaker™ MP Microplate Shaker



- ✦ Digital speed control up to 1500rpm
- ✦ 3mm orbit for thorough mixing in microplates
- ✦ Includes platform for up to four microplates

Technical Data:

Speed Range:	200 to 1500 rpm
Orbit:	3mm
Max. Capacity:	Up to 4 microplates
Operating Temp. Range:	+4 °C to +65° C
Dimensions: (W x D x H)	11 x 10.7 x 4.5 in. 28 x 27 x 12 cm
Timer:	1 min. to 99 hour / cont.
Weight:	12 lb (5.5kg)
Electrical:	Universal Voltage 100-240V, 50-60Hz, 250W
Warranty:	2 Years

Ordering Information:

Item No.	Description:
BT1500*	Orbi-Shaker™ MP microplate shaker, includes platform for 4 microplates

*Includes US plug. For EU plug, please add (-E).



BenchMixer™ Multi-Tube Vortexer



- ✦ Hands free, high capacity vortexing
- ✦ Up to 2500rpm, a true vortex in every tube
- ✦ Wide assortment of accessories for a variety of tubes, flasks and plates

Ordering Information:

Item No.	Description:
BV1010*	BenchMixer Multi-Tube Vortex Mixer, 115V includes 50 x 12mm rack
BV1010-05	Tube Rack, 96 x 0.5ml (Ø8mm)
BV1010-1520	Tube Rack, 50 x 1.5/2.0ml (Ø10mm)
BV1010-12	Tube Rack, 50 x 12mm (included)
BV1010-13	Tube Rack, 50 x 13mm
BV1010-150	Tube Rack, 50 x 15ml (Ø16.5mm)
BV1010-500	Tube Rack, 15 x 50ml (Ø29mm)
BV1010-25	Tube Rack, 15 x 25mm
BV1010-50H	Tube Rack, 9 x 50ml Horizontal (QuEChERS)
BV1010-V125	Rack, 6 x 100ml Volumetric flask
BV1010-V250	Rack, 6 x 250ml Volumetric flask
BV1010-MP	Rack for up to 3 plates or 96 well microtube racks
BV1010-MP02	Carrier for above, 96 x 0.2ml tubes or strips (3pk.)



50 x 1.5/2.0ml



15 x 50ml

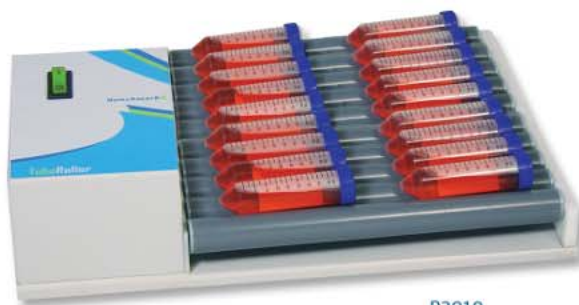


3 x Microplates/96 Well Tube Racks

Technical Data:

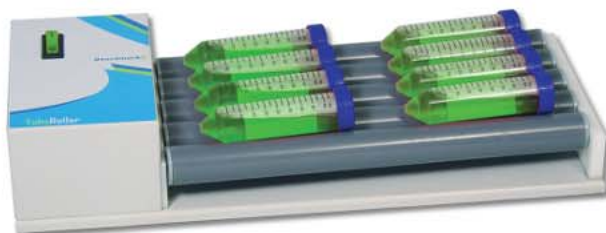
Speed Range:	500 to 2500rpm
Max. Capacity:	6 x 250ml
Orbit:	3.6mm
Timer:	1 min. to 99hr 59min.
Platform Dimensions:	12 x 7 in. / 30 x 17.8 cm
Exterior Dimensions: (W x D x H)	15 x 9.2 16.5 in. 38.5 x 23.5 x 42 cm
Operating Temp. Range:	+4° C to +65° C
Weight:	29 lb s (13kg)
Electrical:	100 to 240V, 50-60Hz, 60W
Warranty:	2 Years

TubeRoller Tilting Tube & Bottle Roller



R3010

- + Gentle rolling motion
- + Smooth 5° tilting motion
- + Accepts tubes and bottles (diameter from 8mm to 200mm)



R3005

Benchmark TubeRollers are designed for the gentle, thorough mixing of a variety of containers, including Vacutainers™, bottles, test tubes, centrifuge tubes and roller bottles. Both models (5 roller and 10 roller) operate at a constant 38rpm, chosen as the optimum speed for the broadest range of mixing requirements.

As the roller mechanism rotates through each complete revolution, the right side of each roller is gently elevated about 0.5 in (13mm) and returns to the horizontal starting position. This additional, gentle up/down motion provides a "wave" effect and guarantees that the entire sample is subjected to complete, thorough mixing, end to end. This built in tilt feature provides a level of homogeneous mixing uniformity that can not be matched by any stationary roller apparatus.



R3005 shown with Vacutainers™



R3005 shown with 15ml conical tubes

From blood collection tubes to roller bottles, Benchmark TubeRollers are the ideal choice for research, clinical laboratories and doctors' offices.

Technical Data:

Speed: **Fixed, 38 rpm (±10%)**
 Motion: **Simultaneous roll & tilt (±5°)**
 Operating Temp: **4°C to 40°C (external temp.)**
 Individual Roller Dims: **3 x 32cm (1.2 x 12.5 in.)**
 Vessels Accepted: **8mm to 20mm diameter**
 Roller Spacing: **5mm, on 35mm centers**
 Electrical: **115 or 230V, 50-60Hz, 50W**
 Warranty: **2 Years**

	R3005	R3010
Number of Rollers:	5	10
Dimensions: (W x D x H):	18 x 7 x 3.5 in. 45 x 18 x 9 cm	18 x 14 x 3.5 in. 45 x 36 x 9 cm
Weight:	11lbs (5kg)	17.6lbs (8kg)

Typical Sample Load Capacity:

Vessel	R3005	R3010
12 x 75mm tubes	12	26
16 x 100mm tubes	8	18
16 x 125mm tubes	8	18
15ml screw cap tubes	8	18
50ml screw cap tubes	8	18
850cm ² roller bottles	1	2

Ordering Information:

Item No.	Description:
R3005*	TubeRoller with 5 rollers
R3010*	TubeRoller with 10 rollers

*115V with US plug. For 230v (EU plug), please add (-E).



TubeRocker™ Fixed Speed Rocker (2D)

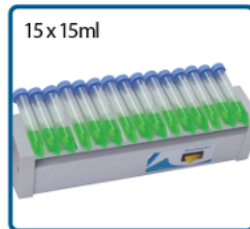


CE

- + Ideal for tube sizes 1.5ml to 50ml
- + No tools or mounting hardware required



8x50ml



15x15ml



15 x Blood Collection Tubes
(5ml, 7ml, 10ml or 15ml)



30x 1.5/2.0ml

Technical Data:

Speed Range:	Fixed, 24 rpm (230V: 20 rpm)
Tilt Angle:	±30°
Platform Size:	12 x 4.5 in. / 30 x 11.4 cm
Load Capacity:	5 lbs (2.3kg)
Operating Temp. Range:	+4° C to +65° C
Dimensions:	13.3 x 5.5 x 4 in. / 33.6 x 13.5 x 10 cm
Weight:	4 lbs (2.2kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	2 Years

Ordering Information:

Item No.	Description:
M2100*	TubeRocker with grooved mat

*115V with US plug. For 230v (EU plug), please add (-E).



BenchBlotter™ Fixed Speed Rocker (2D)



CE

BR1000 with BR1000-STACK

- + Gentle mixing for blot washing and gel staining
- + Optional dual platform doubles work surface

Technical Data:

Speed Range:	Fixed, 12 rpm (230V: 10 rpm)
Tilt Angle:	±8°
Platform Size:	12 x 12 in. / 30 x 30 cm
Load Capacity:	5 lbs (2.3kg)
Operating Temp. Range:	+4° C to +65° C
Dimensions:	13.5 x 12 x 4.7 in. 34 x 30 x 12 cm
Stacking Clearance:	3 in. / 7.6 cm
Weight:	6.5 lbs (3kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	2 Years

Ordering Information:

Item No.	Description:
BR1000*	BenchBlotter platform rocker with flat mat
BR1000-STACK	Optional stacking platform with non-slip mat
BR1000-DIMPLED	Optional dimpled mat
B0718	Bungee cord, used for securing vessels, pack of 4

*115V with US plug. For 230v (EU plug), please add (-E).

BenchRocker™ 2D Variable Speed Rocker (2D)



CE



Optional Stacking Platform (clearance: 3")

- + Adjustable tilt & speed for a wide range of applications
- + Large 14x12" work surface
- + Safe for incubator or cold room use

The BenchRocker 2D is designed to provide the precise speeds and tilt angles required for a broad range of molecular and biological mixing applications. The user can adjust both parameters to match the vessel size and the volume of liquid being mixed, yielding optimum results.

Technical Data:

Speed Range:	Variable, 2 to 30 rpm
Tilt Angle:	Variable, 0° to ± 30°
Platform Size:	14 x 12 in. / 35 x 30 cm
Load Capacity:	8 lbs (3.6kg)
Operating Temp. Range:	+4° C to +65° C
Dimensions: (W x D x H)	14 x 12 x 8 in. 35 x 30 x 20 cm
Stacking Clearance:	3 in. / 7.6 cm
Weight:	7.5 lb s (3.4kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	2 Years

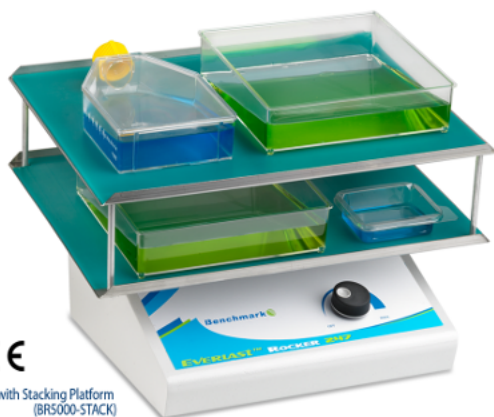
Ordering Information:

Item No.	Description:
BR2000*	BenchRocker™ 2D rocker with flat mat
BR2000-STACK	Optional stacking platform (3") with flat mat
BR2000-DIMPLED	Optional dimpled mat
B0718	Bungee cord, used for securing vessels, pack of 4
BR2000-SP	STACK-PLUS Extender set, adds 1.25" clearance to stacking platform

*115V with US plug. For 230v (EU plug), please add (-E).



Everlast™ 247 Heavy Duty - Variable Speed Rocker (2D)



CE

Pictured with Stacking Platform (BR5000-STACK)

- + Everlast™ 5 year warranty
- + Extra-Large, stainless steel 16x12" surface
- + 16lb load capacity
- + Safe for incubator or cold room use

With an unprecedented 5 year limited warranty, Benchmark's Everlast 247 Rocker is built to last. Twenty four hours a day, seven days a week . . . No problem! The powerful motor and heavy duty drive system remain reliable and consistent, even under constant usage in a cold room (min. 0°C) or incubator. (max. 65°C)

Technical Data:

Speed Range:	Variable, 3 to 80 rpm
Tilt Angle:	Variable, 0° to ± 20°
Platform Size:	16 x 12 in. / 40.5 x 30 cm
Load Capacity:	16 lbs (7.5kg)
Operating Temp. Range:	+0° C to +65° C
Dimensions: (W x D x H)	16 x 13 x 6 in. 40.5 x 33 x 15.25 cm
Stacking Clearance:	3 in. / 7.6cm
Weight:	20 lb s (9kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	5 Years

Ordering Information:

Item No.	Description:
BR5000*	Everlast™ Rocker with flat mat
BR5000-STACK	Optional stacking platform with flat mat with 3.5" clearance
B0718	Bungee cord, used for securing vessels, pack of 4

*115V with US plug. For 230v (EU plug), please add (-E).



BlotBoy™ Low Speed Gyrotory Rockers (3D)



BlotBoy
B3D1308

- + Optimized speed & tilt for gel blotting, washing and staining
- + Tri-directional motion for thorough, gentle mixing
- + Stacking platforms available
- + Cold room and incubator safe



Mini BlotBoy
B3D1008



B3D1308 with BR1000-STACK

Modeled after our popular BioMixer™ series of “nutating” shakers, these platform rockers provide the perfect 3-dimensional motion for all blot related applications. Their tilt angle and speed have been optimally set for gentle, but thorough mixing in gel trays, boxes and other flat vessels.

Mini BlotBoy™ and BlotBoy™ are supplied with autoclavable flat mats and are ideal for blot washes and gel staining/destaining. Both models have been designed to conserve bench space. The Mini BlotBoy is supplied with a 10.5 x 7.5 inch platform while the larger BlotBoy's 12 x 12 inch platform expands the useable work surface by 80%.

The Mini BlotBoy and BlotBoy can accept stackable platforms and handle loads up to 2kg. Both have maintenance free brushless motors and are safe for use in cold rooms and incubators.

Ordering Information:

Item No.	Description:
B3D1008*	Mini BlotBoy with flat mat (10.5x7.5")*
B3D-STACK	Stacking platform with flat mat (10.5x7.5")
B3D-DIMPLED	Dimpled mat (10.5x7.5")
B0718	Bungee cord, used for securing vessels, pack of 4
B3D1308*	BlotBoy with flat mat (12x12")*
BR1000-STACK	Stacking platform with flat mat (12x12")
BR1000-DIMPLED	Dimpled mat (12x12")
B0718	Bungee cord, used for securing vessels, pack of 4

*115V with US plug. For 230v (EU plug), please add (-E).

Technical Data:

Speed Range:	Fixed, 12 rpm Fixed, 10 rpm (230V, 50Hz) Fixed, ± 8°
Tilt Angle:	Fixed, ± 8°
Platform Size:	
Mini BlotBoy	10.5 x 7.5 in. / 27 x 19 cm
BlotBoy	12 x 12 in. / 30 x 30 cm
Load Capacity:	4 lbs (2.2kg)
Operating Temp. Range:	+4° C to +65° C
Dimensions: (W x D x H)	10.5 x 7.5 x 8 in. / 27 x 19 x 20 cm 12 x 12 x 8 in. / 30 x 30 x 20 cm
Stacking Clearance:	3 in. / 7.6cm
Weight:	4.4 lbs (2kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	2 Years



Mini BioMixer
B3D1020

- + Includes dimpled mat; perfect for mixing blood & centrifuge tubes
- + Tri-directional motion for thorough, uniform mixing
- + Stacking platforms available
- + Cold room and incubator safe

CE



BioMixer
B3D1320



B3D1320 with BR1000-STACK

These multi-functional shakers provide a 3-dimensional “nutating” motion for thorough, foam-free mixing in blood and centrifuge tubes, as well as in a variety of flat vessels.

Both models come standard with autoclavable dimpled mats while optional flat mats are also available for mixing other vessel types. Stacking platforms can be purchased as accessories, effectively doubling the usable surface area of each model.

Even the smallest single platform configuration has 24% more platform work surface than traditional nutating mixers.

These mixers feature maintenance free, brushless motors capable of loads up to 2kg and are safe for use in cold rooms and incubators.

Technical Data:

Speed Range:	Fixed, 24 rpm Fixed, 20 rpm (230V, 50Hz)
Tilt Angle:	Fixed, ± 20°
Platform Size:	
Mini BioMixer	10.5 x 7.5 in. / 27 x 19 cm
BioMixer	12 x 12 in. / 30 x 30 cm
Load Capacity:	4 lbs (2.2kg)
Operating Temp. Range:	+4 °C to +65°C
Dimensions (W x D x H):	
Mini BioMixer	10.5 x 7.5 x 8 in. / 27 x 19 x 20 cm
BioMixer	12 x 12 x 8 in. / 30 x 30 x 20 cm
Stacking Clearance:	3 in. / 7.6 cm
Weight:	4.4 lbs (2kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	2 Years

Ordering Information:

Item No.	Description:
B3D1020*	Mini BioMixer with dimpled mat (10.5x7.5")
B3D-STACK-D	Stacking platform with dimpled mat (10.5x7.5")
B3D-FLAT	Flat mat (10.5x7.5")
B0718	Bungee cord, used for securing vessels, pack of 4
B3D1320*	BioMixer with dimpled mat (12x12")
BR1000-STACK-D	Stacking platform with dimpled mat (12x12")
BR1000-FLAT	Flat mat (12x12")
B0718	Bungee cord, used for securing vessels, pack of 4

*115V with US plug. For 230v (EU plug), please add (-E).



BenchRocker™ 3D Variable Speed Gyrotory Rocker (3D)



WITH
**INSTA
TILT™**

- + Adjustable speed & tilt for a wide range of applications
- + Large 12x12" work surface
- + Insta-TILT™ technology for instant adjustment of tilt angle
- + Cold room and incubator safe



Optional Stacking Platform (clearance: 3")



The BenchRocker 3D is designed to provide the precise speeds and tilt angles required for a broad range of molecular and biological mixing applications. The user can adjust both parameters to match the vessel size and the volume of liquid being mixed, yielding optimum results. Proprietary InstaTilt™ technology means no tools, no disassembly. **Simply grip the platform with two hands and move to the desired position.**

This model includes both flat and dimpled (autoclavable) mats for mixing a wide variety of tubes and other vessels. Stacking platforms can be purchased as accessories, effectively doubling the usable surface area of each model.

BenchRocker 3D features a maintenance free, brushless motor, capable of loads up to 4.4 lbs and is safe for use in cold rooms and incubators.

Ordering Information:

Item No.	Description:
B3D2300*	BenchRocker 3D with flat and dimpled mats (12x12")
BR1000-STACK	Stacking platform with flat mat (12x12")
BR1000-STACK-D	Stacking platform with dimpled mat (12x12")
B0718	Bungee cord, used for securing vessels, pack of 4
BR2000-SP	STACK-PLUS Extender set, adds 1.25" clearance to stacking platform

*115V with US plug. For 230v (EU plug), please add (-E).

Technical Data:

Speed Range:	Variable, 2 to 30 rpm
Tilt Angle:	Variable, 0 to ± 30°
Platform Size:	12 x 12 in. / 30 x 30 cm
Load Capacity:	5 lbs (2.3kg)
Operating Temp. Range:	+4°C to +65°C
Dimensions: (W x D x H)	12 x 12 x 8 in. 30 x 30 x 20 cm
Stacking Clearance:	3 in. / 7.6 cm
Weight:	7.5 lbs (3.4kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	2 Years

ORBi-BLOTTER™



- + Gentle orbital motion for gel applications
- + Large 14 x 12 in. work surface
- + Incubator and cold room safe
- + Variable speed control, 3 to 70 rpm

The Orbi-Blotter™ features a gentle orbital motion with speed control down to as little as 3 rpm, making it the ideal orbital choice for low speed applications, such as blotting, washing, staining/destaining, etc. A large 14x12 in. work surface is included along with a non-slip rubber mat for holding trays, dishes, plates and other flat vessels.

An optional stacking platform can be purchased as an accessory, effectively doubling the usable work surface. The maintenance free, brushless motor is capable of loads up to 2kg and is safe for use in cold rooms and incubators.

Technical Data:

Speed Range:	Variable, 3 to 70 rpm
Motion / Orbit:	Orbital / 19mm
Load Capacity:	3 x 2L or 5 lbs (2kg)
Platform Size:	14 x 12 in. / 35 x 30 cm
Operating Temp. Range:	+4°C to +65°C
Dimensions: (W x D x H)	14 x 12 x 8 in. 35.5 x 30.5 x 20 cm
Stacking Clearance:	3 in. / 7.6 cm
Weight:	7.5 lbs (3.4kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	2 Years

Ordering Information:

Item No.	Description:
BT30*	OrbiBlotter™ low speed orbital shaker
BR2000-STACK	Stacking platform with flat mat (14x12")
BR2000-SP	STACK-PLUS Extender set, adds 1.25" clearance to stacking platform

*115V with US plug. For 230v (EU plug), please add (-E).

See Pg. 32-33

Shaking Incubators

INCU-SHAKER™ Series



- + Exceptional temperature uniformity
- + Two models,
Incu-Shaker Mini: Up to 5 x 500ml
Incu-Shaker 10L: Up to 5 x 2L
- + Exchange flask clamps in one second with MAGIC CLAMP™ magnetic system



Orbi-Shaker™ JR. Orbital Shaker



CE

- + Horizontally circular 19mm orbit for aeration and mixing
- + Extremely compact, perfect for low to medium capacity applications
- + Instantly exchange flask clamps with MAGIC Clamp™ accessories



BT300-RB

Technical Data:

Speed Range:	Variable, 50 to 300 rpm
Speed Increment:	10 rpm
Motion / Orbit:	Orbital / 19mm
Load Capacity:	4 x 1L or 9 lbs (4kg)
Platform Size:	
Standard (included):	9.5 x 8 in. / 24 x 20 cm
MAGic Clamp (universal):	11.5 x 9.5 in. / 29 x 24 cm
Operating Temp. Range:	+4°C to +65°C
Dimensions:	11 x 10.7 x 5 in.
(W x D x H):	28 x 27 x 13 cm
Weight:	12 lbs (5.5kg)
Electrical:	Universal Voltage
	100 to 230V, 50-60Hz, 250W
Warranty:	2 Years

Ordering Information:

Item No.	Description:
BT300*	Orbi-Shaker™ JR. with flat mat platform (9.5 x 8 in.)
H1000-MR**	MAGic Clamp™ universal platform for flasks and tubes
BT300-RB	Adjustable spring bar platform for unique vessel types

*Includes US plug. For EU plug, please add (-E).

**Flask clamps and tube racks sold separately, see pg. 17 for a complete listing.



Orbi-Shaker™ Orbital Shaker



CE

- + High capacity, 9 x 500ml, 5 x 1L or 2 x 2L
- + Circular 19mm orbit for aeration and mixing
- + Instantly exchange flask clamps with MAGIC Clamp™ accessories

Ordering Information:

Item No.	Description:
BT3000*	Orbi-Shaker™ with flat mat platform (13 x 12 in.)
BT3000-MR**	MAGic Clamp™ universal platform for flasks and tubes
H1000-P-SP	Universal spring platform for unique vessel types
H1000-P-MP	Dedicated platform for 4 x microplates
H1000-P-125	Dedicated platform, 12 x 125ml flasks
H1000-P-250	Dedicated platform, 8 x 250ml flasks
H1000-P-500	Dedicated platform, 5 x 500ml flasks

Technical Data:

Speed Range:	Variable, 30 to 300 rpm
Speed Increment:	1 rpm
Motion / Orbit:	Orbital / 19mm
Load Capacity:	5x1L or 14 lbs (6kg)
Timer:	1 min. to 48 hr / continuous
Platform Size: (W x D x H):	
Standard (included):	13 x 12 in. / 33 x 30 cm
MAGic Clamp (universal):	14 x 12 in. / 35 x 30 cm
Operating Temp. Range:	+4°C to +65°C
Dimensions:	11 x 13 x 3 in. / 28 x 33 x 7.5 cm
Weight:	25 lbs (11.5kg)
Electrical:	115 or 230V, 50-60Hz, 600W
Warranty:	2 Years

*115V with US plug. For 230v (EU plug), please add (-E).

**Flask clamps and tube racks sold separately, see pg. 17 for a complete listing.

Orbi-Shaker™ XL High Capacity Orbital Shaker



CE

- + High capacity, benchtop model
- + Circular 19mm orbit for aeration and mixing
- + Instantly exchange flask clamps with MAGIC Clamp™ accessories

Ordering Information:

Item No.	Description:
BT1010*	Orbi-Shaker™ with flat mat platform (13 x 12 in.)
H1010-MR**	MAGIC Clamp™ platform for flasks & tubes (18 x 18 in.)
H1010-P-SP	Universal spring platform for unique vessel types
H1010-P-MP	Dedicated platform for 4 x microplates

*115V with US plug. For 230V (EU plug), please add (-E).
 **Flask clamps and tube racks sold separately, see page 17 for a complete listing.

Technical Data:

Speed Range:	Variable, 30 to 300 rpm
Speed Increment:	1 rpm
Motion / Orbit:	Orbital / 19mm
Load Capacity:	5 x 2L or 9 x 1L / 65 lbs (30kg)
Platform Size:	18 x 18 in. / 45 x 45 cm
Operating Temp. Range:	4°C to +65°C (ambient temp.)
Dimensions (W x D x H):	18.5 x 21.25 x 5 in. / 47 x 54 x 12.5 cm
Weight:	64lbs (30kg)
Electrical:	120 or 230V, 50-60Hz
Warranty:	2 Years

Orbi-Shaker™ CO₂ All Environment Orbital Shaker



CE

- + Designed for use in CO₂ incubators and other extreme environments
- + Remote controlled, adjust settings from outside the chamber
- + Instantly exchange flask clamps with MAGIC Clamp™ accessories

Ordering Information:

Item No.	Description:
BT4000*	Orbi-Shaker™ with flat mat platform (13 x 12 in.)
BT3000-MR**	MAGIC Clamp™ large platform for flasks & tubes
H1000-P-SP	Universal spring platform for unique vessel types
H1000-P-MP	Dedicated platform for 4 x microplates

*115V with US plug. For 230V (EU plug), please add (-E).
 **Flask clamps and tube racks sold separately, see page 17 for a complete listing.

Technical Data:

Speed Range:	Variable, 30 to 300 rpm
Speed Increment:	1 rpm
Motion / Orbit:	Orbital / 19mm
Load Capacity:	5 x 1L or 14 lbs (6kg)
Timer:	1 min. to 48 hr / Continuous
Platform Size:	
Standard (included):	13 x 12 in. / 33 x 30 cm
MAGIC Clamp (Small):	11.5 x 9.5 in. / 29 x 24 cm
MAGIC Clamp (Large):	14 x 12 in. / 35 x 30 cm
Operating Temp. Range:	0°C to +65°C
Dimensions (W x D x H):	
Shaker:	12 x 13.4 x 3.5 in. / 30 x 34 x 9 cm
Remote Control:	7.2 x 6.7 x 3.5 / 18 x 17 x 9 cm
Cord Length:	60.5 in. / 154 cm
Weight:	25 lbs (11.5kg)
Electrical:	120 or 230V, 50-60Hz, 600W
Warranty:	2 Years

Flask Clamps & Max. Capacity with MAGic Clamp Platforms

Item No.	Description:	Platform H1000-MR	Platform BT3000-MR	Platform H1010-MR
		Available For Orbi-Shaker JR.	Available For Models Orbi-Shaker & Orbi-Shaker CO2	Available For Orbi-Shaker XL
H1000-MR-50	Flask clamp, 50ml Erlenmeyer flask	20	30	49
H1000-MR-125	Flask clamp, 125ml Erlenmeyer flask	12	20	35
H1000-MR-250	Flask clamp, 250ml Erlenmeyer flask	8	14	25
H1000-MR-500	Flask clamp, 500ml Erlenmeyer flask	5	9	16
H1000-MR-1000	Flask clamp, 1L Erlenmeyer flask	4	5	9
H1000-MR-2000	Flask clamp, 2L Erlenmeyer flask	1	2	5

Test Tube / Micro Plate Racks & Max. Capacity for MAGic Clamp Platforms

Item No.	Description:	Platform H1000-MR	Platform BT3000-MR	Platform H1010-MR
		Available For Orbi-Shaker JR.	Available For Models Orbi-Shaker & Orbi-Shaker CO2	Available For Orbi-Shaker XL
H1000-MR-T15	Tube Rack, 15ml conical tubes, 32 x 15ml	2	3	8
H1000-MR-T50	Tube Rack, 50ml conical tubes, 15 x 50ml	2	3	8
H1000-MR-1550	Combi-Tube Rack, 30 x 15ml & 20 x 50ml tubes	2	2	4
H1000-MR-T600	Tube/Bottle Rack, 4 x 500/600ml conical bottles	1	2	4
H1000-MR-T15H	Tube rack, 12 x 1.5/2.0ml tubes, horizontal	2	4	6
H1000-MR-T150H	Tube rack, 4 x 15ml tubes, horizontal	4	6	8
H1000-MR-T500H	Tube rack, 2 x 50ml tubes, horizontal	4	6	8
H1000-MR-MP	Plate rack, holds one microplate	4	6	8

Homogenizers

Pg. 18



D1000 Hand Held Homogenizer

Pg. 19



BeadBug™ Microtube Homogenizer

Pg. 20



BeadBlaster™ 24 Microtube Homogenizer

D1000 Homogenizer



CE



Ergonomic, "Slim-line" handle design

- + Homogenize most samples in under 30 seconds
- + For volumes from 100µl to 250 ml
- + Supplied with both 5mm and 7mm generator probes

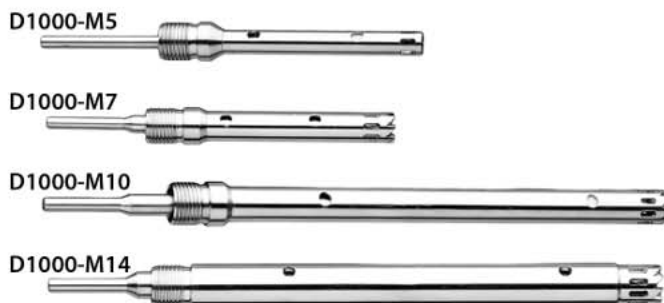
Benchmark's new hand-held homogenizer, the D1000, is designed to rapidly homogenize, emulsify, suspend and disrupt biological samples. Ideal for use with microtubes, the homogenizer works well with samples from 0.1 ml to 250ml (depending upon the generator probe used).

The D1000 is a rotor stator homogenizer, and works by drawing the sample, in liquid, into the generator probe with the variable speed rotor, and then forcing it out through the slots in the stator. This achieves mechanical shearing of the sample. As the sample is repeatedly drawn up and forced through the stator, additional shearing takes place. Most samples are completely homogenized in 30 seconds or less.

A powerful, 130W motor drives the rotor at speeds from 8,500 to 30,000 rpm. Speed is adjustable in six steps to meet sample processing needs. A separate on/off switch allows the homogenizer to be left at the appropriate setting.

Generator probes are available in four sizes - 5mm and 7mm diameter probes, 50mm in length for use with samples in microtubes, 10mm x 115mm for use with 15 and 50ml tubes, and 14mm x 130 mm, for 50ml tubes and vessels up to 250ml. The unit is supplied with one each of the 5mm and 7mm generator probes. All the generator probes are made of stainless steel and can be sterilized by autoclaving.

Available Generator Heads



Technical Data:

Speed Range:	8,500 to 30,000 rpm
Capacity:	0.1 to 250 ml
Noise Level:	<70 db
Operating Temp. Range:	+4 °C to +65°C (ambient temp.)
Dimensions: (W x D x H):	1.8 x 2.3 x 9 in. (without probe) 4.5 x 5.8 x 22.5 cm
Weight:	1.35 lbs (0.6kg)
Electrical:	115V or 230V, 50-60 Hz, 130W
Warranty:	2 Years

Ordering Information:

Item No.	Description:
D1000*	D1000 Hand-held Homogenizer, 115V Includes one 5mm (flat bottom) generator probe and one (7mm saw tooth) generator probe
Optional generator probes:	
D1000-M10	10mm x 115mm saw tooth, for 15ml & 50ml tubes
D1000-M14	14mm x 130mm saw tooth, for 50ml -250ml vessels
D1000-M5	5 x 50mm for microtubes, 5 pk.
D1000-M7	7 x 50mm for microtubes, 5pk.
D1000-ST	Stand for D1000

*115V with US plug. For 230v (EU plug), please add (-E).

BeadBug™ Microtube Homogenizer

BEADBUG MICROTUBE HOMOGENIZER



Less than 7" wide

CE

- + Extremely powerful mixing action for lysis, grinding or homogenization
- + Eliminates the cross contamination associated with hand-held homogenizers
- + Faster & more effective than tissue grinders
- + Process up to 3 tubes simultaneously

The BeadBug™ is a high energy benchtop homogenizer that sets the performance standard for personal sized cell disruption and lysis instruments. Simultaneous homogenization of up to 3 samples takes place (often within 45 seconds) inside the disposable 2ml screw cap microtubes. The optimized mixing motion causes rapid cell disruption through constant high velocity impact from the hardened micro-beads chosen specifically for your sample type.

Developed for samples too tough to be homogenized in a common lab vortexer, the BeadBug provides a convenient and economical alternative to the traditional, larger and more expensive homogenizers on the market today. With up to three tube capacity and a footprint of just 7 x 8", the BeadBug is the ideal homogenizing instrument for low to medium throughput laboratories.

For Best Results, use with Benchmark prefilled tube kits:



Standard Glass beads (Acid Washed)



Triple-Pure™ (Molecular Biology Grade) Zirconium Beads

Ordering Information:

Item No.	Description:
D1030*	BeadBug™ Microtube Homogenizer*
Pre-filled Tube Kits: Include 2.0ml Non-Skirted Screw Cap tubes with caps, sealing rings and beads as specified below.	
D1031-01	Standard glass beads, ØD 0.1mm, 50pk.
D1031-05	Standard glass beads, ØD 0.5mm, 50pk.
D1031-10	Standard glass beads, ØD 1.0mm, 50pk.
D1032-01	Triple-Pure, high impact zirconium beads, ØD 0.1mm, 50pk.
D1032-05	Triple-Pure, high impact zirconium beads, ØD 0.5mm, 50pk.
D1032-10	Triple-Pure, high impact zirconium beads, ØD 1.0mm, 50pk.
D1032-15	Triple-Pure, high impact zirconium beads, ØD 1.5mm, 50pk.
D1032-30	Triple-Pure, high impact zirconium beads, ØD 3.0mm, 50pk.
D1032-SK	Starter Kit, 10 ea. of Ø0.1, 0.5, 1.0, 1.5 & 3.0 Triple-Pure Zirconium
D1033-28	Stainless steel beads, ØD 2.8mm, 50pk.
D1031-T20	Empty tubes (2.0ml) pack of 1000

*115V with US plug. For 230v (EU plug), please add (-E).

Technical Data:

Speed Range:	2800 to 4000rpm
Max. Capacity:	3 x 2.0ml (non-skirted)
Timer:	3 sec. to 3 min.
Operating Temp. Range:	+4° C to +65° C (ambient temp.)
Dimensions: (W x D x H)	6.9 x 8.3 x 5.3 in. 17 x 21 x 13.5 cm
Weight:	5 lbs (2.2kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	2 Years

BeadBlaster™ 24 Microtube Homogenizer



CE



Stainless steel, 24 position tube carrier

- + **Fast, efficient homogenization, usually in 35 seconds or less**
- + **For all sample types, from soft tissue to bone**
- + **High throughput, up to 24 samples**
- + **Sealed 2.0ml tubes, no cross contamination**

The BeadBlaster™ 24 completely lyses, grinds and homogenizes a broad variety of biological samples. Even the most difficult and resistant samples are fully homogenized, often in 35 seconds or less. The stainless steel tube carrier subjects up to 24 samples to an optimized, high speed, 3D motion, producing high energy impacts between the samples and micro-beads to release cellular contents. To protect heat sensitive samples, the unit can be digitally programmed to operate in shortened consecutive cycles with a rest period in between.

Benchmark offers an assortment of pre-filled tube kits for a variety of sample types. The popular Triple-Pure™ kits include acid washed, heat treated, zirconium beads. The beads are tested to be free of nucleases, making them ideal for molecular biology applications. A convenient starter kit (D1032-SK) is available to accommodate a broad range of samples and optimize applications.



Technical Data:

Speed:	4.00 to 7.00 m/s
Speed Increments:	0.05 m/s
Capacity:	24 x 2.0ml tubes
Cycle Time:	1 to 90 sec. (1 sec. increments)
Pause Between Cycles:	0 to 2 min. (1 sec. increments)
Max Cycles per program:	10
Program Memory:	50
Accel/Decel:	<2 sec. / <2 sec.
Noise Level:	<68 db
Operating Temp. Range:	+4 °C to +65°C (ambient temp.)
Dimensions:	11 x 14.2 x 15.2 in.
(W x D x H):	28 x 36 x 23.5cm
Weight:	55 lbs (25kg)
Electrical:	115 or 230V, 50-60Hz,
Warranty:	2 Years

Ordering Information:

Item No.	Description:
D2400*	BeadBlaster™ 24 Microtube Homogenizer*
Pre-filled Tube Kits: Include 2.0ml Non-Skirted Screw Cap tubes with caps, sealing rings and beads as specified below.	
D1031-01	Standard glass beads, ØD 0.1mm, 50pk.
D1031-05	Standard glass beads, ØD 0.5mm, 50pk.
D1031-10	Standard glass beads, ØD 1.0mm, 50pk.
D1032-01	Triple-Pure, high impact zirconium beads, ØD 0.1mm, 50pk.
D1032-05	Triple-Pure, high impact zirconium beads, ØD 0.5mm, 50pk.
D1032-10	Triple-Pure, high impact zirconium beads, ØD 1.0mm, 50pk.
D1032-15	Triple-Pure, high impact zirconium beads, ØD 1.5mm, 50pk.
D1032-30	Triple-Pure, high impact zirconium beads, ØD 3.0mm, 50pk.
D1032-SK	Starter Kit, 10 ea. of Ø 0.1, 0.5, 1.0, 1.5 & 3.0 Triple-Pure Zirconium
D1033-28	Stainless steel beads, ØD 2.8mm, 50pk.
D1031-T20	Empty tubes (2.0ml) pack of 1000

*115V with US plug. For 230v (EU plug), please add (-E).

Autoclaves and Sterilization

Pg. 22



BactiZapper™
MicroSterilizer

Pg. 23



BioClave™ Mini
Bench Top Autoclave

Pg. 23



BioClave™ 16
Bench Top Autoclave

BactiZapper™ MicroSterilizer / Cinerator



- + Complete sterilization in 5-7 seconds
- + Safe, convenient and no spatter
- + Ideal for platinum loops, needles and tube mouths

The BactiZapper™ has an asbestos-free core element that uses infrared heating to produce 815°C (1500°F). It completely sterilizes in 5-7 seconds. The BactiZapper uses well-proven technology to provide instant sterilization of platinum inoculating loops, needles, glass tube/pipette mouths and various metal & borosilicate glass instruments. It also has a lower temperature setting (500°C) that can be used as a “standby” and extends usable life.

The ceramic heating element is safely enclosed in a perforated stainless steel guard chamber, protecting users from accidental contact with the extreme temperatures of the core area. It is extremely compact, convenient and can be used in anaerobic and aerobic chambers.

Technical Data:

High Temperature Setting: **815°C / 1500°F**
Low Temperature Setting: **500°C / 950°F**
Sterilization Time: **5 - 7 seconds**
Chamber Diameter: **0.55 in. / 14mm**
Chamber Length: **6 in. / 153mm**
External Dimensions: **4 x 6 x 6.5 in.**
(W x D x H) **10.2 x 15.2 x 16.5 cm**
Weight: **2.9 lbs. (1.3 kg)**
Electrical Data: **115 or 230V, 50-60Hz**
Warranty: **170 Watts**
1 Year*

*Excludes heating element

Ordering Information:

Item No.	Description:
B1000*	Benchmark BactiZapper sterilizer
B1000-01	Loop holder attachment
B1000-03	Slide dryer attachment, 3 slides
B1000-RA	Replacement heating element, 115V
B1000-RAE	Replacement heating element, 230V

*115V with US plug. For 230v (EU plug), please add (-E).

BioClave™ Series Research Autoclaves

BioCLAVE™



B4000-16



B4000-M

- + Fully automatic; just press start
- + Rapid, complete sterilization
- + Extremely compact
- + Built in water tank, does not require connection to an external water supply

Despite the space-saving exterior dimensions of the BioClaves, the stainless steel sterilization chambers are surprisingly large, accommodating a variety of liquids, media, instruments, glassware, plasticware and other common laboratory items. Both of these benchtop models include a mechanical and electrical safety interlock that prevents the door from being opened until the pressure has reached zero PSI.

With large digital displays and fully automatic operation, all segments of the sterilization cycle (fill, sterilize, exhaust and dry) commence and run to completion by simply pressing the start button. An optional thermal mini-printer is also available for providing a record of sterilization parameters (compatible with BioClave 16 only).

BioCLAVE Mini™ AUTOCLAVE

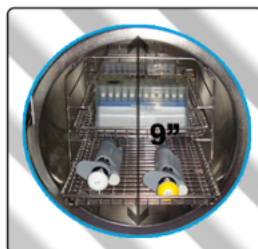
The 8 liter BioClave Mini is preprogrammed to meet basic sterilization needs. Although the temperature can be selected at either 121°C or 134°C, the sterilization time is fixed. The economical BioClave Mini is the ideal choice wherever benchtop sterilization is required and space is limited.

BioCLAVE 16™ AUTOCLAVE

The 16 liter BioClave offers three cycle options (standard programs), which are preset for the sterilization of liquids, wrapped instruments or unwrapped instruments/plasticware. A fourth option "Dry Only" is also available for additional drying time to be added to the end of a cycle. For special applications, requiring variations in cycle parameters, all settings on the BioClave 16 are fully adjustable.



BioClave Mini



BioClave 16

Technical Data:

B4000-M (BioClave Mini)

Chamber Volume:	8L
Max. Pressure:	29 PSI / 2 Bar
Chamber Dimensions:	6.7 x 12.5 in. / 17 x 31 cm
Tray Dimensions:	4.75 x 9.75 in. / 12 x 24.8 cm
Exterior Dimensions: (W x D x H)	20 x 13.5 x 12.9 in. 51 x 34 x 33 cm
Weight:	74 lbs (33 kg)
Electrical:	115 or 230V, 50-60Hz, 950W
Warranty:	1 Year

B4000-16 (BioClave)

Chamber Volume:	16L
Max. Pressure:	29 PSI / 2 Bar
Chamber Dimensions:	9 x 13.75 in. / 23 x 35 cm
Tray Dimensions:	6.5 x 10.75 in. / 16.5 x 27 cm
Exterior Dimensions: (W x D x H)	22 x 17.5 x 15.7 in. 56 x 44.5 x 40 cm
Weight:	89 lbs (40 kg)
Electrical:	115 or 230V, 50-60Hz, 1600W
Warranty:	1 Year

Ordering Information:

Item No.	Description:
B4000-M*	BioClave Mini Autoclave (8L)
B4000-16*	BioClave Autoclave (16L)
B4000-P*	Printer (For BioClave 16L only)
B4000-PA	Extra roll of paper for B4000-P

*115V with US plug. For 230v (EU plug), please add (-E).
This product is intended for research use only.

Temperature Control Equipment

Pg. 26



Benchmark **Hotplates & Stirrers**

Pg. 27



myTemp™ **Mini Incubators**

Pg. 28



myBlock™ **Dry Baths**

Pg. 29



isoBlock™ **Dry Baths**

Pg. 30



myBlock™ Mini **Dry Baths**

Pg. 31



myBath™ **Mini Water Bath (4L)**

Pg. 32



Incu-Shaker™ Mini **Shaking Incubator**

Pg. 33



Incu-Shaker™ 10L **Heating/Cooling Shaking Incubators**

Pg. 34



MultiTherm™ **Heating/Cooling Vortex Mixer**

Hotplates, Stirrers and Hotplate Stirrers



CE

- + Ceramic work surface, 7.5 x 7.5 in.
- + Stir speed from 60 to 1500rpm
- + Temperature control up to 380°C
- + Three models: heat-stir, heat only or stir only

Benchmark hotplates, stirrers and hotplate-stirrers feature an exceptionally durable, chemical resistant white ceramic work surface. Their space-efficient design (8 X 9 in. footprint), makes them ideal for use on crowded benchtops and inside of bio-hoods.

Advanced microprocessor controls with convenient turn knobs allow quick, precise adjustment and maintenance of speed and temperature. Safety indicator LED's on the front panel indicate when the heating and/or stirring functions have been activated. With a square 7.5 in work surface, all three models are compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles and other vessels. The hotplate/magnetic stirrer model (H4000-HS) comes complete with a support rod for mounting thermometers and temperature probes.

Technical Data:

H4000-H (Hotplate)

Temp. Range: **80 to 380°C**
 Platform: **7.5 x 7.5 in / 19 x 19 cm**
 Control: **Quick Adjustment Knob**
 Dimensions: **8 x 9 x 4.5 in.**
(W x D x H)
20 x 23 x 11.5 cm
 Electrical: **115V or 230V, 50-60 Hz, 400W**
 Warranty: **2 Years**

H4000-S (Magnetic Stirrer)

Speed Range: **60 to 1500 rpm**
 Platform: **7.5 x 7.5 in / 19 x 19 cm**
 Control: **Quick Adjustment Knob**
 Dimensions: **8 x 9 x 4.5 in.**
(W x D x H)
20 x 23 x 11.5 cm
 Electrical: **115V or 230V, 50-60 Hz, 300W**
 Warranty: **2 Years**

H4000-HS (Hotplate & Magnetic Stirrer)

Speed Range: **60 to 1500 rpm**
 Temp. Range: **80 to 380°C**
 Platform: **7.5 x 7.5 in / 19 x 19 cm**
 Control: **Quick Adjustment Knob**
 Dimensions: **8 x 9 x 4.5 in.**
(W x D x H)
20 x 23 x 11.5 cm
 Electrical: **115V or 230V, 50-60 Hz, 500W**
 Warranty: **2 Years**

Ordering Information:

Item No.	Description:
H4000-H*	Benchmark Hotplate
H4000-S*	Benchmark Magnetic Stirrer
H4000-HS*	Benchmark Hotplate Stirrer

*115V with US plug. For 230v (EU plug), please add (-E).

myTemp™ Digital Incubators (20L)

myTEMP™ Mini Digital Incubators



CE

- + Digital temperature control
- + Personal sized, 13 x 14.5 in. footprint
- + Accepts bottles & flasks up to 2L
- + Two models, heat only or heat/cool
- + Optional 3D mini shaker available for sample agitation

With digital temperature control, the MyTemp incubators provide convenient “set and walk away” operation, eliminating the need for external thermometers and repetitive “fine tuning” of an analog control knob. Simply choose the desired temperature and the incubator immediately begins to heat up (or cool down, -HC model only) while accurately monitoring the chamber temperature and conveniently displaying the temperature in real time on the large LED control panel.

Despite a modest footprint of 14.5 x 13”, the MyTemp incubators feature large internal chambers, capable of storing flasks and bottles up to 2 liter. In addition, the incubators include two adjustable/removable shelves for increased capacity. A mini nutating rocker (supplied with both flat and dimpled mats) is also available for agitation of samples during incubation.



MyTemp Mini shown with H3D1020
(Rocker settings are fixed to 24rpm and 20° tilt)

Ordering Information:

Item No.	Description:
H2200-H*	myTemp™ mini digital incubator, includes 2 shelves, (Heat Only, ambient +1 to 60°C)
H2200-HC*	myTemp™ mini digital incubator, includes 2 shelves, (Heat & Cool, ambient -15 to 60°C)
H3D-1020	Mini nutating rocker with flat cord, 6x8" platform, 115V
H3D-1020-E	Mini nutating rocker with flat cord, 6x8" platform, 230V
H2200-SH	Extra shelf, 10.5 x 8"

*Includes US plug. For EU plug, please add (-E).

Technical Data:

Temp. Range (-H):	Amb. +1° to 60°C
Temp. Range (-HC):	Amb. -15° to 60°C
Temp. Accuracy:	± 0.5°C (at 37°C)
Temp. Increments:	1°C
Temp. Uniformity:	± 1°C (at 37°C)
Capacity:	20L
Dimensions:	(w x d x h)
Interior:	10.3 x 9.3 x 12.8 / 26 x 23.5 x 33 cm
Exterior:	13.2 x 14.5 x 18.7 / 33.5 x 37 x 48 cm
Weight:	15 lbs (6.5kg)
Electrical:	100 to 240V, 50-60Hz
Warranty:	2 Years

myBlock™ Series Digital Dry Baths



myBLOCK™

- + Hinged lid, improves temperature uniformity and conserves energy
- + Optional external temperature probe for control of actual sample temperature
- + Available with unique Quick-Flip™ universal blocks

Benchmark's new myBlock™ series are the first digital dry baths to include advanced microprocessor controls, timed operation and a removable hinged lid. In addition, an optional external temperature feedback probe can be positioned directly inside a sample tube, providing real-time control and monitoring of **actual** sample temperature.

Both the single and dual block models can be ordered in a configuration that includes our unique Quick-Flip™ blocks. These universal blocks accept tubes from 0.5 to 2.0ml and, with just a quick flip to the other side, accommodate 0.2ml tubes, PCR strips or (in the dual block model only) a PCR plate. In addition, a wide variety of blocks are available for tubes up to 50ml.

Available with: *Patent Pending*
Quick-Flip™
universal micro-block

All purpose blocks for:

- ✓ 0.5ml tubes
- ✓ 1.5ml tubes
- ✓ 2.0ml tubes
- ✓ 0.2ml tubes
- ✓ 0.2ml strips
- ✓ PCR Plate

Item: BSH5002-2B

Three possible block configurations in dual model:

Side 1 & Side 1	Side 1 & Side 2	Side 2 & Side 2
48 x 1.5/2.0ml 28 x 0.5ml	24 x 1.5/2.0ml 14 x 0.5ml 48 x 0.2ml	96 x 0.2ml or One PCR Plate*

*Single block chamber in myBlock I prevents compatibility with PCR plates.

Ordering Information:

Item No.	Description:
BSH5001-1B*	myBlock I single chamber with 1 x BSWCMB
BSH5002-2B*	myBlock II dual chamber with 2 x BSWCMB
BSH5001	myBlock I single chamber, without blocks
BSH5002	myBlock II dual chamber, without blocks
BSH-TP1	External temperature sensor
BSWCMB	Block, Quick-Flip, 24 x 1.5/2.0ml, 14 x 0.5ml, 6 x PCR strips / 48 x 0.2ml (& in dual model only) one PCR plate
BSW1500	Block, 24 x 1.5ml
BSW1520	Block, 24 x 1.5/2.0ml
BSW05	Block, 24 x 0.5ml
BSW15	Block, 12 x 15ml**
BSW50	Block, 5 x 50ml**
BSW10	Block, 20 x 10mm (or 20 x 2.0ml)
BSW13	Block, 20 x 13mm**
BSW1516	Block, 12 x 15-16mm (or 12 x 10ml)*
BSW02	Block, 48 x 0.2ml tubes or 6 PCR tube strips
BSWPCR2	Block, 1 x 96-well PCR Plate (2 & 4 block models)
BSWPCR1	Block, 1 x 96-well PCR Plate (1 block model)
BSWMT	Block, 1 x Micro Plate (2 and 4 block models)
BSW01	Block, solid - for slides or custom machining

*115V with US plug. For 230v (EU plug), please add (-E).

**Tube height may prevent the transparent lid from closing.

Technical Data:

Temp. Range:	Amb. +5 to 105°C
Temp. Accuracy:	+/- 0.1°C
Temp. Increments:	0.1°C
Temp. Uniformity:	+/- 0.2°C
Timer:	1 min. to 99 hr & 59 min.
Dimensions (WxDxH):	
Single:	7 x 10 x 5 in. / 18 x 25 x 13 cm
Dual:	6.3 x 14.5 x 5 in. / 16 x 36.5 x 13 cm
Operating Temp. Range:	+4°C to +65°C
Electrical:	115V or 230V, 50-60 Hz, 120W (single) / 240W (dual)
Warranty:	2 Years

isoBlock™ Digital Dry Bath

ISO BLOCK™ Two independent block chambers



- + Two isolated chambers with independent time & temperature control
- + Hinged lid, improves temperature uniformity and conserves energy
- + Available with unique Quick-Flip™ universal blocks

The new IsoBlock model from Benchmark contains two isolated block chambers. Each chamber is controlled independently, allowing the dry bath to serve as two dry baths in one. The hinged (and removable) lid is designed with a dividing wall, when the lid is closed this dividing wall acts as a barrier, preventing air transfer between chambers.

The control panel features large digital displays of both time and temperature. At any point, either setting of a block can be adjusted, without affecting the settings of the other block.

A wide variety of blocks are available for accommodating nearly all popular tubes sizes. In addition, the unique Quick-Flip™ universal blocks accept tubes from 0.5 to 2.0ml and, with just a quick flip to the other side, accommodate 0.2ml tubes or PCR strips.



IsoBlock shown with lid open

Ordering Information:

Item No.	Description:
BSH6000*	IsoBlock drybath, with two independent chambers
BSWCMB	Block, Quick-Flip, 24 x 1.5/2.0ml, 14 x 0.5ml, 6 x PCR strips / 48 x 0.2ml & (in dual model only) one PCR plate
BSW1500	Block, 24 x 1.5ml
BSW1520	Block, 24 x 1.5/2.0ml
BSW05	Block, 24 x 0.5ml
BSW15	Block, 12 x 15ml [†]
BSW50	Block, 5 x 50ml [†]
BSW10	Block, 20 x 10mm (or 20 x 2.0ml)
BSW13	Block, 20 x 13mm [†]
BSW1516	Block, 12 x 15-16mm (or 12 x 10ml)*
BSW02	Block, 48 x 0.2ml tubes or 6 PCR tube strips
BSWPCR2	Block, 1 x 96-well PCR Plate (2 & 4 block models)
BSWPCR1	Block, 1 x 96-well PCR Plate (1 block model)
BSWMT	Block, 1 x Micro Plate (2 and 4 block models)
BSW01	Block, solid - for slides or custom machining

*115V with US plug. For 230v (EU plug), please add (-E).

[†]Tube height may prevent lid from closing, temperature accuracy may be affected.

Technical Data:

Temp. Range:	Amb. +5 to 105°C
Temp. Accuracy:	+/- 0.1°C
Temp. Increments:	0.1°C
Temp. Uniformity:	+/- 0.2°C
Timer:	1 min. to 99 hr & 59 min.
Dimensions (WxDxH):	6.3 x 14.5 x 5 in. 16 x 36.5 x 13 cm
Operating Temp. Range:	+4°C to +65°C
Electrical:	115V or 230V, 50-60 Hz 240W
Warranty:	2 Years

MyBlock™ Digital Dry Baths



myBLOCK™ Mini

- + Compact, fits in the palm of your hand
- + Exchangeable blocks for 0.2 to 50ml tubes
- + Clear cover ensures temperature uniformity
- + Room temperature to 37°C in two minutes
- + Portable; optional 12V car adapter

CE

Technical Data:

Temp. Range:	Amb. +5 to 100°C
Temp. Accuracy:	± 0.5°C
Temp. Increments:	0.1°C
Temp. Uniformity:	+/- 0.2°C
Dimensions:	4 x 6 x 4.5 in. / 10.5 x 15 x 11.5 cm
Block Dimensions:	1.85 x 2.8 x 1.25 in. 4.7 x 7.1 x 3.2 cm
Weight:	2lbs (1kg)
Electrical:	Universal Voltage 100-240V, 50-60 Hz, 50W
Warranty:	2 Years

Benchtop control of sample temperature has never been this easy or economical. The new myBlock Mini fits almost anywhere and can even be used "on-the-go" in cars, boats or wherever a 12 volt power source is available.

Its simple touch pad control with digital display is designed for "set and walk away" temperature selection and unrivaled accuracy. At less than 5 inches wide, myBlock Mini is truly the first personal block incubator.



Ordering Information:

Item No.	Description:
BSH200*	myBlock Mini Digital Dry Bath
BSH100-02	Block, 40 x 0.2ml or 5 PCR strips
BSH100-05	Block, 24 x 0.5ml
BSH100-15	Block, 15 x 1.5ml
BSH100-1520	Block, 15 x 1.5 or 2.0ml
BSH100-150	Block, 4 x 15ml (not compatible with cover/lid)
BSH100-500	Block, 2 x 50ml (not compatible with cover/lid)
BSH100-1232	Block, 15 x 2ml autosampler vials (12 x 32mm)
BSH100-1213	Block, 15 x 12-13mm diameter tubes & vacutainers
BSH100-CV	Block, 8 x cuvettes
BSH100-CU	Block, custom manufactured
BSH100-A12	12V vehicle power adapter

*Includes US plug. For EU plug, please add (-E).



myBLOCK™ HL
With Heated Lid

Prevents evaporation and condensation

CE

Ordering Information:

Item No.	Description:
BSH200-HL*	myBlock Mini Digital Dry Bath with heated lid
BSH100-02	Block, 40 x 0.2ml or 5 PCR strips
BSH100-05	Block, 24 x 0.5ml
BSH100-15HL	Block, 24 x 1.5ml

*Includes US plug. For EU plug, please add (-E).

The new myBlock™ HL is the first and only mini heat block featuring a heated lid for protecting samples against unwanted condensation and evaporation. Both the block and lid temperature can be selected independently in increments of 0.1°C, making this myBlock the ideal choice for the most temperature sensitive applications, including immunoassays, LAMP assays, enzyme reactions & other hypersensitive temperature procedures.

For technical data, please see above (myBlock Mini).
Temp Accuracy: +/- 0.3°C

MyBath™ Digital Water Bath (4L)

myBATH™

The complete personal water bath



- + Digital accuracy and convenience
- + Includes tube racks for 1.5/2.0ml, 15ml and 50ml tubes
- + Quik-CAL™ user calibration function
- + Hinged lid is also removable

Included Tube Racks:



This compact 4 liter water bath features easy to use controls that allow the user to digitally select and monitor temperature. Its hinged lid provides a secure, covered environment and can be flipped open (to the rear) or completely and instantly removed at the user's option.

The MyBath is also the only water bath that comes with test tube racks for 50ml, 15ml and 1.5/2.0ml tubes, making it complete and ready to use.

Designed with the molecular biology lab in mind, the MyBath 4 liter is the complete personal water bath.

Ordering Information:

Item No.	Description:
B2000-4*	MyBath™ 4L Digital Water Bath, includes tube racks for 1.5/2.0, 15 and 50ml tubes
B2000-T5	Optional test tube rack for 40 x 0.5ml tubes

*115V with US plug. For 230v (EU plug), please add (-E).

Technical Data:

Temp. Range:	Amb. +5 to 100 °C
Temp. Accuracy:	± 0.2°C
Temp. Increments:	0.1°C
Temp. Uniformity:	± 0.2°C
Capacity:	4L
Dimensions:	7.7 x 13.9 x 9 in. (H: 12.2 in. with lid) 19.5 x 35 x 23 cm (H: 31 cm with lid)
Chamber:	Stainless steel
Chamber Dimensions:	5.3 x 9.4 x 5.5 in. (WxDxH)
Weight:	15 lbs (6.5kg)
Electrical:	115 or 230V, 50-60Hz, 400W
Warranty:	2 Years

INCUSHAKER™ Mini



- + Exceptional temperature uniformity
- + Extremely compact: just 11" wide
- + Exchange flask clamps in one second with MAGIC Clamp™ magnetic system

The Incu-Shaker™ Mini is the most compact shaking incubator in its class. Despite the remarkably small footprint, a large 11.5 x 9.5 in. work space accepts several platforms and a variety of flasks, tubes and other common vessels.

The standard platform (included) features a non-slip, rubber coated surface, ideal for tissue culture flasks, Petri dishes and staining trays.

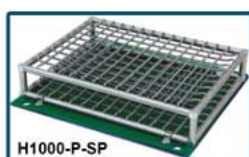
The convenient MAGIC Clamp™ platform is also available for use with Erlenmeyer flasks and test tube racks. The unique, magnetic attachment method is the easiest way to instantly change between flask clamps of different sizes.



The *INSTANT* flask attachment system



H1000-MR-1550



H1000-P-SP

MAGIC CLAMP™
Patent Pending

Technical Data:

Temperature Range:	Ambient +5 to 60°C
Temperature Increments:	0.1°C
Temperature Uniformity:	±0.25°C
Temperature Accuracy:	±0.1°C
Shaking Speed Range:	30 to 300rpm
Speed Increments:	1rpm
Shaking Orbit:	19mm (3/4")
Platform Dimensions:	9.5 x 11.5 in. / 23.5 x 29 cm
Exterior Dimensions (W x D x H):	11 x 15.7 x 10.8 in. / 28 x 40 x 27 cm
Height with Lid Open:	25 in. / 63 cm
Timer:	1 min. to 48 hours / continuous
Weight:	25 lbs. (11.5 kg)
Electrical:	115 or 230V, 50-60Hz, 300W
Warranty:	2 Years

Ordering Information:

Item No.	Description:
H1000-M*	Incu-Shaker™ Mini with non-slip rubber mat
H1000-MR	MAGic Clamp™ Universal platform (for flasks/tubes)
H1000-P-500	Dedicated platform with 5 x 500ml flask clamps
H1000-P-250	Dedicated platform with 8 x 250ml flask clamps
H1000-P-125	Dedicated platform with 12 x 125ml flask clamps
H1000-P-MP	4 x microplate platform (standard or deepwell)
H1000-P-SP	Spring rack platform, for uncommon vessels
Accessories for H1000-MR MAGic Clamp Platform	
H1000-MR-500	Flask clamp for MAGic clamp platform, 500ml (max. 5)
H1000-MR-250	Flask clamp for MAGic Clamp platform, 250ml (max. 8)
H1000-MR-125	Flask clamp for MAGic Clamp platform, 125ml (max. 12)
H1000-MR-50	Flask clamp for MAGic Clamp platform, 50ml (max. 20)
H1000-MR-MP	MAGic clamp for 1 x microplate (max. 4)
H1000-MR-1550	Tube Rack, 30x15 & 20x50ml (max. 1)
H1000-MR-T15	Tube Rack, 32 x 15ml (max. 2)
H1000-MR-T50	Tube Rack, 15 x 50ml (max. 2)

*115V with US plug. For 230v (EU plug), please add (-E).



Incu-Shaker™ 10L Shaking Incubators

INCUSHAKER™ 10L



- + Two models, heat only & heat/cool
- + Exceptional temperature uniformity
- + High capacity, up to 5 x 2L
- + Exchange flask clamps in one second with MAGIC CLAMP™ magnetic system
- + Optional shelf for Petri dishes, microplates, etc.



The *INSTANT* flask attachment system

Incu-Shaker™ 10L is a heavy-duty performer, designed for heavy workloads and continuous use. Its outstanding temperature accuracy and uniformity are supported by proprietary heat distribution technology that ensures that temperatures are precisely maintained throughout the chamber. Inconsistencies due to stratification are reduced to negligible levels and the selected temperature is precisely maintained within 0.25%, even in the corners. In the Incu-Shaker 10LR model, a powerful compressor provides cooling to temperatures as low as 15 degrees below ambient.

The powerful brushless induction drive is designed for years of trouble-free service, even under continuous use conditions with heavy loads. Noise and vibration are minimized by an advanced, computer designed motor isolation system. Like other Incu-Shaker models, the 10L is built to last.

A standard, rubber mat platform is included and is ideal for use with tissue culture flasks, Petri dishes, staining trays and other flat vessels. The convenient MAGIC CLAMP™ platform is also available for use with Erlenmeyer flasks and test tube racks. The unique, magnetic attachment method is the easiest way to instantly change between flask clamps of different sizes.

Ordering Information:

Item No.	Description:
H1010*	Incu-Shaker™ 10L with non-slip rubber mat
H1012*	Incu-Shaker™ 10LR (refrigerated) w/ non-slip rubber mat
H1010-MR	MAGic Clamp™ Universal platform (for flasks/tubes)
H1010-P-MP	6 x microplate platform (standard or deepwell)
H1000-P-SP	Spring rack platform, for uncommon vessels
H1010-SH	Shelf, 14 x 5.5" for Petri dishes, microplates, etc.
Accessories for H1010-MR MAGic Clamp Platform	
H1000-MR-2000	Flask clamp for MAGic clamp platform, 2L (max. 5)
H1000-MR-1000	Flask clamp for MAGic clamp platform, 1L (max. 9)
H1000-MR-500	Flask clamp for MAGic clamp platform, 500ml (max. 16)
H1000-MR-250	Flask clamp for MAGic Clamp platform, 250ml (max. 25)
H1000-MR-125	Flask clamp for MAGic Clamp platform, 125ml (max. 36)
H1000-MR-50	Flask clamp for MAGic clamp platform, 50ml (max. 49)
H1000-MR-MP	Clamp, 1 x microplate, for MAGic Clamp platform (max.. 8)
H1000-MR-1550	Tube Rack, 30x15 & 20x50ml (max. 4)
H1000-MR-T15	Tube Rack, 32 x 15ml (max. 8)
H1000-MR-T50	Tube Rack, 15 x 50ml (max. 8)
H1000-MR-T600	Tube/Bottle Rack, 4 x 500/600ml conical bottle (max. 4)

*115V with US plug, for 230v (EU plug), please add (-E).

Technical Data:

Temperature Range:	
H1010:	Ambient +5 to 60°C
H1012:	Ambient -15 to 60°C
Temperature Increments:	0.1°C
Temperature Uniformity	± 0.25%
Temperature Accuracy:	±0.1°C
Shaking Speed Range:	30 to 300rpm
Speed Increments:	1rpm
Shaking Orbit:	19mm (3/4")
Platform Dimensions:	17.8 x 17.8 in. / 45 x 45 cm
Exterior Dimensions:	
H1010 (W x D x H):	20 x 26 x 19 in. / 51 x 65 x 47 cm
H1012 (W x D x H):	20 x 31 x 22 in. / 51 x 79 x 56 cm
Height (lid open):	38 in. / 96.5 cm
Timer	1 min. to 48 hours or continuous
Weight (H1010):	120 lbs. (55 kg)
Weight (H1012):	170 lbs. (78 kg)
Electrical (H1010):	120 or 230V, 50-60Hz, 450W
Electrical (H1012):	120 or 230V, 50-60Hz, 950W
Warranty:	2 Years



MULTI-THERM™
COOL - HEAT - SHAKE



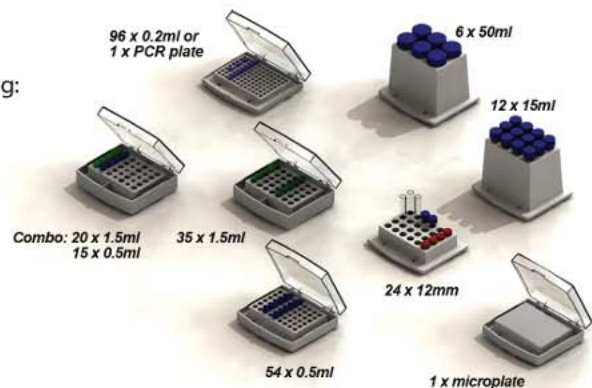
CE

- + Temperature control from 0° to 100°C
- + Exchangeable blocks, for tube sizes 0.2 to 50ml
- + Precision contoured wells for uniform thermal transfer
- + Two models: Heat/Cool or Heat only
- + Sequence link function for linking or repeating programs (HC model only)

The MultiTherm shaker is a temperature controlled vortexer, useful for a variety of molecular biology applications, including:

- Denaturation of DNA, RNA & proteins
- Lipid extractions
- Yeast and bacteria cultivation
- Restriction digests
- Reverse transcription
- DNA/plasmid isolation
- Gentle thawing of biological materials

Despite its modest 8 x 11 in. footprint, all popular tubes and plates are compatible, including as many as six 50ml tubes. Speed, time and temperature settings are continuously visible on the LCD, simultaneously showing both actual and selected values. Integral over-temperature control ensures long life, safety and sample integrity.



Technical Data:

Temp. Range (HC):	Ambient -20° to 100°C
Temp. Range (H):	Ambient +5° to 100°C
Heating Ramp Rate:	5.0°C / min.
Cooling Ramp Rate:	2.5°C / min. (HC only)
Temp. Accuracy:	+/- 1.0°C
Speed Range:	200 to 1500 rpm, or "off"
Motion / Orbit:	Orbital / 3mm
Capacity:	Per selected block
Dimensions:	8.25 x 11.5 x 8.25 in. 21 x 29 x 21 cm
Weight:	18lb. (8kg)
Electrical:	115 or 230V, 50-60Hz 500W
Warranty:	2 Years

Ordering Information:

Item No.	Description:
H5000-HC*	MultiTherm Shaker with heating and cooling
H5000-H*	MultiTherm Shaker with heating only
H5000-02	Block, 96 x 0.2ml or 1 PCR plate
H5000-05	Block, 54 x 0.5ml
H5000-CMB	Block, combination, 15x0.5ml & 20x1.5ml
H5000-15	Block, 35 x 1.5ml
H5000-20	Block, 35 x 2.0ml
H5000-12	Block 24 x 12mm (200-1200rpm / Amb.-10 to 100°C)
H5000-150	Block, 12 x 15ml (200-750rpm / Amb.-10 to 100°C)
H5000-500	Block, 6 x 50ml (200-750rpm / Amb.-10 to 100°C)
H5000-MP	Block, 1 x microplate (Amb. -10 to 60°C)
H5000-1232	Block, 24 x 2ml HPLC / Autosampler vials (12x32mm)
H5000-025	Block, 48 x 250ul vial insert (6x30mm)
H5000-CU	Block, custom drilled, for tubes/vials up to 40mm tall
H5000-WB	Block, multipurpose for liquids, beads, etc. chamber dimensions: 4 x 2.6 x 1"

*115V with US plug. For 230v (EU plug), please add (-E).

Also Available from Benchmark

Pg.36



CoolCube™ Microtube/PCR Plate Cooler

Pg.36



hybex™ Media Storage Bottles

Pg.37



Benchmark™ Agarose LE

Pg.37



EZ Pack™ Agarose Tablets

CoolCube™ Microtube and PCR Plate Cooler



The CoolCube™ is designed to store samples safely on the lab bench without sample degradation due to temperature increase or fluctuation. Simply place the CoolCube in a freezer overnight and it's ready for use, keeping samples cold, but not frozen. Maintains temperature at approximately 0° C for up to four hours.

Ordering Information:

Item No.	Description:
R1000	CoolCube™ Microtube and PCR plate cooler

CoolCube™

- + Maintains 0°C for 4 hours
- + Ideal for:
 - 1.5ml & 2.0ml microtubes
 - 0.2ml PCR tubes & strips
 - 96 well PCR plates
- + Also for use as a PCR workstation

Technical Data:

Temperature:	0°C for up to 4 hours
Capacity:	
Top Side:	36 x 1.5/2.0ml tubes
Bottom Side:	96 x 0.2ml tubes
	12 x 0.2ml strips
	1 x 96 well PCR plate
	10 x 1.5/2.0ml
Dimensions:	5.6 x 5.6 x 2.5 in.
	14.3 x 14.3 x 6.4 cm
Weight:	2 lbs (1 kg)
Warranty:	2 Years

hybex™ Media Storage Bottles

hybex™



- + Borosilicate 3.3 hybex glass
- + Autoclavable caps (GL45) & drip rings
- + Permanent enamel graduation markings
- + Large area for bottle marking/identification
- + Autoclavable, reuseable & breakage resistant
- + Five cap colors

Technical Data:

Material:	hybex™ borosilicate glass (3.3)
Cap Thread Size:	GL45*
Temperature Range:	-70° to 500°C
Sterilization:	Autoclave
Cap Material:	Polypropylene (140°C)
Cap Colors:	Standard Blue Green Purple Yellow White Assorted

* 50ml bottles are only supplied with blue GL32 sealing caps

Ordering Information:

Item No.	Description:
B3000-50-B	Bottle, 50ml with (GL32) blue cap, 10/pk.
B3000-100-B*	Bottle, 100ml with standard (GL45) blue cap, 10/pk.
B3000-250-B*	Bottle, 250ml with standard (GL45) blue cap, 10/pk.
B3000-500-B*	Bottle, 500ml with standard (GL45) blue cap, 10/pk.
B3000-1000-B*	Bottle, 1L with standard (GL45) blue cap, 10/pk.
B3000-2000-B*	Bottle, 2L with standard (GL45) blue cap, 10/pk.
B3000-SP-B*	Bottle, Starter Pack with standard (GL45) blue cap, Starter Pack of ten bottles, includes, 2x100ml, 3x250ml, 3x500ml and 2x1L
B3000-CAP-B*	Replacement cap, standard blue (GL45), 10/pk.
B3000-CAP2	Replacement cap, standard blue (GL32), 10/pk.
B3000-CAP-HTC	High temperature caps, red (GL45), up to 180°, 10/pk.

*Please replace (-B) with (-G) for green caps, (-P) for purple caps, (-Y) for yellow caps, (-W) for white caps or (-AS) for assorted caps (2 of each color).

Benchmark™ Agarose LE



- + Multi-purpose, high purity
- + **Green Choice**, free from organic solvents
- + Enhanced resolution and clarity
- + **Low EEO / increased electrophoretic mobility**
- + **RNase, DNase and Protease free**

Ordering Information:

Item No.	Description:
A1700	Benchmark Agarose LE, 25g
A1701	Benchmark Agarose LE, 100g
A1705	Benchmark Agarose LE, 500g

Also Available: Benchmark Specialty Agarose:

A1801-LM*	Benchmark Agarose Low Melting Point, 100g
A1801-HR*	Benchmark Agarose Hi-Res (PCR grade), 100g
A1801-31*	Benchmark Agarose 3:1, 100g

* For technical data, or any additional information, please visit www.BenchmarkScientific.com

Technical Data:

Gel Strength:	≥ 1200g/cm ² (1%)
Gel Temperature:	36°C ±1.5°C (1.5%)
Melt Temperature:	88°C ±1.5°C (1.5%)
EEO (-mr):	0.13
Moisture Content:	≤ 7%
Sulfate:	≤ 0.2%
RNase / DNase:	None Detected
Protease/Endonuclease:	None Detected
Store Conditions:	Room Temperature

EZ Pack™ Agarose Tablets (0.5g)



- + Eliminates weighing
- + **Fast dissolving, just 2 minutes**
- + Convenient blister pack protects tablet integrity
- + Consistent reproducible gels
- + **Low EEO, standard molecular biology grade**
- + **Produced without the use of organic solvents**

Ordering Information:

Item No.	Description:
A2501	EZ Pack agarose tablets, 100g (200 tablets)
A2505	EZ Pack agarose tablets, 500g (1000 tablets)

Technical Data:

Gel Strength:	≥ 1200g/cm ² (1%)
Gel Temperature:	36°C ±1.5°C (1.5%)
Melt Temperature:	88°C ±1.5°C (1.5%)
EEO (-mr):	0.13
Moisture Content:	≤ 7%
Sulfate:	≤ 0.2%
RNase / DNase:	None Detected
Protease/Endonuclease:	None Detected
Store Conditions:	Room Temperature

Benchmark Scientific



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