



2015-2016 Product Catalog



MicroCentrifuges



Shakers, Mixers and Rockers

Homogenizers

Autoclaves and Sterilization



Temperature Control Equipment



ACCURIS™ Instruments



Benchmark Scientific, Inc. is pleased to present our 2015 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

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| Eight Position Mini Centrifuge | 5ml Tube Mini Centrifuge |
| Twelve Position Mini Centrifuge | Mini Plate Centrifuge |
| PCR - 12 strip Mini Centrifuge | High Speed Microcentrifuge |

Shakers, Mixers & Rockers . . . Pg.8

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MicroCentrifuges

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myFuge™ Mini **MicroCentrifuge**

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MC12™ **High Speed MicroCentrifuge**

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PlateFuge™ **MicroCentrifuge**

myFUGE™ Mini



CE

- + **Clik-n-Lok™ Instant rotor attachment**
- + **Eight position microtube rotor**
- + **Storage compartment for PCR rotor and 0.5ml adapters**
- + **Decelerates in just 1 second**
- + **Four position PCR strip rotor**

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 improved braking system quickly and smoothly decelerates the rotor to a complete stop in just one second.

An eight-position microtube rotor is included and comes installed. Also included is a second rotor with increased capacity for four 0.2ml PCR strips (or 32 x 0.2ml tubes) which is stored in a convenient compartment on the bottom of the centrifuge. This compartment is also used for securing the included tube adapters for 0.5ml tubes.

A new *Clik-n-Lok™* rotor attachment system eliminates the requirement for set screws and tools during rotor exchange. Simply remove and attach rotors by hand, pulling or pressing the rotor onto the motor shaft.



Storage Compartment



Includes Both Rotors

Technical Data:

Speed:	6,000 rpm / 2,000 xg
Capacity:	8 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)	4.5 x 5.9 x 4.5 in. 11.4 x 15 x 11.4 cm
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**



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 (eight position) 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

StripSpin™ 12 MicroCentrifuge

2000
RCF



Rotor holds 12 position PCR strips



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

For labs using 12 position PCR strips

For technical data, please see model C1012

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).

MyFuge™ 5 MicroCentrifuge

2000
RCF



Rotor for 5ml microtubes

myFUGE™ 5

- + For quick spin downs of 5ml centrifuge tubes
- + Includes adapters for 5ml blood tubes
- + Starts and stops with closing/opening of the lid
- + Conserves valuable bench space

The MyFuge™ 5 microcentrifuge includes a four position rotor for compatibility with a variety of 5ml test tubes, including 5ml snap cap centrifuge tubes. In addition, this combination rotor has four additional slots for centrifuging standard microtubes (1.5/2.0ml). Simply close the lid and the centrifuge quickly accelerates to the fixed speed of 5,500rpm. Open the lid, and the rotor decelerates to a stop for removing samples.

The 5ml rotor positions accepts 5ml centrifuge tubes directly. While 5ml blood and culture tubes (12x75mm) and cryovials are also accepted with the included adapters. The microtube positions are also designed to accept 0.5 and 0.2ml tubes with the use of optional adapters.

Technical Data:

Speed:	5,500 rpm / 2,000 xg
Capacity:	4 x 5ml tubes & 4 x 1.5/2.0ml
Dimensions: (W x D x H)	5.5 x 7.9 x 5.5 in. 14 x 20 x 14cm
Weight:	2.2 lbs. / 1 kg
Electrical:	Universal Voltage 100-240V, 50-60 Hz, 250W
Warranty:	1 Year

Ordering Information:

Item No.	Description:
C1005*	myFuge 5 Mini Centrifuge with combination rotor, 4 x 5ml & 4 x 1.5/2.0ml
C1005-AC2	Adapter pack, for cryovials (0.5 to 2.0ml) and 1.5/2.0ml HPLC vials, 4/pk.
C1008-A5-6	0.5ml Adapter pack, 6/pk.
C1008-A2-6	0.2ml Adapter pack, 6/pk.

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

5ml Snap-Cap Centrifuge Tubes

New!
5ml



16.5 x 54mm
(without cap/rim)

- + **Compatible with standard equipment for 5ml & 15ml tubes**
- + **Easy-open flip top**
- + **Withstands up to 25,000xg**
- + **Dual graduations at every 0.2ml and 0.5ml**



Optional CapLock

This 5mL centrifuge tube takes all the conveniences of standard 1.5ml tubes and scales them up for larger volumes. These polypropylene tubes are RNase and DNase free and come with an attached cap that not only provides a tight, leak proof seal, but can also be effortlessly opened (or closed) with one hand. CapLock clips are available to maintain the integrity of the seal at extreme temperatures.

Ordering Information:

Item No.	Description:
C1005-T5*	Snap-cap Centrifuge Tubes, 5ml, 200 per pk. (2 bags of 100)
C1005-TAST	Assorted pack, 50 each of red, blue, green and yellow 5ml snap-cap centrifuge tubes (200 tubes)
C1005-T5-S	Sterile snap-cap Centrifuge Tubes, 5ml, 200 per pk. (10 bags of 20)
C1005-T5-R	Work Station Rack for 30 x 5ml tubes (60 x 5ml screw cap tubes)
C1005-FRZ	Freezer Box, 25 x 5ml, pack of 5 (polycarbonate with lid, suitable for -190°C)



*Also Available in blue (C1005-TB5), purple (C1005-TP5), red (C1005-TR5), yellow (C1005-TY5) & opaque black (C1005-T5-BLK)

5ml Screw Cap Centrifuge Tubes

New!
5ml



Height (without cap/rim): 54mm
Height (with cap): 64mm

- + **Compatible with standard equipment for 5 & 15ml tubes**
- + **Leakproof, "one-turn" cap**
- + **High centrifugal strength (up to 25,000xg)**
- + **Dual Graduations (at every 0.2ml and 0.5ml)**

The new 5ml screw cap tube from Benchmark Scientific is ideal for many of the applications traditionally carried out in a 2ml screw cap tube, but for larger volumes. Conversely, various protocols that call for 15ml tubes can be scaled down to reduce costs, space requirements and plastic waste. These tubes are available sterile in convenient racks with caps attached. RNase, DNase free.

Ordering Information:

Item No.	Description:
C1005-SC5	Centrifuge Tubes, 5ml non-sterile, 500/pk. (caps packed separately)
C1005-SC5-S	Centrifuge Tubes, 5ml sterile, 500/pk. (10 foam racks of 50 with caps attached)
C1005-T5-R	Work Station Rack for 60 x 5ml screw cap tubes
C1005-FRZ	Freezer Box, 25 x 5ml, pack of 5 (polycarbonate with lid, suitable for -190°C)

MC-12™ High Speed Microcentrifuge



- + **Less than 9 inches wide**
- + **Large LCD with rcf conversion**
- + **Whisper quiet operation**
- + **Decelerates in just 10 seconds**
- + **12 tube capacity (1.5/2.0ml)**

Benchmark's MC-12 is the first and only compact microcentrifuge capable of achieving centrifugal speeds up to the critical threshold of 16,000 xg, often held as the standard for many molecular biology/DNA protocols. It's brushless, maintenance free drive system makes it powerful, yet compact enough to allow each work station to be fully equipped with a personal centrifuge.



High Speed Range



Large LCD Controls

The MC-12 defines a new class of microcentrifuge: compact, quick, powerful and affordable. All aspects of microcentrifuge performance were taken into consideration and no compromises were made. In addition to its unsurpassed speed, the MC-12 also delivers shortened acceleration/deceleration times, whisper quiet operation and its computer-designed airflow pattern minimizes sample temperature increases during longer runs at high speeds.

All operating parameters are set using a single, conveniently located control knob and the large, bright LCD provides a clear indication of time and rpm or g-force. A separate momentary spin button permits instant spin downs, without setting or disturbing any preset parameters. The aircraft grade aluminum rotor accepts 1.5 to 2.0ml tubes directly, as well as 0.5 and 0.2ml tubes with optional adapters. For applications requiring sub-ambient temperatures, the MC-12 is cold room safe.

Technical Data:

Speed Range:	200 to 15,500 rpm (up to 16,100xg)
Capacity:	12 x 1.5/2.0ml
Deceleration:	10 seconds
Acceleration:	12 seconds
Speed Increment:	100 rpm or 100 rcf
Timer:	20 sec. to 99 min. / cont.
Momentary:	Yes
Dimensions: (W x D x H)	8.7 x 10.6 x 5.9 in. 22 x 27 x 15cm
Weight:	10.5 lbs / 4.8 kg
Electrical:	115V, 50HZ or 230V, 60Hz
Warranty:	2 years

Ordering Information:

Item No.	Description:
C1612*	MC-12 High Speed Microcentrifuge with 12 position rotor
C1008-A5-6	Optional adapter pack, 0.5ml 6/pk.
C1008-A2-6	Optional adapter pack, 0.2ml 6/pk.

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

400
RCF

PlateFuge™ MicroPlate Centrifuge



CE

PLATEFUGE™ MICROPLATE MICROCENTRIFUGE

- + Quickly spins down droplets in PCR plates
- + Unique rotor design prevents sample spillage (Patent Pending)
- + Accepts all popular PCR plates (skirted, semi and non) and most microtiter plates
- + Less than half the size of traditional centrifuges

Benchmark's PlateFuge™ is the first "mini" sized centrifuge with a swing out rotor for microplates. Centrifugation of plates before PCR ensures all reactants are in the bottom of the wells for optimized concentrations and improved yields.

In spite of its remarkably small footprint (9x10 in.), the PlateFuge™ includes a uniquely designed, swing out rotor (patent pending) capable of securing 2 microplates. The easily accessible rotor chamber includes two plate carriers that rest at a 75° angle. This allows plates to be inserted confidently without sealing tapes or caps. Upon closing the lid of the centrifuge, the rotor accelerates and the centrifugal force "swings" the plates into a horizontal position. Any droplets on the walls of the plate, quickly concentrate into the well bottoms.

With a g-force of over 400 xg, most samples can be spun down in less than 20 seconds. To end a run, simply open the lid and the automatic, electronic brake brings the rotor to a quick, smooth stop in about 7 seconds. Plates can then be easily removed from the rotor.



Before & after centrifugation
(angled position)



During centrifugation
(horizontal position)

Ordering Information:

Item No.	Description:
C2000*	PlateFuge Microplate Centrifuge with rotor and plate carriers
C2000-A02	Tube Adapter, holds 96 x 0.2ml or 8 and 12 position PCR strips, 2/pkg.
C2000-DWMP	Optional rotor with carriers for deep well plates up to 35mm tall (speed: 1500rpm)

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

Technical Data:

Speed:	2100 rpm / 400 xg
Capacity:	2 x 2 PCR plates* 2 x microtiter plates 24 x 0.2ml PCR strips
Deceleration:	7 seconds
Dimensions: (W x D x H)	9.2 x 10.2 x 7.75 in. 23 x 26 x 19.7 cm
Weight:	9 lbs. / 4.1 kg
Electrical:	115 or 230V, 50-60 Hz, 250W
Warranty:	2 Years

*When stacking skirted PCR plates, max. capacity is 4 plates.

Shakers, Mixers and Rockers

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BenchMixer™ & Mortexer™ **Vortex Mixers**

Pg. 11



Vornado™ **Mini Vortexer**

Pg. 12



BenchMixer™ XL **Vortex Mixer**

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TubeRocker **Fixed Speed Rocker**

Pg. 13



BenchBlotter™ **Fixed Speed Rocker**

Pg. 14



BenchRocker™ 2D **Variable Rocker**

Pg. 14



Everlast™ 247 **Variable Rocker**

Pg. 15



BlotBoy™ & BioMixer™
Fixed Speed 3D Rockers

Pg. 16



BenchRocker™ 3D Rocker

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BenchWaver™ 3D Rocker

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Orbi-Blotter™ Low Speed Orbital Shaker

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Orbi-Shaker™ Orbital Shakers

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Orbi-Shaker™ MP Microplate Shaker

Pg. 21



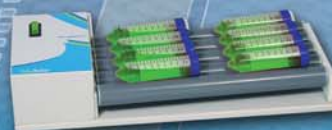
Orbi-Shaker™ CO₂ Remote Shakers

Pg. 23



Benchmark™ Rotating Mixer

Pg. 24



TubeRoller™ Tube & Bottle Rollers



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**

MORTEXER™
 MORE Power, MORE Flexibility... MORE Vortexer!



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

Available Accessories:



BV1000-FLAT



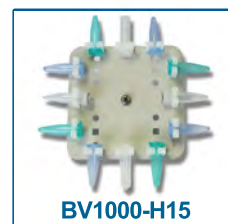
BV1000-COMBO



BV1000-H500



BV1000-H150



BV1000-H15

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 +45° 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).





Vornado™ Miniature Vortex Mixer



- + Powerful vortexing, for tubes up to 50ml
- + Insta-Touch™ pressure activated operation
- + “Mini” sized; less than 4” wide



Insta-Touch™ pressure activation



Extremely compact

Powerful is the best word to describe this *mini* vortexer. With a 4mm orbit and fixed speed of 2800rpm, the Vornado instantly vortexes even the largest samples, including nearly full 50 ml tubes. Despite its powerful motor, the Vornado has a footprint of less than 4x4 inches, allowing it to fit on even the most crowded bench.

Insta-Touch operation means that the motor is automatically activated with slight pressure on the center of the cup head. Operation is smooth, quiet and efficient. When pressure is removed, operation immediately ceases.

The Vornado's unique head design prevents liquids from entering the housing, prolonging motor life. The unit is available with five different cup head colors.

Technical Data:

Speed:	2800rpm (fixed)
Motor Activation:	Touch
Orbit:	4mm
Exterior Dimensions: (W x D x H)	3.7 x 3.9 x 2.6 in. 9.4 x 9.9 x 6.6 cm
Operating Temp. Range:	+4°C to +45°C
Weight:	1 lb (0.4kg)
Electrical:	100 to 240V, 50-60Hz, 150W
Warranty:	2 Years

Ordering Information:

Item No. Description:

BV101*	Vornado Miniature Vortex Mixer, gray cup head
BV101-B*	Vornado Miniature Vortex Mixer, blue cup head
BV101-G*	Vornado Miniature Vortex Mixer, green cup head
BV101-P*	Vornado Miniature Vortex Mixer, purple cup head
BV101-R*	Vornado Miniature Vortex Mixer, red cup head



BV101



BV101-B



BV101-G



BV101-P



BV101-R

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



BENCHMIXER™ XL MULTI-TUBE VORTEXER

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

CE

Available Accessories:



50 x 1.5/2.0ml



15 x 50ml



50 x 5,7 or 10ml



3 x microplates



9 x 50ml Horizontal
QuEChERS

The BenchMixer™ XL is a heavy duty vortex mixer designed for hands-free mixing in tubes, flasks, vials or cylinders. It is ideal for the QuEChERS pesticide analysis method and is instantly adaptable to an exceptionally broad range of vessels, racks and applications (horizontal or vertical). The precisely balanced drive system includes an oversized motor that delivers accurate, reproducible speeds up to 2500rpm with rattle-free operation and minimal vibration. The programmable pulsing function allows for time specific interval mixing, increasing agitation.

The 7x12 inch platform accommodates a wide variety of standard, pre-drilled tube racks (a complete listing can be found in the ordering information section below). Additionally, BenchMixer XL can easily be adapted to almost any type of vessel commonly found in the laboratory (contact us for details).

Using BenchMixer XL is easy; after loading the sample rack and tightening the locking knobs, select the desired speed and run time on the large digital control panel. Then, simply press "Start" and the BenchMixer XL will perform unattended mixing for up to 100 hours.

BenchMixer XL's large capacity and adaptability make it an ideal choice for the medium to high throughput laboratory.

Technical Data:

Speed Range:	500 to 2500 rpm
Orbit:	3.6mm
Timer:	1 min. to 99hr, 59 min.
Platform Dimensions:	12 x 7 in. / 30 x 17.8 cm
Dimensions: (W x D x H)	15 x 9.2 x 16.5 in. 38.5 x 23.5 x 42 cm
Weight:	29 lbs (13kg)
Electrical:	100 to 240V, 50-60Hz, 60W
Warranty:	2 Years

Ordering Information:

Item No.	Description:
BV1010*	BenchMixer XL MultiTube Vortexer, includes 50 x 12mm tube 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-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.)

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



TubeRocker™ Fixed Speed Rocker (2D)



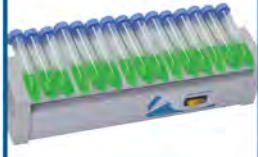
CE

- + 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 +45° C
Dimensions:	13.3 x 5.5 x 4 in. / 33.6 x 13.5 x 10 cm
Weight:	4 lbs (1.8kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	2 Years

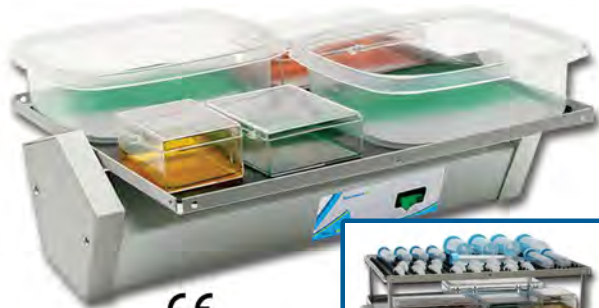
Ordering Information:

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 Fixed, 10 rpm (230V)
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 +45° 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 flat 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 +45° 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 lbs (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. / 7.6 cm
Weight:	20 lbs (9kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	5 Years

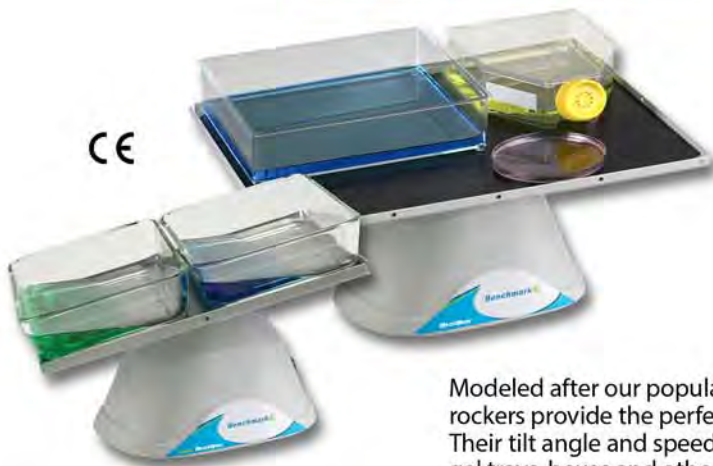
Ordering Information:

Item No.	Description:
BR5000*	Everlast™ 247 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)



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

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.

Ordering Information:

Item No.	Description:
B3D1008*	Mini BlotBoy with flat mat (10.5x7.5")*
B3D1308*	BlotBoy with flat mat (12x12")*
B3D-DIMPLED	Dimpled mat (10.5x7.5") for B3D1008
BR1000-DIMPLED	Dimpled mat (12 x 12") for B3D1308
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 (230V: 10rpm)
Tilt Angle:	Fixed, ± 8°
Platform Size (B3D1008):	10.5 x 7.5 in. / 27 x 19 cm
Platform Size (B3D1308):	12 x 12 in. / 30 x 30 cm
Load Capacity:	4 lbs (1.8kg)
Operating Temp. Range:	+4° C to +45° 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
Weight:	4.4 lb s (2kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	2 Years



BioMixer™ Gyrotory Rockers (3D)



- + Includes dimpled mat; perfect for mixing blood & centrifuge tubes
- + Tri-directional motion for thorough, uniform mixing

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.

Ordering Information:

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

Technical Data:

Speed Range:	Fixed, 24 rpm (230V: 20rpm)
Tilt Angle:	Fixed, ± 20°
Platform Size: (B3D1020):	10.5 x 7.5 in. / 27 x 19 cm
Platform Size: (B3D1320):	12 x 12 in. / 30 x 30 cm
Load Capacity:	4 lbs (1.8kg)
Operating Temp. Range:	+4° C to +45° 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
Weight:	4.4 lb s (2kg)
Electrical:	115 or 230V, 50-60Hz, 50W
Warranty:	2 Years

BenchRocker™ 3D 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 Insta-Tilt™ 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. A stacking platform can be purchased as an accessory, effectively doubling the usable surface area of each model.

BenchRocker 3D features a maintenance free, brushless motor, capable of loads up to 5 lbs and is safe for use in cold rooms and incubators.

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 +45°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

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).



BenchWaver™ Undulating Rocker (3D)



CE

BENCHWAVER™

- Undulating, 3-dimensional motion
- Adjustable speed and tilt
- Large, 13 inch platform
- Ideal for staining, washing and general mixing



B3D5000 with B3D5000-STK



B3D5000 with B3D5000-DIMP

The BenchWaver™ combines the basic rocking motion of traditional platform rockers with the circular motion of an orbital shaker. This combination is ideal for generating the optimum 3-dimensional “undulating” motion commonly preferred for molecular biology applications.

The tilt angle is instantly adjustable (no tools or disassembly required) from 0 to 10° and the mixing speed can be adjusted from 5 to 105 rpm, using the large, user-friendly LCD control panel. Combined control of both parameters (tilt and speed) makes the BenchWaver a versatile workhorse that can provide anything from gentle, slow moving waves to a rapid, more vigorous motion. Additionally, time of operation can be selected from 1 minute up to 99 hours or for continuous operation.

The large 13.5 x 13 inch platform is supplied complete with a non-slip, rubber mat. An optional stacking platform is available for users requiring additional mixing capacity. BenchWaver is a reliable and versatile instrument and can be used in refrigerated or incubated environments from 2° to 60°C.

Ordering Information:

Item No.	Description:
B3D5000*	BenchWaver with platform and flat mat
B3D5000-STK	Optional stacking platform with flat mat (13.5x13")
B3D5000-DIMP	Optional dimpled mat (13.5x13")

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

Technical Data:

Speed Range:	Variable, 5 to 105 rpm
Tilt Angle:	Variable, 0 to ± 10°
Platform Size:	13.5 x 13 in. / 34 x 33 cm
Load Capacity:	20 lbs (9kg)
Operating Temp. Range:	+4°C to +60°C
Dimensions: (W x D x H)	13 x 13.5 x 9.75 in. 33 x 34 x 24.75 cm
Stacking Clearance:	4.5 in. / 7.6 cm
Weight:	12 lbs (5.5kg)
Electrical:	100 to 240V, 50-60Hz, 50W
Warranty:	2 Years



CE

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



Optional Stacking Platform (Clearance 3")

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 4kg 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 9 lbs (4kg)
Platform Size:	14 x 12 in. / 35 x 30 cm
Operating Temp. Range:	+4°C to +45°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 14 x 12" flat mat (3" clearance)

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

See Pg. 40-41

Shaking Incubators



INCUSHAKER™ Series

- + Exceptional temperature uniformity
- + Three models,
Incu-Shaker Mini: Up to 5 x 500ml (or 2 x 1L)
Incu-Shaker 10L: Up to 5 x 2L
Incu-Shaker 10LR: Up to 5 x 2L (with cooling)
- + 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
Timer:	1 min. to 99hr, 59 min.
Dimensions: (W x D x H):	11 x 10.7 x 5 in. / 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. 22 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

Technical Data:

Speed Range:	Variable, 30 to 300 rpm
Speed Increment:	1 rpm
Motion / Orbit:	Orbital / 19mm
Load Capacity:	5x1L or 14 lbs (6.4kg)
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

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

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

**Flask clamps and tube racks sold separately, see pg. 22 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™ XL with flat mat platform (18 x 18 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 6 x microplates

*115V with US plug. For 230v (EU plug), please add (-E).
 **Flask clamps and tube racks sold separately, see page 22 for a complete listing.

Technical Data:

Speed Range:	Variable, 30 to 300 rpm
Speed Increment:	1 rpm
Motion / Orbit:	Orbital / 19mm
Load Capacity ^{W x D x H} :	5 x 2L or 9 x 1L / 65 lbs (30kg)
Platform Size:	18 x 18 in. / 45 x 45 cm
Timer:	1 min. to 48 hr / Continuous
Operating Temp. Range:	+4°C to +65°C
Dimensions:	18.5 x 21.25 x 5 in. / 47 x 54 x 12.5 cm
Weight:	64lbs (29kg)
Electrical:	120 or 230V, 50-60Hz
Warranty:	2 Years

Orbi-Shaker™ MP Microplate Shaker



CE

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

Ordering Information:

Item No.	Description:
BT1500*	Orbi-Shaker™ MP microplate shaker, includes platform for 4 microplates
H6000-MP	Optional tube adapter, 12 x 1.5/2.0ml & 8 x 0.5ml

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

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

ORBi-SHAKER™ CO₂ Remote Controlled, All Environment Shakers



Item: BT4000

- ✦ Designed to fit and maximize capacity in most CO₂ incubators and chambers
- ✦ Remote controlled, adjust settings without disturbing the CO₂ environment
- ✦ Instantly exchange flask clamps with MAGic Clamp™ accessories



Remote controller adjusts shaker settings from outside of the chamber and magnetically attaches to most incubators

The new Orbi-Shaker CO₂ series is designed for shaking, mixing & aeration applications in extreme environments, including CO₂ incubators. It can withstand temperatures from 0 to 65°C and humidity levels up to 100%.

To avoid contamination, unintentional release of gas or deviations from protocol, all settings are adjusted via the included remote control module. This module can be stored outside of the chamber and connects to the shaker via a flat (1mm thickness) cable, that easily passes through a port or underneath an incubator door without compromising the seal. This allows for user adjustment of run time or mixing speed without opening the chamber door(s).

The instrument is supplied with a non-slip rubber mat platform. In addition, convenient MAGic Clamp™ platforms (of multiple sizes) are also available for use with Erlenmeyer flasks and test tube racks. The unique magnetic attachment method has been widely recognized as the easiest way to instantly change between flask clamps of different sizes.

Compatibility Chart:	Thermo®		HeraCell™		New Brunswick™		Shel Lab®		Nuair™		Fisher®		VWR® Symphony™		N/A Not Compatible
	150	240	Galaxy® S411	Galaxy® 170	142L & 167L	4750, 4850, 4950, 5800	IsoTemp™ 184	5.3A	8.5A						
Orbi-Shaker CO ₂ (14 x 12" platform)	○	○	●	○	○	○	○	○	○	○	○	○	○	○	
Orbi-Shaker CO ₂ XL (16 x 16.5" platform)	●	○	N/A	●	○	○	○	○	○	○	○	○	○	○	
Orbi-Shaker CO ₂ XL (18 x 18 platform)	N/A	●	N/A	N/A	●	○	○	○	○	○	○	○	N/A	○	

○ Compatible
● Compatible, Maximizes Capacity

Ordering Information:

Item No.	Description:
BT4000*	Orbi-Shaker™ CO ₂ w/ flat mat platform (13 x 12 in.)
BT4010*	Orbi-Shaker™ CO ₂ XL w/ flat mat platform (16 x 16.5 in.)

MAGic™ Clamp Universal Platforms for flask clamps & tube racks**

BT3000-MR	MAGic Clamp™ platform (14x12 in.) for BT4000
BT4010-MR	MAGic Clamp™ platform (16x16.5 in.) for BT4010
H1010-MR	MAGic Clamp™ platform (18x18 in.) for BT4010

Additional Platforms:

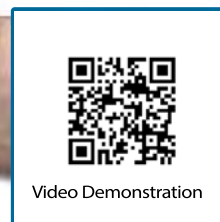
H1000-P-SP	Universal spring platform for unique vessel types
H1000-P-MP	Dedicated platform for 4 x microplates

*115V with US plug. For 230v (EU plug), please add (-E).
 **Flask clamps and tube racks sold separately, see page 22 for a complete listing.

Technical Data:

Speed Range:	Variable, 30 to 300 rpm
Speed Increment:	1 rpm
Motion / Orbit:	Orbital / 19mm
Max. Capacity (BT4000):	1 x 2L or 5 x 1L
Max. Capacity (BT4010):	5 x 2L or 9 x 1L
Timer:	1 min. to 48 hr / Continuous
Platform Dimensions:	
BT4000 (included):	13 x 12 in. / 33 x 30 cm
BT4010 (included):	16 x 16.5 in. / 40 x 42.5 cm
Operating Temp. Range:	0°C to +65°C
Dimensions:	
BT4000 Shaker:	11.9 x 13.4 x 3.5 in. / 30 x 34 x 9 cm
BT4010 Shaker:	17 x 18 x 5 in. / 43 x 45.75 x 12.7 cm
Weight (BT4000):	25 lbs, 11.5kg
Weight (BT4010):	50lbs, 23kg
Cord Length:	60.5 in. / 154 cm
Electrical:	120 or 230V, 50-60Hz, 600W
Warranty:	2 Years

Orbi-Shaker™ Series MAGIC Clamp™ Accessories



with
MAGIC CLAMP™
Patent Pending

Maximum Flask 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 CO ₂	Available For Orbi-Shaker XL (CO ₂)
H1000-MR-CMB	NEW! Adjustable flask clamp, accepts 125, 250 & 500ml Erlenmeyer flasks	12 / 8 / 5	20 / 14 / 9	36 / 25 / 16
H1000-MR-50	Flask clamp, 50ml Erlenmeyer flask	20	30	49
H1000-MR-125	Flask clamp, 125ml Erlenmeyer flask	12	20	36
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
H1000-MR-3000	Flask clamp, 3L (or 2.8L) Fernbach flask	N/A	1	4

Maximum Capacity for MAGIC Clamp Platforms (Test Tube / Micro Plate Racks)

Item No.	Description:	Platform H1000-MR	Platform BT3000-MR	Platform H1010-MR
		Available For Orbi-Shaker JR.	Available For Models Orbi-Shaker & Orbi-Shaker CO ₂	Available For Orbi-Shaker XL (CO ₂)
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
H1000-MR-TSR	Angled tube rack holder (with adjustable tilt)	2	6	8



Benchmark™ Rotating Mixer



CE

- + Adjustable speed and tilt
- + Reversing mode for increased agitation
- + Cold room and incubator safe
- + Includes three rotisseries for all common tube sizes

Included Rotisseries:



48 x 1.5/2.0ml
(48 x 10-140mm tubes)



20 x 15ml
(20 x 15-200mm tubes)



12 x 50ml
(12 x 25-350mm tubes)

The Benchmark Rotating Mixer provides gentle to vigorous mixing of laboratory samples up to 50ml. With adjustable speed control and tilt angle, the Rotating Mixer is ideal for a variety of applications, from mixing blood samples to the preparation of homogenous dispersions.

Three rotisserie tube holders are included for mixing all common laboratory sample tubes and each individual tube holder is constructed of rubber coated steel to provide a secure grip, preventing any “wobble” or loosening during mixing at high speeds.

A unique reversing mode is selectable for more intense mixing. In reversing mode, the mixer rotates for up to 360° then stops and rotates in the reverse direction. This back and forth motion occurs repeatedly until the set time has expired.

With included accessories and unique mixing options, Benchmark’s Rotating Mixer offers increased flexibility that is not commonly found with traditional laboratory rotators.

Ordering Information:

Item No. Description:

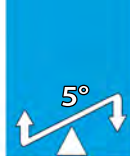
R5010* Benchmark Rotating Mixer, Includes three rotisserie tube holders for 1.5/2.0, 15 and 50ml tubes

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

Technical Data:

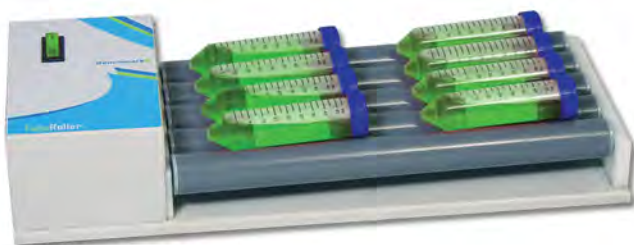
Speed:	1 to 40rpm
Tilt Angle:	0 to 90° (vertical to horizontal)
Capacity:	12x50ml, 20x15ml or 48x2.0ml
Timer:	1 sec. to 9 hrs or continuous
Exterior Dimensions: (W x D x H)	8.25 x 10.5 x 12.5 in. 21 x 27 x 32 cm
Operating Temp. Range:	+4° to +65°C
Weight:	7 lbs (3.2kg)
Electrical:	100 to 240V, 50-60Hz, 25W
Warranty:	2 Years

TubeRoller Tilting Tube & Bottle Roller

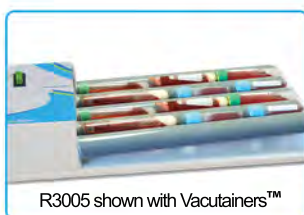


R3010

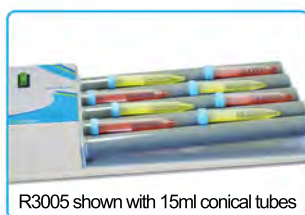
- + Gentle rolling motion
- + Smooth 5° tilting motion
- + Accepts tubes and bottles (diameter from 8mm to 200mm)



R3005



R3005 shown with Vacutainers™



R3005 shown with 15ml conical tubes

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 approximately 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.

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**
 Individual Roller Dims: **1.2 x 12.5 in. / 3 x 32cm**
 Vessels Accepted: **8mm to 200mm 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:	11 lbs (5kg)	17.6 lbs (8kg)

Typical Sample Load Capacity:

Vessel	<u>R3005</u>	<u>R3010</u>
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).

Homogenizers

Pg. 26



D1000 Hand Held Homogenizer

Pg. 27



BeadBug™ Microtube Homogenizer

Pg. 28



BeadBlaster™ 24 Homogenizer

D1000 Homogenizer



Ergonomic, "Slim-line" handle design

- + **Quickly homogenizes samples**
(in under 30 seconds)
- + **For volumes 100µl to 250ml**
- + **Supplied with two generator probes**
(5mm and 7mm)

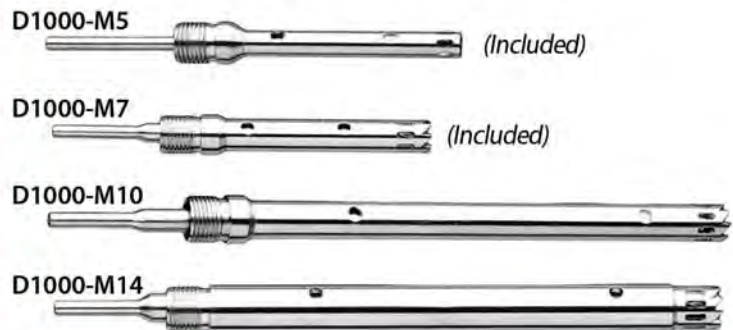
Benchmark's new handheld homogenizer, the D1000, is designed to rapidly homogenize, emulsify, suspend and disrupt biological samples. Ideal for use with microtubes, the homogenizer works well with samples from 0.1ml to 250ml (depending upon the generator probe used).

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. The 5mm and 7mm diameter have a 50mm length for use with samples in microtubes. The 10mm x 115mm is ideal 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 30,000rpm
Capacity:	0.1 to 250ml
Noise Level:	<70db
Dimensions (W x D x H): (without probe)	1.8 x 2.3 x 9 in. 4.5 x 5.8 x 22.5 cm
Weight:	1.35 lbs (0.6kg)
Electrical:	115 or 230V, 50-60Hz 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 15 and 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 Homogenizer

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

BeadBug™ Microtube Homogenizer

BEADBUG MICROTUBE HOMOGENIZER

- ✦ **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**



Less than 7" wide



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.



Video Demonstration



Benchmark offers a wide range of homogenization beads (including glass, zirconium, stainless steel, etc.)

Ordering Information:

Item No.	Description:
D1030*	BeadBug™ Microtube Homogenizer*
Prefilled 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:	2,800 to 4,000rpm
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

Additional bead types are also available (in both bulk and prefilled kits). Please contact Benchmark for a complete listing.

BeadBlaster™ 24 Microtube Homogenizer



- + **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 prefilled 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. Benchmark also offers a wide variety of unlisted bead types (in both bulk and prefilled kits). Please contact Benchmark for a more complete listing.



Stainless steel, 24 position tube carrier



Video Demonstration



Technical Data:

Speed:	4.00 to 7.00 m/s
Speed Increments:	0.05 m/s
Capacity:	24 x 2.0ml tubes or 6 x 5ml
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: (W x D x H):	11 x 14.2 x 15.2 in. 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* with 24 x 2.0ml tube holder
D2400-R5	Optional tube holder, 6 x 5ml
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
D1034-28	5ml tubes (snap cap) with stainless beads, ØD 2.8mm, 50pk

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

Autoclaves and Sterilization

Pg. 30



BactiZapper™
MicroSterilizer

Pg. 31



BioClave™ Mini
Bench Top Autoclave

Pg. 31



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 glass tube mouths

The BactiZapper™ has an asbestos-free core element that quickly heats to produce 815°C (1500°F) providing complete sterilization 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 exceptionally 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: (W x D x H)	4 x 6 x 6.5 in. 10.2 x 15.2 x 16.5 cm
Weight:	2.9 lbs. (1.3 kg)
Electrical Data:	115 or 230V, 50-60Hz 170 Watts
Warranty:	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

- ✦ 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 been released.

CE



B4000-M

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. In addition, a built in USB port allows for transfer of these parameters to a computer for printing or storage of cycle data.

Both BioClaves offer 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 BioClaves 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 31cm
Tray Dimensions:	4.75 x 9.75 in. / 12 x 24.8 cm
Exterior Dimensions:	20 x 13.5 x 12.9 in.
<small>(W x D x H)</small>	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:	22 x 17.5 x 15.7 in.
<small>(W x D x H)</small>	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 series
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. 34



Benchmark **Hotplates & Stirrers**

Pg. 35



myTemp™ **Mini Incubators**

Pg. 36



myBlock™ **Dry Baths**

Pg. 37



isoBlock™ **Dry Baths**

Pg. 38



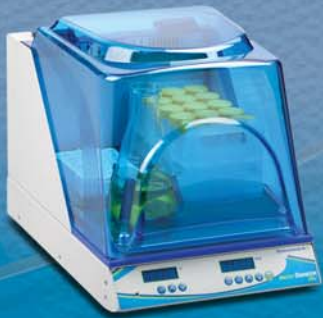
myBlock™ Mini Heating/Cooling **Dry Baths**

Pg. 39



myBath™ **Water Baths**

Pg. 40



Incu-Shaker™ Mini **Shaking Incubator**

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

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SB-12L **Shaking Water Bath**

Pg. 43



MultiTherm™ **Heating/Cooling Vortex Mixer**

Pg. 43



Incu-Mixer™ MP **Heated Microplate Shakers**

Pg. 44



TC-9639 **Thermal Cycler (96 well)**

Digital Hotplates, Stirrers & Hotplate Stirrers



H3760-S



H3760-H



H3760-HS



- + Large, backlit LCD display
- + Safety LED indicates hot surface
- + White ceramic top plate
- + Control actual sample temperature (with optional probe)



Large, backlit LCD display

Technical Data:

H3760-H (Hotplate)

Temp. Range: **Room Temp. +5°C to 380°C**
 Platform: **6.5 x 6.5 in. / 16.5 x 16.5 cm**
 Dimensions: **7 x 10.5 x 4 in.**
(W x D x H)
18 x 26.7 x 10.1 cm
 Weight: **4 lbs (1.8 kg)**
 Electrical: **115V or 230V, 50-60 Hz, 500W**
 Warranty: **2 Years**

H3760-S (Magnetic Stirrer)

Speed Range: **200 to 1500 rpm**
 Platform: **6.5 x 6.5 in. / 16.5 x 16.5 cm**
 Dimensions: **7 x 10.5 x 4 in.**
(W x D x H)
18 x 26.7 x 10.1 cm
 Weight: **4 lbs (1.8 kg)**
 Electrical: **115V or 230V, 50-60 Hz, 100W**
 Warranty: **2 Years**

H3760-HS (Hotplate & Magnetic Stirrer)

Speed Range: **200 to 1500 rpm**
 Temp. Range: **Room Temp. +5°C to 380°C**
 Platform: **6.5 x 6.5 in. / 16.5 x 16.5 cm**
 Dimensions: **7 x 10.5 x 4 in.**
(W x D x H)
18 x 26.7 x 10.1 cm
 Weight: **4 lbs (1.8 kg)**
 Electrical: **115V or 230V, 50-60 Hz, 500W**
 Warranty: **2 Years**

Benchmark hotplates, stirrers and hotplate-stirrers feature an exceptionally durable, chemical resistant, white ceramic work surface. Their space-efficient design (7 X 10.5 in. footprint), makes them ideal for use on crowded benchtops and inside bio-hoods.

Advanced microprocessor controls allow quick, precise adjustment of speed and temperature. The large, backlit LCD display provides constant visualization of the speed and temperature while a safety LED indicates when the top plate is above 50°C. In addition, an optional probe is available for applications that require precise temperature control. When connected, the probe provides direct feedback to the microprocessor, which continuously adjusts and maintains the selected temperature *in the sample* within +/- 1°C.

With a square 6.5 in. work surface, all three models are compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles and other vessels. An optional support rod (H3760-ROD) is available for mounting thermometers, temperature probes, etc.

Ordering Information:

Item No.	Description:
H3760-H*	Benchmark digital hotplate
H3760-S*	Benchmark digital magnetic stirrer
H3760-HS*	Benchmark digital hotplate stirrer
H3670-ROD	Optional support rod
H3760-TP	Optional temperature probe

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

myTemp™ Digital Incubators (20L)

myTEMP™ Mini Digital Incubators



- ✦ **Digital temperature control**
- ✦ **Personal sized, 13 x 14.5 in. footprint**
- ✦ **Three models**
 - Heat only
 - Heat & Cool
 - Heat, Cool and CO₂ control

CE

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 quickly begins to heat or cool (-HC & -HC2 models only), as the chamber temperature is constantly monitored and displayed 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 accepting 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 (non-CO₂ models only).

The new myTemp Mini CO₂ model includes a port for connecting a CO₂ gas line that is constantly monitored with the internal infrared sensor. In addition, this model includes stainless steel shelving and finer temperature control down to increments of 0.1°C.



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)
H2300-HC2*	myTemp™ CO ₂ mini digital incubator, includes 2 stainless shelves, (heat & cool with CO ₂ control)
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 in. plastic (not autoclavable)
H2300-SH	Extra shelf, 10.5 x 8 in. stainless steel (autoclavable)

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

Technical Data:

Temp. Range	H2200-H: Room Temp. +1° to 60°C H2200-HC: Room Temp. -15° to 60°C H2300-HC2: Room Temp. -10° to 55°C
Temp. Accuracy:	H2200 Models: ±0.5°C (at 37°C) H2300 Models: ±0.25 (at 37°C)
Temp. Increments:	1°C (H2200 models) 0.1°C (H2300)
Temp. Uniformity:	H2200 Models: ±1°C (at 37°C) H2300 Models: ±0.25°C (at 37°C)
Capacity:	20L or 0.8 cu. ft.
CO ₂ Range:	0 to 20% (H2300 only)
CO ₂ Sensor:	Dual Beam IR (H2300 only)
CO ₂ Accuracy:	±0.1% at 5% (H2300 only)
Humidity:	70 to 80%
Dimensions:	(w x d x h)
Interior:	10.3 x 9.3 x 12.9 in. / 26 x 23.5 x 33 cm
Exterior:	13.2 x 14.5 x 18.7 in. / 33.5 x 37 x 48 cm
Weight:	15 lbs (6.8kg)
Electrical:	100 to 240V, 50-60Hz
Warranty:	2 Years

myBlock™ Series Digital Dry Baths

GDTC



myBlock II
(dual chamber dry bath)

myBlock I (single chamber dry bath)



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.

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
BSW5MT	Block, 12 x 5.0ml snap cap centrifuge tubes
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 block model only)
BSWPCR1	Block, 1 x 96-well PCR Plate (1 block model)
BSWMT	Block, 1 x Micro Plate (2 block model only)
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.

myBLOCK™

- ✦ **Hinged cover**
Improves uniformity, conserves energy
- ✦ **Optional external temperature probe**
for control of actual sample temperature
- ✦ **Unique Quick-Flip™**
universal micro-block

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

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.



Video
Demonstration

Technical Data:

Temp. Range:	Room Temp. +5 to 105°C
Temp. Accuracy:	+/- 0.1°C
Temp. Increments:	0.1°C
Temp. Uniformity:	+/- 0.2°C
Timer:	1min. to 99 hr & 59 min.
Dimensions (WxDxH):	
Single:	7 x 10 x 5 in. / 18 x 25.5 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**
Independent time & temperature control
- ✦ **Hinged cover**
Improves uniformity, conserves energy
- ✦ **Unique Quick-Flip™**
Universal micro-block



Video
Demonstration

The unique 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, accommodates 0.2ml tubes or PCR strips.



IsoBlock shown with lid open

Ordering Information:

Item No.	Description:
BSH6000*	IsoBlock dry bath, with two independent chambers
BSWCMB	Block, Quick-Flip, 24 x 1.5/2.0ml, 14 x 0.5ml and 6 x PCR strips / 48 x 0.2ml
BSW1500	Block, 24 x 1.5ml
BSW1520	Block, 24 x 1.5/2.0ml
BSW05	Block, 24 x 0.5ml
BSW5MT	Block, 12 x 5.0ml centrifuge tubes
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
BSWPCR1	Block, 1 x 96-well PCR Plate
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:	Room Temp. +5 to 105°C
Temp. Accuracy:	+/- 0.1°C
Temp. Increments:	0.1°C
Temp. Uniformity:	+/- 0.2°C
Timer:	1min. to 99 hr & 59 min.
Dimensions (WxDxH):	6.3 x 14.5 x 5 in. 16 x 37 x 12.7 cm
Operating Temp. Range:	+4°C to +65°C
Electrical:	115V or 230V, 50-60 Hz 240W
Warranty:	2 Years

myBlock™ Heating / Cooling Mini Dry Baths



myBLOCK™ Mini

- + Compact, fits on any crowded benchtop
- + Available in heat only, or heat & cool versions
- + Exchangeable blocks for 0.2 to 50ml tubes
- + Clear cover ensures temperature uniformity
- + Link 2 consecutive temperatures (cooling model only)

CE

Technical Data:

Model:	BSH200	BSH300
Temp. Range:	RT. +5 to 100°C	RT. -25 to 100°C
Min. Programmable Temperature:	20°C	0°C
Temp. Accuracy:	± 0.5°C	± 0.5°C
Temp. Increments:	0.1°C	0.1°C
Temp. Uniformity:	+/- 0.2°C	+/- 0.2°C
Dimensions:	4 x 6 x 4.5 in. 10.2 x 15 x 11.5 cm	4.3 x 6.4 x 5.5 in. 11 x 16.2 x 14 cm
Weight:	2lbs (1kg)	2lbs (1kg)
Electrical:	100-240V 50-60 Hz, 50W	100-240V 50-60 Hz, 50W
Warranty:	2 Years	2 Years

With its compact construction, broad temperature range, and multiple block options, the myBlock Mini is the perfect tool for laboratory incubations. The simple touch pad controls and a digital display provide for "set and walk away" temperature selection and unrivaled accuracy.

While perfect for bench use, the optional 12V adapter expands the utility of the myBlock Mini to field use. At less than 4.3 inches wide, myBlock Mini is truly the first personal block incubator.



Ordering Information:

Item No.	Description:
BSH200*	myBlock Mini Digital Dry Bath
BSH300*	myBlock Mini Digital Dry Bath with cooling
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
BSH100-5MT	Block, 6 x 5ml conical (17mm diameter)**
BSH100-150	Block, 4 x 15ml**
BSH100-500	Block, 2 x 50ml**
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)
**Block height may prevent lid from closing.



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, 15 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, making this myBlock the ideal choice for the most temperature sensitive applications, including LAMP assays, immunoassays, enzyme reactions - anywhere reactant concentration is critical.

MyBath™ Digital Water Baths

CE



myBATH™ SERIES

The complete family of water baths

- + Digital accuracy and convenience
- + Seamless, stainless steel chamber
- + Quik-CAL™ user calibration function
- + Hinged lid is also removable*

The myBath series water baths are designed to guarantee superior accuracy and performance in a compact footprint. Easy to use controls allow the user to digitally select and monitor settings. Adjustable in 0.1°C increments, the temperature is shown on a large, 3-digit display. The proprietary Quik-CAL™ feature allows for simple, in-lab calibration. High efficiency insulation maintains temperature stability and uniformity within the bath, while keeping the housing cool to the touch.

All myBath models feature seamless, stainless steel chambers for easy cleaning and long life. The chambers resist rust and have no corners to collect dirt or contamination. The larger 8L and 12L units have drains for hassle-free water changes.

The 4L, 8L, and 12L models include a see-through cover that can be removed, or flipped back on a rear hinge to conserve bench space. The lid's gabled design* will divert condensation to the front and back of the bath, away from samples. Racks are available to accommodate 1.5/2.0ml, 15ml and 50 ml tubes within the 4L, 8L and 12L baths. The myBath 4L is supplied with all three racks.

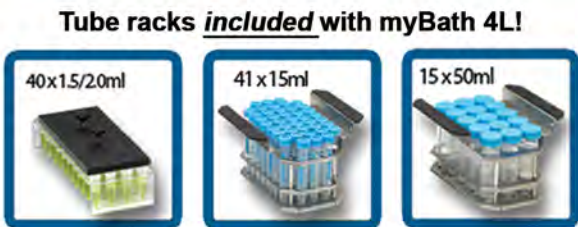
*The 2L model includes a flat, removable lid.

Ordering Information:

Item No.	Description:
B2000-2**	MyBath™ 2L Digital Water Bath
B2000-4*	MyBath™ 4L Digital Water Bath, includes tube racks for 1.5/2.0, 15 and 50ml tubes
B2000-8*	MyBath™ 8L Digital Water Bath
B2000-12*	MyBath™ 12 L Digital Water Bath

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

Accessory Tube Racks:



Cat. Number	Description	Rack Capacity	
		4 Liter	8/12 Liter
B2000-4-T5	Tube rack for 40 x 0.5ml tubes	1	2
B2000-4-T1520	Tube rack for 40 x 1.5/2.0ml tubes	1 (Included)	2
B2000-4-T150	Tube rack for 41 x 15ml tubes	1 (Included)	0
B2000-4-T500	Tube rack for 15 x 50ml tubes	1 (Included)	0
B2000-8-T150	Tube rack for 76 x 15ml tubes	0	1
B2000-8-T500	Tube rack for 30 x 50ml tubes	0	1

Technical Data:

	2 Liter	4 Liter	8 Liter	12 Liter
Temperature Range	Room Temp. +5 to 100°C			
Temp. Accuracy	±0.2°C at 37°C		±0.5°C at 37°C	
Temp. Uniformity	±0.2°C at 37°C			
Exterior (WxDxH)	6.5 x 8 x 6 in.	7.7 x 13.9 x 9 in.	17.5 x 10.5 x 12.4 in.	18 x 10.5 x 16.2 in.
Chamber (WxDxH)	5.5 x 6 x 4 in.	5.3 x 9.4 x 5.5 in.	12.8 x 10.4 x 5.9 in.	12.8 x 10.4 x 7.9 in.
Weight	4.5 lbs / 2.4 kg	15 lbs / 6.8 kg	17 lbs / 7.7 kg	17 lbs / 7.7 kg
Electrical	115 or 230V, 50-60Hz			
Warranty	2 Years			

Incu-Shaker™ Mini Shaking Incubator



60°C



INCUSHAKER™ Mini

- + Domed lid accepts flasks up to 1L (NEW!)
- + 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. This 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



Video Demonstration



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-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-CMB (Patent Pending)	NEW! Adjustable flask clamp for MAGIC clamp platform, accepts 125ml (max. 12), 250ml (max. 8) or 500ml (max. 5)
H1000-MR-1000	Flask clamp for MAGIC clamp platform, 1000ml (max. 2)
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)
H1000-MR-TSR	Angled tube rack holder, adjustable tilt (max. 1)

Technical Data:

Temperature Range:	Room Temp. +5 to 70°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 16.2 x 13 in. / 28 x 41 x 33 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

*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.



MAGIC CLAMP™



Video Demonstration



The **INSTANT** flask attachment system

Incu-Shaker™ 10L is a heavy-duty performer, designed for high capacity loads and continuous use. Its outstanding temperature accuracy and uniformity are supported by proprietary heat distribution technology that ensures precisely maintained temperatures 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 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 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-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-CMB (PATENT PENDING)	NEW! Adjustable flask clamp for MAGic clamp platform, accepts 125ml (max. 36), 250ml (max. 25) or 500ml (max. 16)
H1000-MR-3000	Flask clamp for MAGic clamp platform, 3L (max. 4)
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)
H1000-MR-TSR	Angled tube rack holder, adjustable tilt (max. 1)

Technical Data:

Temperature Range:	
H1010:	Room Temp. +5 to 60°C
H1012:	Room Temp. -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

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

60°C

SB-12L Shaking Water Bath



CE

- + **Orbital shaking motion**
- + **Included spring platform accepts tubes, bottles and flasks**
- + **Compact design, conserves bench space**
- + **Digital control and display of time, temperature, and speed**

This compact shaking water bath utilizes the well proven, beltless motor drive system from the Benchmark Orbi-Shaker™ Series, with the addition of precision temperature control up to 80°C.

The seamless, stainless steel chamber has a 12 liter capacity. The unit is supplied complete with a universal spring platform for securing 15 & 50ml test tubes, as well as Erlenmeyer flasks and media bottles up to 1 liter. A hinged and removable lid is also included to reduce energy waste, prevent splashing and divert condensation away from samples.

Easy to use controls allow the user to digitally select and monitor time, temperature and shaking speed, while a constant feedback system ensures accuracy over each parameter.

Optional test tube racks are available for microtubes, and custom-designed racks can also be made available by request.

Capacity Chart

	Bottles/Tubes	Flasks
0.5ml	40	N/A
1.5/2.0ml	40	N/A
15ml	63	N/A
50ml	15/30	12
125ml	8	8
250ml	4	3
500ml*	2	2
1000ml*	2	1

*Height of vessel may limit ability to close included lid.

Technical Data:

Temperature Range:	Room Temp. +5° to 80°C
Temperature Increments:	0.1°C
Temperature Uniformity:	±0.2°C (at 37°C)
Temperature Accuracy:	±0.3°C (at 37°C)
Shaking Speed Range:	30 to 200rpm
Speed Increments:	1rpm
Shaking Orbit:	25mm (1")
Platform Dimensions:	Universal spring platform
Exterior Dimensions:	12.2 x 13.25 x 12 in. / 32 x 34 x 30 cm
Capacity:	12 Liter
Timer:	1 min. to 48 hours / continuous
Weight:	31 lbs. (14 kg)
Electrical:	115 or 230V, 50-60Hz, 300W
Warranty:	2 Years



SB-12L with 15mL conical tubes



SB-12L with 50mL conical tubes

Ordering Information:

Item No.	Description:
SB0012	SB-12L Shaking Water Bath with universal spring platform for tubes, bottles and flasks
SB0012-T1520	Optional rack for 1.5/2.0ml microtubes
SB0012-T5	Optional rack for 0.5ml microtubes

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



MultiTherm™ Heating/Cooling Vortexer

MULTI-THERM™ COOL - HEAT - SHAKE



CE

- + Temperature control from 0° to 100°C
- + Exchangeable blocks, for tube sizes 0.2ml 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):	Room Temp. -20° to 100°C
Temp. Range (H):	Room Temp. +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)
H5000-5MT	Block, 12 x 5ml snap cap centrifuge tubes (conical)
H5000-DWMP	Block, 1 x deep well microplate (max. height, 54mm)
H5000-CU	Block, custom drilled, for tubes/vials up to 40mm tall
H5000-WB	Block, for liquids, beads, etc. (chamber: 4 x 2.6 x 1")

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

INCUB-MIXER™ MP HEATED MICROPLATE VORTEXER



CE

- + Heated lid prevents condensation
- + Accepts a variety of microplates
- + Available in two-plate or four-plate format
- + Temperature control up to 70°C

Vortex mixing motion, up to 1200rpm

Ordering Information:

H6002*	Incu-Mixer MP2, 2 Position incubated plate vortexer
H6004*	Incu-Mixer MP4, 4 Position incubated plate vortexer
H6000-MP	Optional tube adapter, 12x1.5/2.0ml & 8x0.5ml (H6004 only)

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

TC 9639 Thermal Cycler



- + Intuitive touchscreen control
- + Program Wizard for quick and easy protocol entry
- + Exceptionally fast cycling
- + Fully adjustable heated lid
- + Multifformat block
- accepts 0.2 ml tubes, 0.5 ml tubes and PCR plates

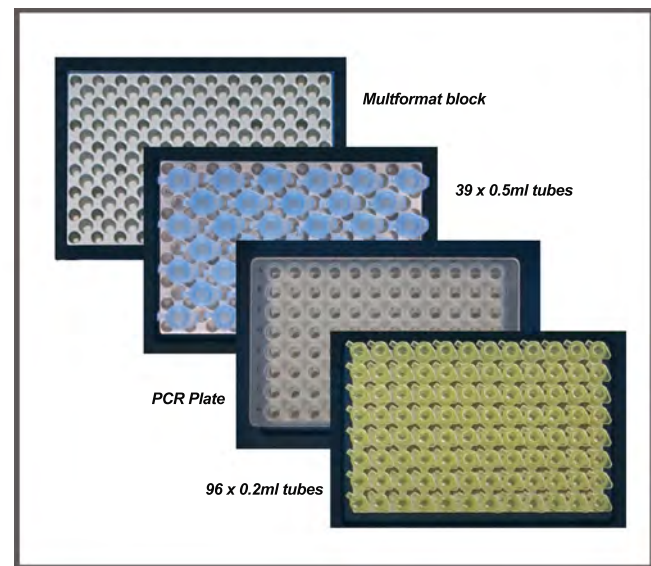
Fast, reliable cycling and ease of use make the TC 9639 Thermal Cycler an ideal choice for medium to high throughput laboratories.

A large, full color touchscreen serves as the operations center where all functions are easily accessed. Designed through extensive user feedback, the program wizard guides users through quick and easy entry of protocols. While the unit has a large onboard memory, a flash drive port allows for unlimited storage of programs.

Exceptionally fast heating and cooling of the block are tightly controlled to maintain precision and accuracy. The fully adjustable heated lid prevents condensation and evaporation of samples.

The unique multifformat block eliminates the need for interchangeable blocks - it accepts 0.2ml tubes and PCR plates as well as 0.5ml tubes. An In-situ adapter expands the use of the cycler to slides. A 384 well version is also available.

Unique multi-format block



Technical Data:

Capacity:	
Multifformat Block:	96 x 0.2ml tubes/strip tubes or 39 x 0.5ml tubes or 1 nonskirted 96 well plate
384 Well Block:	1 x 384 well plate
In-situ Adapter:	4 slides (fits multifformat block)
Temp. Control Range:	0° to 100°C
Temperature Control:	Simulated sample or block
Accuracy/Uniformity:	±0.2°C/±0.2°C
Ramp Rate:	4°C/second (maximum)
Lid Temperature:	30° to 112°C, user adjustable
Program Memory:	Unlimited, with a flash drive
Increments/decrements:	Yes, time and temperature
Power Failure Restart:	Yes
Dimensions:	10.2 x 14.2 x 9.9 in. 26 x 36 x 25 cm
Weight:	16 lbs. (7.3kg)
Electrical:	115V or 230V, 50-60 Hz
Warranty:	2 Years

Ordering Information:

Item No.	Description:
T5000-96*	TC 9639 Thermal Cycler, multifformat block (Accepts one plate, 96 x 0.2 or 39 x 0.5)
T5000-384*	TC 9639 Thermal Cycler, 384 well block
T5000-A-IS	In-situ adapter for 4 slides, fits T5000-96

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

Also Available from Benchmark

Pg.46



CoolCube™ Microtube/PCR Plate Cooler

Pg.46



hybex™ Media Storage Bottles

Pg.47



Benchmark™ Agarose & Agarose Tablets

Pg.48



Benchmark™ Label Printer

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

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

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

LABeler™ Lab Printer



- + Variety of label tapes for all common tube sizes
- + Prints a variety of 3D barcodes
- + Lightweight, for one handed operation
- + Built in cutter eliminates the need for scissors
- + "Ultra-Low" tape for liquid nitrogen storage



Perfect for labelling microtubes and cryovials



Eliminates the smearing/bleeding associated with markers & pens after autoclaving

Proper identification of scientific samples is often a key objective of the research laboratory. The process of writing on sample tubes/containers can be messy and unreliable. It can also be difficult to find the time to access a computer and design a layout for expensive ink jet labels. The new LABeler™ Lab Printer provides the convenience of a lab pen with the benefits of a large desktop printer. Simply type in the desired copy using the 50+ button key pad and press the print key... within seconds your label can be cut by pressing the cut lever and is the ready for application.



With over 15 available sizes, colors & material combinations, the LABeler is ideal for label identification of any laboratory vessel for nearly any laboratory application. Standard label tapes can be autoclaved, boiled or even frozen to temperatures as low as -50°C. Special Ultra-Low label tapes are also available for storage in -80°C environments or for liquid nitrogen applications.



• Replaceable tape cassettes (26' length)



• Built in cutter, eliminates the need for scissors



• available with 9V power supply (also runs off 6 AA batteries)

Ordering Information:

Item No.	Description:
L9010*	LABeler Lab Printer with 115V power supply
L9010-A*	LABeler Lab Printer without power supply (battery use)
<i>Standard Lab Tape (withstands temperatures of -50°C to 130°C)</i>	
L9010-6WK	26' cassette of 6mm lab tape, white with black print
L9010-6CK	26' cassette of 6mm lab tape, clear with black print
L9010-12WK	26' cassette of 12mm lab tape, white with black print
L9010-12CK	26' cassette of 12mm lab tape, clear with black print
L9010-12YK	26' cassette of 12mm lab tape, yellow with black print
L9010-12RW	26' cassette of 12mm lab tape, red with white print
L9010-12BW	26' cassette of 12mm lab tape, blue with white print
L9010-12GW	26' cassette of 12mm lab tape, green with white print
L9010-24WK	26' cassette of 24mm lab tape, white with black print
L9010-24CK130	26' cassette of 24mm lab tape, clear with black print
<i>Ultra-Low Temperature Tape, liquid nitrogen applications & temp. as low as -100°C</i>	
L9010-12ULT	20' cassette of 12mm ULT tape, white with black print
L9010-24ULT	20' cassette of 24mm ULT tape, white with black print

Precision Instruments

Pg. 50 - 52



Accuris™ **Balances**

Pg. 53



NextPette™ **Pipettes**

Pg. 54



Aspire™ **Laboratory Aspirator**

Pg. 55



myGel™ **Electrophoresis System**

Pg. 56



myVolt™ **Power Supplies**

Pg. 57



SmartDoc™ **Imaging Systems**



- + Super compact, less than 3" wide
- + Easy to read, backlit LCD
- + Calibration function
- + Includes two AAA batteries
- + Snap on, protective cover

Accuris Mini Balances are extraordinarily compact, easy to use, and convenient for a variety of laboratory weighing applications. With a footprint of only 2.6 x 3.9 inches, these Mini Balances offer exceptional accuracy and linearity through their full weighing ranges.

Available with either a 100g or 500g capacity, these digital balances feature an easy to read, backlit, liquid crystal display. Buttons for ON/OFF, MODE & TARE are located on the front for easy access. The software includes a calibration function for in-lab calibration with a 100g or 500g calibration weight.

Accuris Mini Balances are powered by 2 AAA batteries (included). After one minute sitting idle, the power automatically shuts off to conserve battery life. Ideal for lab or field use, each balance includes a snap on, protective cover with instructions conveniently printed on the underside.



Easy, in-lab calibration



Protective cover, included

Ordering Information:

Item No.	Description:
W4000-100	Accuris™ Mini Balance, 100g capacity (0.01g readability)
W4000-500	Accuris Mini Balance, 500g capacity (0.1g readability)

Model	Mini 100g	Mini 500g
Max capacity	100 grams	500 grams
Readability	0.01 g	0.1 g
Calibration	External	
Pan size	2.1 x 2.25 in / 5.3 x 5.7 cm	
Weighing units	g, ct, dwt, gn	
Display	backlit LCD	
Power	2 AAA batteries	
Exterior dims.	2.6 x 3.9 x 0.75 in / 6.6 x 9.9 x 1.9 cm	

Accuris™ Calibration Weights



- + Highly polished, stainless steel
- + Protective screw cap cases
- + 23 piece calibration set (covers a range of 1mg to 200g)

Ordering Information:

W1000-100	Accuris™ Calibration Weight, 100g (F1 grade)
W1000-200	Accuris™ Calibration Weight, 200g (F1 grade)
W1000-500	Accuris™ Calibration Weight, 500g (F1 grade)
W1000-TF	Tweezers, for handling calibration weights
W1100-200	Calibration set, 23 pieces from 1mg to 200g with tweezers, dust brush, cleaning cloth & protective case

Accuris™ calibration weights are ideal for calibration of your Accuris (or any brand) lab balance. Three single weights are available, 100g, 200g, and 500g, as well as a recently introduced complete weight set. All weights meet class F1 tolerance per OIML (International Organization of Legal Metrology) Recommendation R111 and are made of highly polished, non-magnetic stainless steel.

The W1000 series of individual weights come in protective plastic cases with a screw top cover. The W1100-200. Weight Set includes 23 weights ranging from 1mg to 200g and is packaged in a protective carrying case with a set of tweezers, a dust brush and cleaning cloth.



Compact



Precision

**Precise & reliable,
variable capacitance technology**

- + Large, user-friendly interface
- + Easy, in-lab calibration
- + RS232 port for data output
- + Multiple program options
(standard weighing, count mode, percent, etc.)



Accuris *Compact* and *Precision* balances quickly and accurately display sample measurements on a large, backlit LCD control panel. Utilizing a highly precise, gold plated ceramic capacitance sensor, these balances can provide reliable measurements to 0.001 grams (*Precision* models). All models feature multiple program options for standard weighing, count (or pieces) mode, as well as percent deviation. In addition, each balance incorporates firmware for easy and reliable, in-lab calibration.

The economical, *Compact* balances are ideal for a wide range of **general weighing** applications. They are available with a readability of 0.01g or 0.1g. Six models cover a range of up to 10,000 grams. With enhanced shock resistance and overload protection, the *Compact* series is ideal for general purpose weighing at medium precision, in varying environments.

The *Precision* series balances are designed for more critical laboratory applications. Engineered for true **research grade** weighing capabilities, these balances offer higher levels of precision and readability (0.01g and 0.001g). They are useful for any laboratory application that does not require a dedicated analytical balance with sub-milligram readability. Advanced software ensures error-free weighing for various applications, including count weighing, percent deviation and inspection mode.

COMPACT BALANCES						
Item No.*	W3300-120	W3300-300	W3300-500	W3300-1200	W3300-5K	W3300-10K
Capacity	120 grams	300 grams	500 grams	1200 grams	5000 grams	10000 grams
Readability	0.01 grams	0.01 grams	0.01 grams	0.1 grams	0.1 grams	0.1 grams
Pan Size (round)	11.5cm / 4.5 in.		16cm / 6.3 in.		18cm / 7 in.	18cm / 7 in.
Repeatability/Linearity	0.02 / 0.02		0.2 / 0.2			
Draft Shield	Yes, plastic ring			No		
Weighing Units	g, oz, ct, pieces, %					
Calibration	External					
Exterior Dims. (W x D x H)	18.8 x 28 x 8 cm 7.5 x 11 x 3.1 in.					

PRECISION BALANCES						
Item No.*	W3200-120	W3200-320	W3200-500	W3200-1200	W3200-3200	W3200-5K
Capacity	120 grams	320 grams	500 grams	1200 grams	3200 grams	5000 grams
Readability	0.001 grams	0.001 grams	0.001 grams	0.01 grams	0.01 grams	0.01 grams
Pan Size (round)	11.5cm / 4.5 in.			16cm / 6.3 in.		
Repeatability/Linearity	0.002 / 0.002			0.02 / 0.02		
Draft Shield	Yes, 3-door glass enclosure				No	
Weighing Units	g, oz, ct, pieces, %					
Calibration	External					
Exterior Dims. (W x D x H)	20.5 x 35 x 31 cm 8 x 13.75 x 12.25 in.			20.5 x 35 x 8 cm 8 x 13.75 x 3.1 in.		

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



CE

- + **Readable to 0.0001g (0.1 mg)**
- + **Available with Quick-Cal™ internal calibration option**
- + **RS232 port for data output**
- + **Multiple program options (standard weighing, count mode & percent)**



Available with Quick-Cal™ auto calibration



Extended base, limits vibration & improves stability

Accuris Analytical Balances provide accuracy and precision for the most demanding research applications. Two capacity options are available, each incorporating a highly precise, electromagnetic force restoration sensor to deliver unsurpassed accuracy & readability to 0.0001g (0.1mg)

All models feature advanced adjustable feet and a leveling bubble indicator. A tare key is conveniently located on either side of the control panel, providing convenience and comfortable use for both right and left handed users. Although all models incorporate in-lab calibration firmware, they are also available with a unique *Quick-Cal™* function (Items: W3100A-120 & W3100A-210) that provides fast, reliable internal calibration with the push of a button. While standard models (Items W3100-120 & W3100-210) include a 100g calibration weight for external user-calibration.

All Accuris Analytical Balances feature a glass enclosure (draft shield) with 3 sliding doors, "right, left, and top" to isolate the weighing area from the ambient environment.

ANALYTICAL BALANCES				
Item No.*	W3100-120	W3100-210	W3100A-120	W3100A-210
Calibration	External (100g cal. weight included)		Internal Quick-Cal™	
Capacity	120 grams	210 grams	120 grams	210 grams
Readability	0.0001 grams		0.0001 grams	
Repeatability/Linearity	0.0002 / 0.0002		0.0002 / 0.0002	
Pan Size (Round)	Stainless Steel: 3.5 cm Ø (9cm)		Stainless Steel: 3.5 cm Ø (9cm)	
Weighing Units	g, oz, lb, ct, pieces, %		g, oz, lb, ct, pieces, %	
Draft Shield	Yes, glass		Yes, glass	
Exterior Dims. (W x D x H)	32 x 47 x 28 cm 12.5 x 18.5 x 11 in.		32 x 47 x 28 cm 12.5 x 18.5 x 11 in.	

Accuris Calibration Weights available on page 50.

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



Glass draft shield opens from the left, right, and top for easy access to the weighing pan



Fully Autoclavable

NEXTPETTE™

- + **Market leading accuracy and precision**
- + **True one-handed volume adjustment**
(Easy-to-turn thumb wheel)
- + **Volume lock**
- + **Easily visible volume display**
- + **Comfortable plunger button**
(Adjustable to the user's preference)



Efficient thumb wheel for quick, one-handed volume adjustment



Large, 4 digit volume display faces the user

With over 100 years of liquid handling instrument experience, the Accuris engineering and development team set out to design and develop an advanced, **next generation** pipette. After consulting with more than a hundred researchers and technicians about their evolving requirements, Accuris engineers set their sites on creating an ultra-lightweight, and ergonomic pipettor without any sacrifice in terms of durability, accuracy and precision.

The NextPette incorporates many significant features and advantages truly appreciated by today's research laboratories. A unique volume adjustment system reduces the time and inconvenience associated with volume selection. The uniquely positioned volume dial is located above the pipette handle, allowing for easy one-handed adjustment with the user's thumb. In addition, the volume display is located on the side of the pipettor that faces the user. Unlike traditional pipettors, the NextPette does not require a second hand to rotate the pipettor 180° to observe the display.

The NextPette also features an innovative, elliptical plunger button that can be rotated to match the comfort preference of the user. This button is freely adjustable to rotate continuously between a wide more traditional feeling button or to a more narrow (thumb shaped) contour preferred by the majority of researchers.

NextPette's materials and components were carefully selected to minimize weight and ensure durability and a long service life. Internal components include precision plungers made of stainless steel (2µl to 1000µl models) and PTFE seals. The pipettors have also been designed with service in mind. They are easy to disassemble, and seals are easy to replace. Recalibration can be done in the lab - no tools are required. The instruction manual includes full details on how to properly check pipetting accuracy and recalibrate if necessary.

The entire pipettor is autoclavable at 121°C and resistant to UV exposure. All pipettes are factory calibrated in accordance with ISO 8655 standards, and include a factory calibration certificate.

Ordering Information & Technical Data:

Item No.	Description:	Inaccuracy:	Imprecision:	Tip Size:
P7700-1	NextPette™ variable volume pipette 0.1 to 1.0 µl	± 20 to 2%	± 12 to 1.2%	10 µl
P7700-10	NextPette™ variable volume pipette 0.5 to 10 µl	± 3.8 to 0.5%	± 4 to 0.5%	10 µl
P7700-20	NextPette™ variable volume pipette 2 to 20 µl	± 3 to 0.8%	± 3 to 0.8%	200 µl
P7700-100	NextPette™ variable volume pipette 10 to 100 µl	± 1.5 to 0.8%	± 1.5 to 0.8%	200 µl
P7700-200	NextPette™ variable volume pipette 20 to 200 µl	± 1.2 to 0.6%	± 1.0 to 0.6%	200 µl
P7700-1000	NextPette™ variable volume pipette 100 to 1000 µl	± 1.5 to 0.6%	± 1.0 to 0.6%	1000 µl
P7700-5M	NextPette™ variable volume pipette 1ml to 5ml	± 0.6 to 0.5%	± 0.6 to 0.5%	5 ml
P7700-10M	NextPette™ variable volume pipette 1ml to 10ml	± 2.5 to 0.5%	± 2.0 to 0.5%	10 ml
P7700-CAR	NextPette™ carousel stand holds 6 NextPette Pipettes			



ASPIRE LABORATORY ASPIRATOR

- + **Compact design**
- + **Built-in vacuum pump**
- + **Adjustable vacuum pressure**
- + **Vacuum gauge**
- + **Safe and precise aspiration**

Comes complete with:

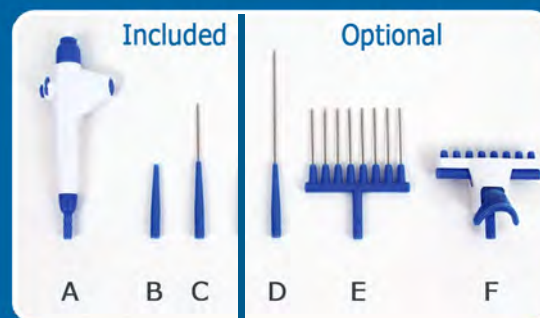
- Base with internal vacuum pump
- 2 Liter, polycarbonate collection bottle
- Antibacterial / hydrophobic filter
- Silicone tubing
- Handheld vacuum controller (A)
- Adapter for 200µl pipette tips (B)
- Adapter, fine stainless steel, 40mm (C)

The Accuris ASPIRE Laboratory Aspirator incorporates a quiet, maintenance-free pump inside a sturdy, yet compact base. The vacuum pressure is fully adjustable, with a conveniently located pressure gauge that displays the vacuum level at all times.

An ergonomic, hand held vacuum controller is included, and is comfortable in the hand during prolonged use. Using the index finger, the user can easily press the button to apply the vacuum. The controller accepts Pasteur pipettes, serological pipettes, and also comes with two single channel adapters. One adapter is designed to accommodate 200µl pipette tips. The other has a fine, stainless steel capillary for fine control when aspirating from narrow vessels.

The collection bottle incorporates a reliable overflow protection valve that closes off the tube to the vacuum in the event of a full bottle. In addition, the replaceable in-line filter protects the vacuum pump from contaminants and any moisture that comes through the bottle. Graduations on the collection bottle indicate the amount of fluid collected and when it's ready to be emptied.

The ASPIRE is an ideal choice for a wide range of laboratory aspirating applications, including removal of media from tissue culture vessels or plates, and supernatants.



Technical Data:

Max. Aspiration Rate:	14ml / sec.
Max. Flow Rate:	15L / min.
Vacuum Range:	-30mbar to -750mbar
Noise Level:	59.6 db
Vacuum Pump:	Oil free, piston pump
Dimensions:	9.5 x 7.9 x 13.5 in.
(W x D x H)	24 x 20 x 34 cm
Weight:	4.8lbs (2.2kg)
Electrical:	115V, 60Hz or 230V, 50Hz
Warranty:	2 years

Ordering Information:

Item No.	Description:
V0020*	ASPIRE™ Laboratory Aspirator, 115V Includes base with internal vacuum pump, 2L polycarbonate bottle with lid, silicone tubing, handheld vacuum controller and single channel adapters
V1002-1SL	Optional single channel adapter, extra long (80mm) stainless steel (D)
V1002-8	Optional eight channel adapter, for use with 200µl pipette tips (F)
V1002-58	Optional eight channel adapter, fine tip stainless steel (E)
V1002	Handheld vacuum controller with single channel adapters (A, B, C / included)
V0020-F1	Hydrophobic filter (included)
V0020-QD	Optional quick disconnect kit, includes 2 male/female attachments & silicone tubing
V0020-BOT	Graduated, PC collection bottle with lid (included)
V0020-TB	Extra tubing with connector, 1 meter

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



MYGEL™ mini

- + **Complete System**
(Includes gel tank, power supply & casting accessories)
- + **Quick and Easy Gel Casting**
(No spacers or clamps required)
- + **Compact Design, 7.5 x 5 in. footprint**

The Accuris myGel Mini Electrophoresis System includes all the equipment you need to get up and running - gel tank, power supply and 2 complete casting sets. Ideal for personal use, small laboratories, or the classroom, this gel box/power supply combination is compact and easy to use.

The myGel Mini power supply attaches directly to the gel box for a secure connection every time. Selectable parameters include 3 preset voltages - 35, 50 and 100V - and a 99 minute timer. All are set using the membrane keypad. The safety lid is vented to help to dissipate heat generated during electrophoresis, and features a viewing area above the gel. Current will only run through the system when the lid is properly in place on top of the gel box. Trays and casting stands for both 10.5 x 6 cm and 5 x 6 cm gels are included with the myGel Mini system, as are double sided combs. The smaller tooth combs are compatible with multichannel pipettes. Casting is quick and easy - just place the tray in the casting stand and pour. The gel trays feature a dark contrast strip to help visualize wells while loading and lines that fluoresce under UV and blue light to track the progress of the run.



Ordering Information:

Item No.	Description:
E1101	MyGel Mini Electrophoresis System, complete with E1101-CS1 and E1101-CS2, 115V
E1101-E	MyGel Mini Electrophoresis System, complete with E1101-CS1 and E1101-CS2, 230V
<u>myGel Mini includes all of the below casting accessories:</u>	
E1101-CS1	Extra casting set, for 10.5 x 6cm gels, includes two trays and two combs (22*/12 teeth)
E1101-COMB1	Extra double sided combs, 22/12 teeth, for E1101-CS1 casting set, pk 2 (multi-channel compatible)
E1101-CS2	Extra casting set, for 5 x 6cm gels, includes four trays and two combs (18*/10 teeth)
E1101-COMB2	Extra double sided combs, 18*/10 teeth, for E1101-CS2 casting set, pk 2 (multi-channel compatible)

Technical Data:

Output voltage:	35V, 50V or 100V
Timer:	0-99 minute or continuous
Safety:	Magnetic and mechanical lid interlock
Max. buffer volume:	230 ml
Gel capacity:	One 10.5 x 6cm or two 5 x 6cm
Dimensions: (W x D x H)	7.5 x 5.1 x 2.1 in. 21.9 x 13 x 5.5 cm
Weight:	1 lbs (.45kg)
Electrical:	115V, 60Hz or 230V, 50Hz
Warranty:	2 years



- + Compact and simple
- + Choose constant 100V or 200V output
- + Two pairs of output terminals



Ordering Information:

Item No.	Description:
E2100*	myVolt™ Mini Power Supply, 100V / 200V

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

Technical Data:

Voltage Output:	100V or 200V constant
Current Output:	Max. 200mA
Max Wattage:	40W
Output Terminals:	2 pairs (wired in parallel)
Dimensions:	6.25 x 4.5 x 2.25in. / 16 x 11.5 x 5.7 cm
Weight:	0.9lbs (0.4kg)
Electrical:	100 - 240V, 50 - 60Hz
Warranty:	2 years

myVolt™ Touch Power Supply



- + Touchscreen control
- + Dual orientation, auto-rotating display (fits anywhere in a crowded lab)
- + Intuitive programming
- + Control voltage or amperage



Dual Orientation, Auto-Rotating Display

The Accuris myVolt Touch is a dependable electrophoresis power supply that includes all of the performance and specifications needed for efficient separation of nucleic acids and proteins. Perfect for agarose gels and protein separations, the myVolt Touch incorporates some very unique user-friendly features:

Touch-screen Control Panel: Setting up an electrophoresis run with the myVolt Touch couldn't be easier... simply touch the parameter that you want to change and then touch "Start" to begin the run.

Technical Data:

Output Settings:	Constant voltage or constant current
Voltage Output:	10 - 300V (5V increments)
Current Output:	5 - 400mA (5mA increments)
Max Wattage:	80W
Timer:	1 min. to 99 hours 59 min.
Output Terminals:	4 pairs (wired in parallel)
Safety:	No load, load change, overload detection
Display:	2 x 2in. touchscreen LCD
Dimensions: (W x D x H)	8.5 x 6.3 x 4.0in. / 21.5 x 15.5 x 9.75 cm
Weight:	3.5lbs (1.6kg)
Electrical:	115V, 60Hz or 230V, 50Hz
Warranty:	2 years

Dual Orientation, Auto-Rotating Display: The myVolt Touch packs plenty of power and features into a compact housing. But for those crowded lab benches, we've taken our design a step further. The myVolt can be oriented horizontally or vertically to fit the space available either on the lab bench or a shelf. When the power supply is tilted up vertically or back down horizontally, the display automatically rotates. Folding feet can be extended when the power supply is horizontal for convenient access and viewing of the touch screen. When set vertically, the touchscreen is also tilted up toward the user.

Ordering Information:

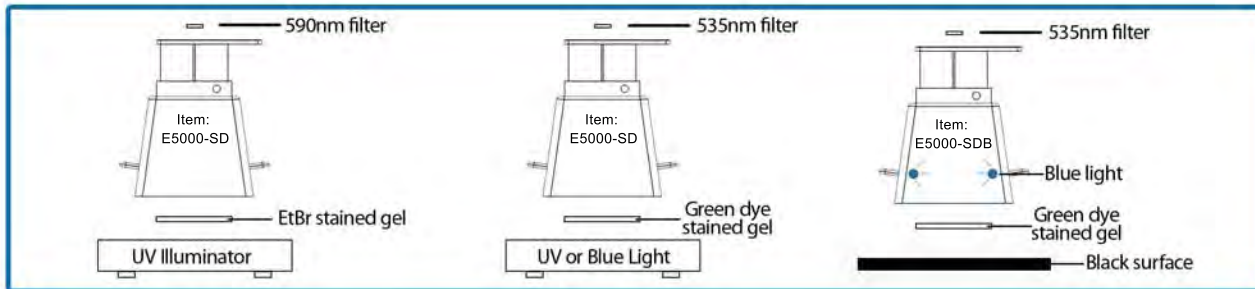
Item No.	Description:
E2300*	myVolt™ Touch Power Supply, 1 to 300V max, 400mA

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



SMARTDOC™

- + Works with smart phones & tablets (iPhone™, iPad™ & Droid™)
- + Instantly share images (by text, email or cloud sharing)
- + Adjustable focal distance (to optimize focus and image size)
- + For use with UV or blue light transilluminators
- + Two filter options for common stain and lighting combinations



The SmartDoc system is ideal for quickly obtaining quality images of your gels for your records or analysis. Most gel imaging systems cost thousands of dollars as they include a high resolution camera, color display, complicated control panel, computer and more. The SmartDoc uses the camera and computer that we already have...our smart phone.

To use the SmartDoc, simply place the enclosure over your gel and transilluminator. Lay your smart phone or tablet onto the non-slip, rubber pad, and align the camera lens over the filter. Raising and lowering the platform allows optimization of focus and image size. Filters are available for compatibility with multiple light sources and dyes.

The Blue light model includes high intensity blue LEDs to excite green dyes. This eliminates the need for hazardous and DNA-damaging UV light.

Images can be previewed on the device's display before capturing the picture. Images are easily shared, printed or transferred via text message, email or cloud sharing apps. Gel analysis software, such as the freeware found at www.gelanalyzer.com, can be used to analyze the image.

A UV blocking mat is available for use with larger transilluminators (with a viewing area larger than 20 x 20 cm).

Ordering Information:

Item No.	Description:
E5000-SD	SmartDoc Gel Imaging System
E5000-SDB*	SmartDoc Gel Imaging System with blue light illumination
E5000-MAT	UV Blocking Mat,
E5000-535	535nm Narrow Band Pass Filter Cassette for Smart Doc
E5000-590	590nm Narrow Band Pass Filter Cassette for Smart Doc

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



Blue light model incorporates blue LED's for use with green dyes such as SYBR® Green

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