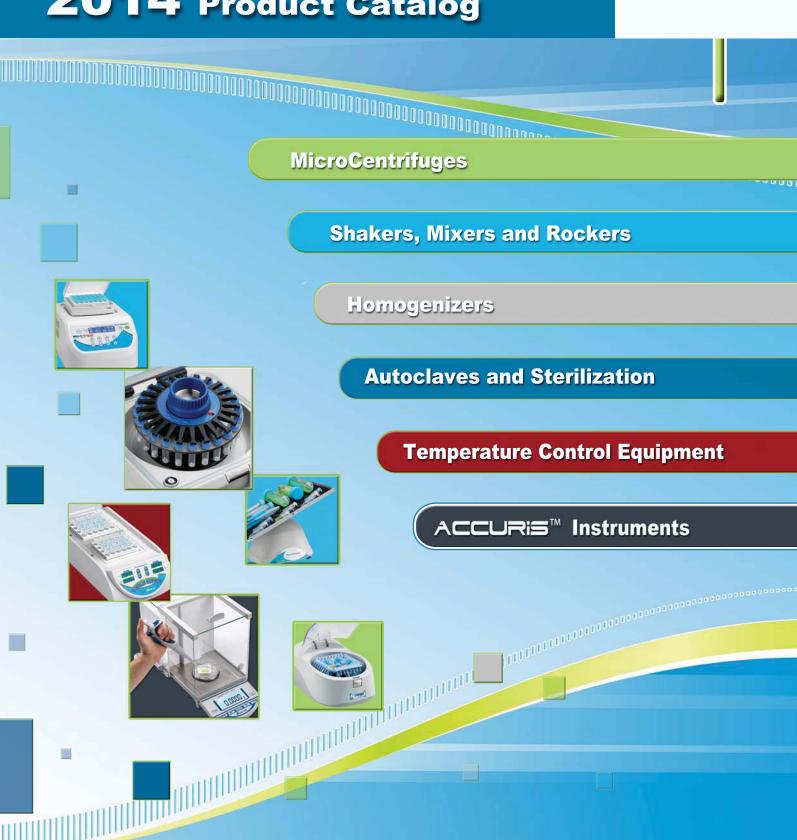


2014 Product Catalog





Benchmark Scientific, Inc. is pleased to present our 2014 research products catalog. Since our inception, we have been providing research laboratories with innovative, cost effective products and solutions designed to improve laboratory efficiency, safety and results.

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

Microcentrifuges Pg.1

Eight Position Mini Centrifuge Twelve Position Mini Centrifuge PCR Strip (12 strip) Mini Centrifuge

5ml Tube Mini Centrifuge Plate Centrifuge

Shakers, Mixers & Rockers ... Pg. 6

Vortex Mixers
Tube & Bottle Rollers
Two Dimensional Rockers

Three Dimensional Rockers Orbital Shakers

Hand-Held Homogenizer (Rotor Stator Type) Bead Beating Homogenizers

Autoclaves & Sterilization Pg. 25

MicroSterilizers / Cinerators Bench Top Autoclaves

Temperature Control Equipment...... Pg. 28

Hotplates and Stirrers Incubators Baths (Heat Blocks) Water Baths Shaking Incubators Thermal Cyclers

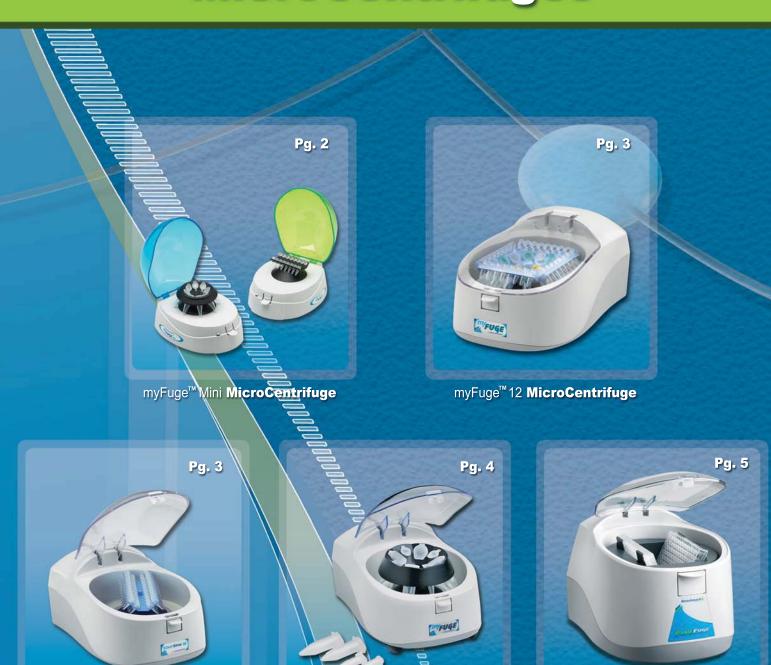
Also Available from Benchmark......pg.41

Microtube & PCR Plate Coolers Agarose LE Powder & Agarose Tablets Media Storage Bottles (hybex™ glassware)

Accuris Instruments

Basic and Precision Balances Aspiration Systems Analytical Balances Precision Pipettes

MicroCentrifuges



myFuge™ 5 MicroCentrifuge

StripSpin™ 12 MicroCentrifuge

PlateFuge™ MicroCentrifuge







- → 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: 4.5 x 5.9 x 4.5 in. (Wx D x H) 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.



myFuge™ 12 MicroCentrifuge





- Twice the capacity of most mini centrifuges
- Near silent operation
- Starts & stops with closing/opening of the lid

CE

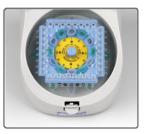
Unlike traditional mini centrifuges, the new MyFuge™ 12 eliminates the need to change rotors when switching between microtubes and PCR strips. The included, unique *COMBI*-Rotor™ is all that is required for running 12 microtubes and/or 4 (eight position) PCR strips.

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 flexibiilty.

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).



Unique COMBI-Rotor



Compact, low profile design

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: (WxDxH) 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

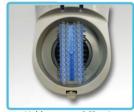
StripSpin[™] 12 **MicroCentrifuge**

For labs using 12 position PCR strips



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.



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

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







- ightharpoonup For quick spin downs of 5ml centrifuge tubes
- $oldsymbol{+}$ Includes adapters for 5ml blood tubes
- Starts and stops with closing/opening of the lid
- $\stackrel{ extsf{+}}{ extsf{-}}$ Conserves valuable bench space

The MyFuge™ 5 microcentrifuge includes a four position rotor for compatibilty 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 (snap cap) 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, and a PCR rotor is also available for use with eight position PCR strips.

Technical Data:

Speed: 5,500 rpm / 2,000 xg

Capacity: 4 x 5ml tubes & 4 x 1.5/2.0ml

Dimensions: 5.5 x 7.9 x 5.5 in. (Wx D x H) 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
C1008-ROT2	Optional rotor, 2 x PCR strips (8 position)
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).



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 it can also be effortlessly opened (or closed) with one hand.

Ordering Information:		
Item No.	Description:	
C1005-T5	Centrifuge Tube, 5ml, 200 per. pk. (2 bags of 100)	
C1005-T5-S	Centrifuge Tube, 5ml, 200 per. pk. (10 bags of 20)	
C1005-T5-R	Work Station Rack for 30 x 5ml tubes	



PlateFuge[™] MicroPlate Centrifuge





- Quickly spins down droplets in PCR plates
- Unique rotor design prevents sample spillage (Patent Pending)
- Less than half the size of traditional centrifuges

CE

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.

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/pk.
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).



Before & after centrifugation (angled position)



During centrifugation (horizontal position)

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: 9.2 x 10.2 x 7.75 in.
(WxDxH) 23 x 26 x 19.7 cm
Weight: 9lbs./4.1 kg

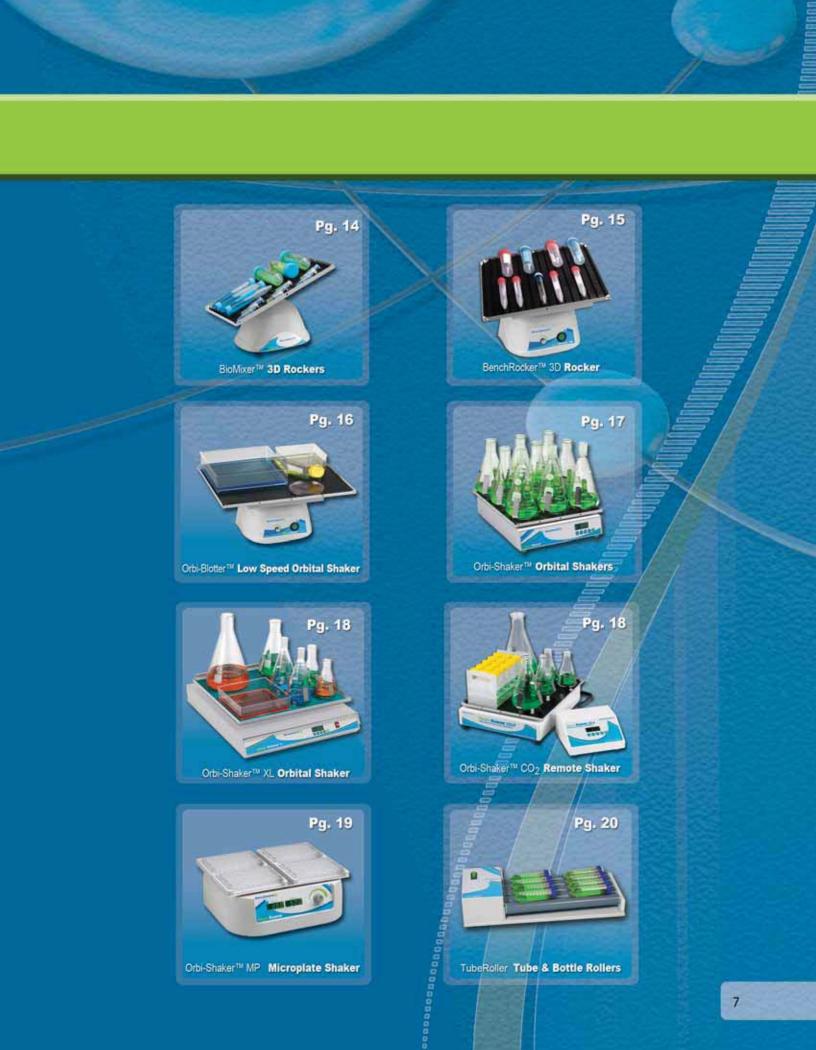
Electrical: 115 or 230V, 50-60 Hz, 250W

Warranty: 2 Years

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

Shakers, Mixers and Rockers





Mortexer™ & BenchMixer™ Vortex Mixers





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







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

Available Accessories:











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

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

Technical Data:

Speed Range: 200 to 3200 rpm
Operating Modes: Touch or continuous
Orbit: 3mm

Operating Temp. Range: +4°C to +65°C

Dimensions: 5 x 6.3 x 6.7 in.

(WxDxH) 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 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
Motor Activation: Touch
Orbit: 4mm

Exterior Dimensions: $(W \times D \times H)$ 12 x 7 in. / 30 x 17.8 cm 3.7 x 3.9 x 2.6 in.

Operating Temp. Range: 9.4 x 9.9 x 6.6 cm
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-P



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

BenchMixer™XL Multi-Tube Vortex Mixer





BENCHMIXER"XL

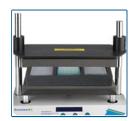
- Hands free, high capacity vortexing
 Up to 2500rpm, a true vortex in every tube
- Pulsing function for interval vortexing
- Wide assortment of accessories for a variety of tubes, flasks and plates

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: 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)**



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









Technical Data:

Speed Range: Fixed, 24 rpm (230V: 20 rpm)

Tilt Angle: ±30°

Platform Size: 12 x 4.5 in. / 30 x 11.4 cm

Load Capacity: 5 lbs (2.3kg)
Operating Temp. Range: +4° C to +65° C

Dimensions: 13.3 x 5.5 x 4 in. / 33.6 x 13.5 x 10 cm

Weight: 4 lbs (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)**



BR1000 with BR1000-STACK

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

Ordering Information:

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

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

Technical Data:

Speed Range: Fixed, 12 rpm
Tilt Angle: Fixed, 10 rpm (230V)

Platform Size: ±8°

Load Capacity: 12 x 12 in./30 x 30 cm

Operating Temp. Range: 5 lbs (2.3kg)
Dimensions: +4°C to +65°C

13.5 x 12 x 4.7 in. 34 x 30 x 12 cm

Stacking Clearance: 34 x 30 x 12 c Weight: 3 in. / 7.6 cm Electrical: 6.5 lbs (3kg)

Warranty: 115 or 230V, 50-60Hz, 50W

2 Years

BenchRocker™ 2D Variable Speed Rocker (2D)





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:

Warranty:

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

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).



2 Years

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



- 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:

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

5 Years

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

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

Warranty:



BlotBoy™ Low Speed Gyratory Rockers (3D)



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



Mini BlotBoy B3D1008



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

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

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

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

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

Technical Data:

Speed Range: Fixed, 12 rpm

Fixed, 10 rpm (230V, 50Hz)

Tilt Angle: Fixed, ±8°

Platform Size:

 Mini BlotBoy
 10.5 x 7.5 in. / 27 x 19 cm

 BlotBoy
 12 x 12 in. / 30 x 30 cm

Load Capacity: 4 lbs (1.8kg)
Operating Temp. Range: +4°C to +65°C

Dimensions: 10.5 x 7.5 x 8 in. / 27 x 19 x 20 cm (WxDxH) 12 x 12 x 8 in. / 30 x 30 x 20 cm

Stacking Clearance: 3 in. / 7.6cm
Weight: 4.4 lb s (2kg)

Electrical: 115 or 230V, 50-60Hz, 50W

Warranty: **2 Years**

BioMixer™ **Gyratory Rockers (3D)**





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



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

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

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

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

Technical Data:

Platform Size:

Dimensions (W x D x H):

Speed Range: Fixed, 24 rpm

Fixed, 20 rpm (230V, 50Hz)

Tilt Angle: Fixed, $\pm 20^{\circ}$

Mini BioMixer 10.5 x 7.5 in. / 27 x 19 cm BioMixer 12 x 12 in. / 30 x 30 cm

Load Capacity: 4 lbs (1.8kg)
Operating Temp. Range: +4 °C to +65 °C

Mini BioMixer 10.5 x 7.5 x 8 in./27 x 19 x 20 cm
BioMixer 12 x 12 x 8 in./30 x 30 x 20 cm
stacking Clearance: 3 in./7.6 cm

Stacking Clearance: 3 in./7.6 cm
Weight: 4.4 lb s (2kg)

Electrical: 115 or 230V, 50-60Hz, 50W

Warranty: 2 Years

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

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



BenchRocker[™] 3D **Variable Speed Gyratory Rocker (3D)**



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. Stacking platforms can be purchased as accessories, effectively doubling the usable surface area of each model.

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

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

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

Technical Data:

Variable, 2 to 30 rpm Speed Range: Variable, 0 to ± 30° Tilt Angle: 12 x 12 in./30 x 30 cm Platform Size: Load Capacity: 5 lbs (2.3kg) +4°C to +65°C Operating Temp. Range: 12x12x8in. 30 x 30 x 20 cm 3 in. / 7.6 cm Stacking Clearance: 7.5 lb s (3.4kg) Weight:

Electrical: 115 or 230V, 50-60Hz, 50W

Warranty: **2 Years**

Orbi-Blotter™ Low Speed Orbital Shaker





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:

Variable, 3 to 70 rpm Speed Range: Orbital / 19mm Motion / Orbit: 3 x 2L or 9 lbs (4kg) Load Capacity: 14 x 12 in./35 x 30 cm Platform Size: +4°C to +65°C Operating Temp. Range: 14x12x8in. 35.5 x 30.5 x 20 cm Stacking Clearance: 3 in. / 7.6 cm Weight: 7.5 lbs (3.4kg)

2 Years

115 or 230V, 50-60Hz, 50W

Ordering Information:		
Item No. Description:		
BT30*	OrbiBlotter [™] low speed orbital shaker	
BR2000-STACK	Stacking platform with 14 x 12" flat mat (3" clearance)	
BR2000-SP	STACK-PLUS Extender set, adds 1.25" clearance to stacking platform	

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

See Pg. 36-37

Electrical: Warranty:

Shaking Incubators





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



Horizontally circular 19mm orbit for aeration and mixing



Instantly exchange flask clamps with MAGic Clamp™ accessories

Technical Data:

Variable, 50 to 300 rpm Speed Range:

Speed Increment: 10 rpm

Motion / Orbit: Orbital / 19mm 4 x 1L or 9 lbs (4kg) Load Capacity:

Platform Size

9.5 x 8 in. / 24 x 20 cm Standard (included): MAGic Clamp (universal): 11.5×9.5 in. $/29 \times 24$ cm

Operating Temp. Range: +4°C to +65°C 1 min. to 99hr, 59 min.

Timer:

Dimensions: (WxDxH): 11 x 10.7 x 5 in. / 28 x 27 x 13 cm

12 lbs (5.5kg) Weight: Universal Voltage Electrical:

100 to 230V, 50-60Hz, 250W

2 Years Warranty:



Item No. Description: BT300* Orbi-Shaker[™] JR. with flat mat platform (9.5 x 8 in.) MAGic Clamp[™] universal platform for flasks and tubes H1000-MR** 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. 19 for a complete listing.



Orbi-Shaker[™] Orbital Shaker





- 🕂 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:

Variable, 30 to 300 rpm Speed Range: 1 rpm Speed Increment: Orbital / 19mm Motion / Orbit:

5x1L or 14 lbs (6.4ka) Load Capacity: 1 min. to 48 hr/continuous Timer:

Platform Size: (W x D x H): 13 x 12 in./33 x 30 cm Standard (included): 14 x 12 in. / 35 x 30 cm MAGic Clamp (universal):

+4°C to +65°C Operating Temp. Range: 11 x 13 x 3 in. / 28 x 33 x 7.5 cm

25 lbs (11.5kg) Weight: 115 or 230V, 50-60Hz, 600W Electrical:

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

^{*115}V with US plug. For 230v (EU plug), please add (-E).
**Flask clamps and tube racks sold separately, see pg. 19 for a complete listing.

Orbi-Shaker™XL **High Capacity Orbital Shaker**







- **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	

Technical Data:

Speed Range: Variable, 30 to 300 rpm

Speed Increment:

Orbital / 19mm Motion / Orbit:

5 x 2L or 9 x 1L/65 lbs (30kg) Load Capacity: 18 x 18 in. / 45 x 45 cm Platform Size: 1 min. to 48 hr/Continuous

4°C to +65°C Operating Temp. Range:

18.5 x 21.25 x 5 in. / 47 x 54 x 12.5 cm

64lbs (29kg) Weight:

120 or 230V, 50-60Hz Electrical:

2 Years Warranty:

Orbi-Shaker[™] CO₂ All Environment Orbital Shaker







Remote controlled, adjust settings from outside the chamber

Instantly exchange flask clamps with MAGic Clamp™ accessories



Ordering Information:

Item No.	Description:
BT4000*	Orbi-Shaker [™] CO ₂ with flat mat platform (13 x 12 in.)
BT3000-MR**	MAGic Clamp™ platform(14x12 in.) for flasks & tubes
H1000-P-SP	Universal spring platform for unique vessel types
H1000-P-MP	Dedicated platform for 4 x microplates

Technical Data:

Variable, 30 to 300 rpm Speed Range: 1 rpm Speed Increment: Orbital / 19mm Motion / Orbit:

Load Capacity:

Platform Size: Standard (included): MAGic Clamp (Small):

MAGic Clamp (Large): Operating Temp. Range:

Shaker:

Remote Control: Cord Length:

Weight:

Electrical:

12 x 13.4 x 3.5 in. / 30 x 34 x 9 cm 7.2 x 6.7 x 3.5 in. / 18 x 17 x 9 cm

0°C to +65°C

60.5 in. / 154 cm 25 lbs (11.5kg)

120 or 230V, 50-60Hz, 600W

5 x 1L or 14 lbs (6.4kg) 1 min. to 48 hr/Continuous

13 x 12 in./33 x 30 cm

14 x 12 in./35 x 30 cm

11.5 x 9.5 in. / 29 x 24 cm

Warranty: 2 Years

^{*115}V with US plug. For 230v (EU plug), please add (-E).
**Flask clamps and tube racks sold separately, see page 19 for a complete listing.

^{*115}V with US plug. For 230v (EU plug), please add (-E).
**Flask clamps and tube racks sold separately, see page 19 for a complete listing.



Orbi-Shaker ™ MP **Microplate Shaker**



Digital speed control up to 1500rpm

3mm orbit for thorough mixing in microplates

+ Includes platform for up to four microplates

Technical Data:

Speed Range: 200 to 1500 rpm

Orbit: 3mn

Max. Capacity: Up to 4 microplates
Operating Temp. Range: +4 °C to +65 °C
Dimensions: 11 x 10.7 x 4.5 in.
(WXDXH) 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**



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).



Orbi-Shaker™ Series, MAGic Clamp™ Accessories

Flask Clamps & Max. Capacity with MAGic Clamp Platforms					
Item No. Description: Platform H1000-MR Platform BT3000-MR Platform H1010-MR					
		Available For Orbi-Shaker JR.	Available For Models Orbi-Shaker & Orbi-Shaker CO2	Available For Orbi-Shaker XL	
H1000-MR-50	Flask clamp, 50ml Erlenmeyer flask	20	30	49	
H1000-MR-125	Flask clamp, 125ml Erlenmeyer flask	12	20	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	

Test Tube / Micro Plate Racks & Max. Capacity for MAGic Clamp Platforms				
Item No.	Description:	Platform H1000-MR Available For Orbi-Shaker JR.	Platform BT3000-MR Available For Models Orbi-Shaker & Orbi-Shaker CO2	Platform H1010-MR Available For Orbi-Shaker XL
H1000-MR-T15	Tube Rack, 15ml conical tubes, 32 x 15ml	2	3	8
H1000-MR-T50	Tube Rack, 50ml conical tubes, 15 x 50ml	2	3	8
H1000-MR-1550	Combi-Tube Rack, 30 x 15ml & 20 x 50ml tubes	2	2	4
H1000-MR-T600	Tube/Bottle Rack, 4 x 500/600ml conical bottles	1	2	4
H1000-MR-T15H	Tube rack, 12 x 1.5/2.0ml tubes, horizontal	2	4	6
H1000-MR-T150H	Tube rack, 4 x 15ml tubes, horizontal	4	6	8
H1000-MR-T500H	Tube rack, 2 x 50ml tubes, horizontal	4	6	8
H1000-MR-MP	Plate rack, holds one microplate	4	6	8
H1000-MR-TSR	Angled tube rack holder (with adjustable tilt)	2	6	8

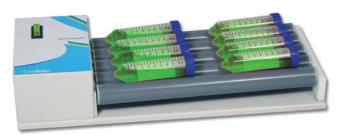


TubeRoller Tilting Tube & Bottle Roller

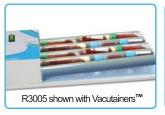


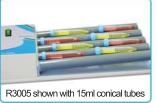


- Gentle rolling motion
- Accepts tubes and bottles (diameter from 8mm to 200mm)



R3005





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

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

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: (WxDxH): 18x7x3.5 in. 45x18x9cm 45x36x9cm

Weight: 11 lbs (5kg) 17.6 lbs (8kg)

Typical Sample Load Capacity:

<u>Vessel</u>	<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	



Homogenizers



D1000 Homogenizer



Quickly homogenizes samples (in under 30 seconds)

→ For volumes from 100µl to 250 ml

Supplied with two generator probes (5mm and 7mm)

Benchmark's new hand-held homogenizer, the D1000, is designed to rapidly homogenize, emulsify, suspend and disrupt biological samples. Ideal for use with microtubes, the homogenizer works well with samples from 0.1ml 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 highly efficient mechanical shearing of the sample. As the sample is repeatedly drawn up and forced through the stator, additional shearing takes place. Most samples are completely homogenized in 30 seconds or less.

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

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



Technical Data:

 Speed Range:
 8,500 to 30,000 rpm

 Capacity:
 0.1 to 250 ml

Noise Level: <70 db

Operating Temp. Range: +4 °C to +65°C (ambient temp.)
Dimensions: 1.8 x 2.3 x 9 in. (without probe)

Weight: 4.5 x 5.8 x 22.5 cm 1.35 lbs (0.6kg)

Electrical: 115V or 230V, 50-60 Hz, 130W

Warranty: 2 Years

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

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**

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

Ordering Information:

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

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

For best results, use with Benchmark Prefilled Tube Kits







Triple-Pure™ (Molecular Biology Grade) Zirconium Beads

Technical Data:

2,800 to 4,000rpm Speed Range: Max. Capacity: 3 x 2.0ml (non-skirted) 3 sec. to 3 min. Timer:

 $+4^{\circ}$ C to $+65^{\circ}$ C (ambient temp.) Operating Temp. Range:

6.9 x 8.3 x 5.3 in. Dimensions: 17 x 21 x 13.5 cm 5 lbs (2.2kg) Weight:

115 or 230V, 50-60Hz, 50W Electrical:

2 Years Warranty:

BeadBlaster ™ 24 Microtube Homogenizer



- Fast, efficient homogenization, usually in 35 seconds or less
- For all sample types, from soft tissue to bone
- $\overset{ ext{+}}{ ext{+}}$ High throughput, up to 24 samples
- $\stackrel{ extstyle +}{ extstyle +}$ 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.



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:
 11 x 14.2 x 15.2 in.

 (WxDxH):
 28 x 36 x 23.5cm

 Weight:
 55 lbs (25kg)

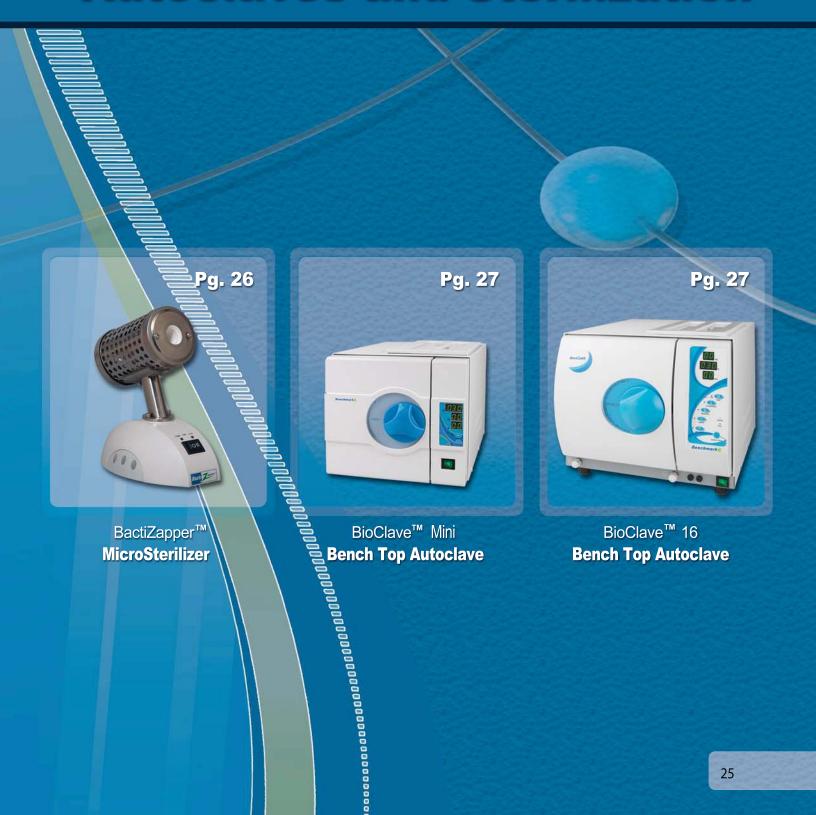
Electrical: 115 or 230V, 50-60Hz,

Warranty: 2 Years

Ordering Information:

Orderi	ng 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 Tul	lnclude 2.0ml Non-Skirted Screw Cap tubes with caps, sealing rings and beads as specified below:
D1031-01	Standard glass beads, ØD 0.1mm, 50pk.
D1031-05	Standard glass beads, ØD 0.5mm, 50pk.
D1031-10	Standard glass beads, ØD 1.0mm, 50pk.
D1032-01	Triple-Pure, high impact zirconium beads, ØD 0.1mm, 50pk.
D1032-05	Triple-Pure, high impact zirconium beads, ØD 0.5mm, 50pk.
D1032-10	Triple-Pure, high impact zirconium beads, ØD 1.0mm, 50pk.
D1032-15	Triple-Pure, high impact zirconium beads, ØD 1.5mm, 50pk.
D1032-30	Triple-Pure, high impact zirconium beads, ØD 3.0mm, 50pk.
D1032-SK	Starter Kit, 10 ea. of Ø 0.1, 0.5, 1.0, 1.5 & 3.0 Triple-Pure Zirconium
D1033-28	Stainless steel beads, ØD 2.8mm, 50pk.
D1031-T20	Empty tubes (2.0ml) pack of 1000
D1034-28	5ml tubes (snap cap) with stainless beads, ØD 2.8mm, 50pk

Autoclaves and Sterilization



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) for 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 extremely compact, convenient and can be used in anaerobic and aerobic chambers.

Technical Data:

Low Temperature Setting: 500°C / 950°F Sterilization Time: Chamber Diameter: Chamber Length: External Dimensions:

Weight: Electrical Data:

Warranty:

High Temperature Setting: 815°C / 1500°F 5 - 7 seconds 0.55 in. / 14mm 6 in. / 153mm 4x6x6.5 in. 10.2 x 15.2 x 16.5 cm 2.9 lbs. (1.3 kg)

115 or 230V, 50-60Hz 170 Watts

1 Year*

*Excludes heating element

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

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

BioClave[™] Series Research Autoclaves

Americans of the Caster of the



CE



B4000-M



BioClave Mini



BioClave 16

Ordering Information:

Description:
BioClave Mini Autoclave (8L)
BioClave Autoclave (16L)
Printer for BioClave series
Extra roll of paper for B4000-P

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

BioCLAVE

Fully automatic; just press start
 Rapid, complete sterilization

Extremely compact

Built in water tank, does not require connection to an external water supply

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

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

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. 51 x 34 x 33 cm

Weight: 74 lbs (33 kg)

Electrical: 115 or 230V, 50-60Hz, 950W

Warranty: 1 Yea

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: $22 \times 17.5 \times 15.7$ in. $66 \times 44.5 \times 40$ cm Weight: 89 lbs (40 kg)

Electrical: 115 or 230V, 50-60Hz, 1600W

Warranty: 1 Year

Temperature Control Equipment





Digital Hotplates, Stirrers & Hotplate Stirrers



- Large, backlit LCD display
 Safety LED indicates hot surface
 White ceramic top plate
- Control <u>actual</u> temperature (with optional probe)



Large, backlit LCD display

Technical Data:

H3760-H (Hotplate)

Temp. Range: Ambient+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.

(WxDxH) 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.

Dimensions: $7 \times 10.5 \times 4 \text{ in.}$ (W × D × H) $18 \times 26.7 \times 10.1 \text{ cm}$ 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: Ambient +5°C to 380°C

Platform: 6.5 x 6.5 in./16.5 x 16.5 cm

Dimensions: (W × D × H) 7 x 10.5 x 4 in.

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 contol. When connected, the probe provides direct feedback to the microprocessor, which continuously adjusts and maintains the selected temperature *in the sample* within +/- 0.5°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)**





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

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

Despite a modest footprint of 14.5 x 13", the MyTemp incubators feature large internal chambers, capable of 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.



Ordering Information:

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

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

Technical Data:

Temp. Range (-H): Temp. Range: (-HC): Temp. Accuracy: Temp. Increments: Temp. Uniformity: Capacity: Dimensions: Interior: Exterior: Weight:

Electrical: Warranty:

Amb. +1° to 60°C Amb. -15° to 60 °C ± 0.5°C (at 37°C) 1°C

± 1°C (at 37°C) 20L or 0.8 cu. ft. (wxdxh)

10.3 x 9.3 x 12.8 in./ 26 x 23.5 x 33 cm 13.2 x 14.5 x 18.7 in. / 33.5 x 37 x 48 cm

15 lbs (6.5kg) 100 to 240V, 50-60Hz

2 Years

myBlock™ Series **Digital Dry Baths**



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*	$\label{eq:myBlock} \textbf{Mathematical myBlock I single chamber, without blocks}$
BSH5002*	myBlock II dual chamber, without blocks
BSH-TP1	External temperature sensor
BSWCMB	Block, Quick-Flip, $24 \times 1.5/2.0$ ml, 14×0.5 ml, $6 \times PCR$ strips $/48 \times 0.2$ ml (& 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 & 4 block models)
BSWPCR1	Block, 1 x 96-well PCR Plate (1 block model)
BSWMT	Block, 1 x Micro Plate (2 and 4 block models)
BSW01	Block, solid - for slides or custom machining

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

revent the transparent lid from clos

NYBLOCK"

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





Technical Data:

Temp. Range: Amb. +5 to 105°C +/- 0.1°C Temp. Accuracy: 0.1°C Temp. Increments: Temp. Uniformity: +/-0.2°C Timer: 1min. to 99 hr & 59 min. Dimensions (WxDxH): $7 \times 10 \times 5$ in. $/18 \times 25 \times 13$ cm Single:

6.3 x 14.5 x 5 in. / 16 x 36.5 x 13 cm +4°C to +65°C 115V or 230V, 50-60 Hz, Operating Temp. Range: 120W (single) / 240W (dual)

2 Years

Warranty:

Electrical:

isoBlock™ **Digital Dry Bath**





- Two isolated chambers Independent time & temperature control
- Hinged cover Improves uniformity, conserves energy
- Unique Quick-Flip™ Universal blocks



Video Demonstration

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

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

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

Ordering	Information:
Item No.	Description:
BSH6000*	IsoBlock drybath, with two independent chambers
BSWCMB	Block, Quick-Flip, 24 x 1.5/2.0ml, 14 x 0.5ml, 6 x PCR strips / 48 x 0.2ml & (in dual model only) one PCR plate
BSW1500	Block, 24 x 1.5ml
BSW1520	Block, 24 x 1.5/2.0ml
BSW05	Block, 24 x 0.5ml
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 & 4 block models)
BSWPCR1	Block, 1 x 96-well PCR Plate (1 block model)
BSWMT	Block, 1 x Micro Plate (2 and 4 block models)
BSW01	Block, solid - for slides or custom machining

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

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



Technical Data:

Warranty:

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

myBlock™ **Digital Dry Baths**



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

Technical Data:

Temp. Range: Temp. Accuracy: Amb. +5 to 100°C ± 0.5°C

Temp. Increments: 0.1°C +/-0.2°C Temp. Uniformity:

4x6x4.5 in. / 10.5 x 15 x 11.5 cm **Dimensions Block Dimensions:** 1.85 x 2.8 x 1.25 in.

4.7 x 7.1 x 3.2 cm Weight: 2lbs (1kg) Universal voltage Electrical:

100-240V, 50-60 Hz, 50W

Warranty:

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

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









Ordering	Information:
Item No.	Description:
BSH200*	myBlock Mini Digital Dry Bath
B SH100-02	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)

*Includes US plug. For EU plug, please add (-E) **Block height may prevent lid from closing.

Ordering Information:		
Item No.	Description:	
BSH200-HL*	myBlock Mini Digital Dry Bath with heated lid	
B SH100-02	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 in increments of 0.1°C, making this myBlock the ideal choice for the most temperature sensitive applications, including immunoassays, LAMP assays, enzyme reactions - anywhere reactant concentration is critical.

MyBath™ **Digital Water Baths**



The myBath series is designed to guarantee superior accuracy and performance in a compact footprint. Easy to use controls allow the user to digitaly 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.

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	
	*115\/with LIS plug	

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

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

Tube racks included with myBath 4L!







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		Ambient +	- 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 / 2.0 kg	15 lbs / 6.5 kg	17 lbs / 8 kg	17 lbs / 8 kg
Electrical	115 or 230V, 50-60Hz 2 Years			
Warranty				

Incu-Shaker™ Mini Shaking Incubator





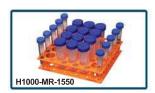
INCU-SHAKER" Mini

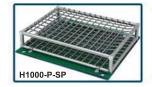
- Domed lid accepts flasks up to 1L (NEW!)
- **Exceptional temperature uniformity**
- **Extremely compact: just 11" wide**
 - **Exchange flask clamps in one second** with MAGic Clamp™ magnetic system

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.

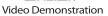
The standard platform (included) features a non-slip, rubber coated surface, ideal for tissue culture flasks, Petri dishes and staining trays.

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













Technical Data:

Temperature Range: Ambient +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) 115 or 230V, 50-60Hz, 300W Electrical: Warranty:

2 Years

Ordering	Information:
Item No.	Description:
H1000-M*	Incu-Shaker™ Mini with non-slip rubber mat
H1000-MR	MAGic Clamp™ Universal platform (for flasks/tubes)
H1000-P-500	Dedicated platform with 5 x 500ml flask clamps
H1000-P-250	Dedicated platform with 8 x 250ml flask clamps
H1000-P-125	Dedicated platform with 12 x 125ml flask clamps
H1000-P-MP	4 x microplate platform (standard or deepwell)
H1000-P-SP	Spring rack platform, for uncommon vessels
Accessories for H	1000-MR MAGic Clamp Platform
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)



Incu-Shaker™ 10L **Shaking Incubators**



INCU-SHAKER" IOL

- 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.





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 INSTANT flask attachment system

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-MP	6 x microplate platform (standard or deepwell)
H1010-P-SP	Spring rack platform, for uncommon vessels
H1010-SH	Shelf, 14 x 5.5" for Petri dishes, microplates, etc.
Accessories for H	I1010-MR MAGic Clamp Platform
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)

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

Technical Data:

Temperature Range:

Timer

Ambient +5 to 60°C H1012: Ambient -15 to 60°C

0.1°C Temperature Increments: ±0.25% Temperature Uniformity ±0.1°C Temperature Accuracy: Shaking Speed Range: 30 to 300rpm Speed Increments: 1rpm

Shaking Orbit: 19mm (3/4")

17.8 x 17.8 in. / 45 x 45 cm Platform Dimensions: **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 Hieght (lid open): 38 in. / 96.5 cm

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



60°C

SB-12L Shaking Water Bath



	Bottles/Tubes	Flasks
22.55	MASS	1464
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

- 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 customdesigned racks can also be made available by request.





Technical Data:

Temperature Range:
Temperature Increments:
Temperature Uniformity
Temperature Accuracy:
Shaking Speed Range:
Speed Increments:
Shaking Orbit:
Platform Dimensions:
Exterior Dimensions
Capacity:
Timer:

Weight:

Warranty:

Ambient +5° to 80°C 0.1°C ±0.2°C (at 37°C) ±0.3°C (at 37°C) 30 to 200rpm 1rpm 25mm (1") Universal spring platfrom

12.2 x 13.25 x 12 in. / 32 x 34 x 30 cm 12 Liter

1 min. to 48 hours / continuous 31 lbs. (14 kg)

Electrical: 115 or 230V, 50-60Hz, 300W

2 Years

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**





- 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 Reverse transcription
- Lipid extractions

CE

- Yeast and bacteria cultivation
- Restriction digests
- 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): Temp. Range (H): Heating Ramp Rate: Cooling Ramp Rate: Temp. Accuracy: Speed Range: Motion / Orbit: Capacity: Dimensions:

Ambient +5° to 100°C 5.0°C/min. 2.5°C/min. (HC only) +/-1.0°C 200 to 1500 rpm, or "off" Orbital / 3mm Per selected block 8.25 x 11.5 x 8.25 in. 21 x 29 x 21 cm

Ambient -20° to 100°C

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 / Amb10 to 100° C)
H5000-150	Block, 12 x 15ml (200-750rpm / Amb10 to 100°C)
H5000-500	Block, 6 x 50ml (200-750rpm / Amb10 to 100°C)
H5000-MP	Block, 1 x microplate (Amb10 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).

INCU-N HEATED MICROPLATE VORTEXER



Heated lid prevents condensation

Accepts a variety of microplates

Available in two-plate or four-plate format

Ambient +5 to 70°C

Ordering Information:

0.000	
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)

TC 9639 Thermal Cycler



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

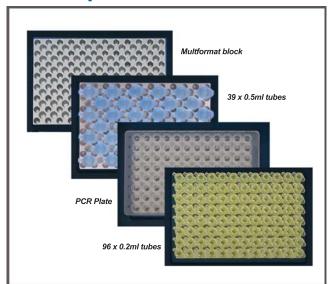
Fast, reliable cycling and ease of use make the TC 9639 Thermal Cycler an ideal choice for medium to high throughput laboratories.

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 multiformat 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:

384 Well Block:

In-situ Adapter:

Ramp Rate:

Accuracy/Uniformity:

Lid Temperature:

Multiformat Block: 96 x 0.2ml tubes/strip tubes

or 39 x 0.5ml tubes

or 1 nonskirted 96 well plate

1 x 384 well plate

4 slides (fits multiformat block) Temp. Control Range:

0° to 100°C

Temperature Control: Simulated sample or block

±0.2°C/±0.2°C

4°C/second (maximum)

30° to 112°C, user adjustable Program Memory: Unlimited, with a flash drive Increments/decrements: Yes, time and temperature

Power Failure Restart: Dimensions:

10.2 x 14.2 x 9.9 in. 26 x 36 x 25 cm

16 lbs. (7.3kg) Weight: 115V or 230V, 50-60 Hz Electrical:

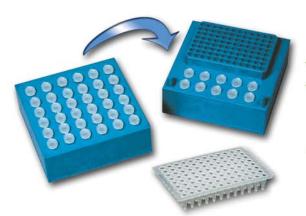
Warranty: 2 Years

Ordering Information:		
Item No.	Description:	
T5000-96*	TC 9639 Thermal Cycler, multiformat 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	

Also Available from Benchmark



CoolCube™ Microtube and PCR Plate Cooler





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





- 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*

Temerature Range: -70° to 500°C Sterilization: Autoclave

Cap Material: Polypropylene (140°C)
Cap Colors: Standard Blue

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 (<u>-B</u>) with (<u>-G</u>) for green caps, (<u>-P</u>) for purple caps, (<u>-Y</u>) for yellow caps, (<u>-W</u>) for white caps or (<u>-AS</u>) for assorted caps (2 of each color).

Benchmark[™] Agarose LE





Green Choice, free from organic solvents

Enhanced resolution and clarity

Low EEO / increased electrophoretic mobility

lack+ 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: \geq 1200g/cm² (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:
Protease / Endonuclease:
Store Conditions:

None detected
None detected
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:

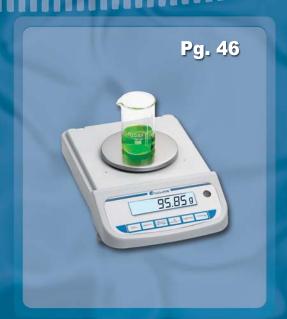
Gel Strength: \geq 1200g/cm² (1%) Gel Temperature: 36°C ±1.5°C (1.5%) Melt Temperature: 88°C ±1.5°C (1.5%)

EEO (-mr): 0.13

Moisture Content: $\leq 7\%$ Sulfate: $\leq 0.2\%$

RNase/DNase:
Protease/Endonuclease:
Store Conditions:
None detected
None detected
Room temperature

Precision Instruments

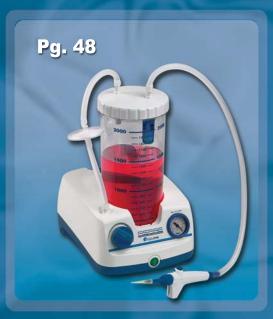


Accuris™ Compact & Precision Balances



Accuris™ Analytical **Balances**





Aspire™ **Laboratory Aspirator**



NextPette™ Variable Volume Pipettors

Accuris[™] Compact & Precision **Balances**





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 demanding laboratory applications, engineered for true *research grade* weighing capabilities, and 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 in various applications, including weight accumulation, 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.
Draft Shield	Yes, plastic ring			No		
Weighing Units	g, oz, ct					
Calibration	External					
Display	Backlit LCD					
Exterior Dims.	18.8 x 28 x 8 cm					
(W x D x H)	7.5 x 11 x 3.1 inches					

	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 ir	١.	16cm / 6.3 in.		
Draft Shield	yes, 3-door glass enclosure			No		
Weighing Units	g, oz, ct					
Calibration	External					
Display	Backlit LCD					
Exterior Dims.	20.5 × 35 × 9 cm					
(W x D x H)	8 × 13.75 × 3.5 inches					



Accuris™ Analytical **Balances**



- ♣ 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 and each incorporates a highly precise, electromagnetic sensor to deliver unsurpassed accuracy and readability to 0.0001g (0.1mg)

All models feature advanced adjustable feet and a leveling bubble indicator. Two tare keys are conveniently located on both sides of the control panel, providing convenience and comfortable use for both right and left handed users. Although all models incorporate in-lab calibration firmware and a stainless steel calibration weight, they are also available with a unique *Quick-Cal*™ function (Items: W3100-120A & W3100-210A) that provides fast, reliable internal calibration with the push of a button. The glass enclosure (draft shield) has 3 sliding doors "right, left and top" to isolate the weighing area from the ambient environment.

	ANALYTICAL BALANCES				
Item No.*	W3100-120	W3100-210	W3100-120A	W3100-210A	
Calibration	Exte	ernal	Internal Quick-Cal™		
Capacity	120 grams	210 grams	120 grams 210 gram		
Readability	0.000	l grams	0.0001 grams		
Pan	Stainless Steel: 3.5 cm Ø (9cm)		Stainless Steel: 3.5 cm Ø (9cm)		
Weighing Units	g, oz	, lb, ct	g, oz, lb, ct		
Display	Backl	it LCD	Backlit LCD		
Draft Shield	Yes,	Glass	Yes, Glass		
Exterior Dims.	32 x 47 x 28 cm		32 x 47 x 28 cm		
(W x D x H)	12.5 x 1	8.5 x 11 in.	12.5 x 18.5 x 11 in.		

*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

Accuris™ ASPIRE Laboratory Aspirator





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 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.



- Compact Design
- 🕂 Built-in Vacuum Pump
- ightharpoonup 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 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:
Dimensions:

9.5 x 7.9 x 13.5 in.

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-S8	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 (included)				
V0020-TB	Extra tubing, 4 inch.				

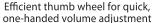




NEXTPETTE

- 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)







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, asymetrical designed plunger button that can be rotated to match the comfort preference of the user. This button is freely adjustable to rotate continuously between wide setting, resulting in the more traditional feel of a round, larger diameter plunger 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. Silicone lubricant is included with each pipettor. Recalibration can be done in the lab - no tools are required and the instruction manual includes full details on how to properly check pipetting accuracy and how to 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	g Information & Technical Data:			
Item No.	Description:	Inaccuracy:	Inprecision:	Tip Size:
P7700-2	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 μΙ
P7700-100	NextPette™ variable volume pipette 010 to 100 μl	± 1.5 to 0.8%	± 1.5 to 0.8%	200 μΙ
P7700-200	NextPette™ variable volume pipette 20 to 200 µl	± 1.2 to 0.6%	± 1.0 to 0.6%	200 μΙ
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









2014



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