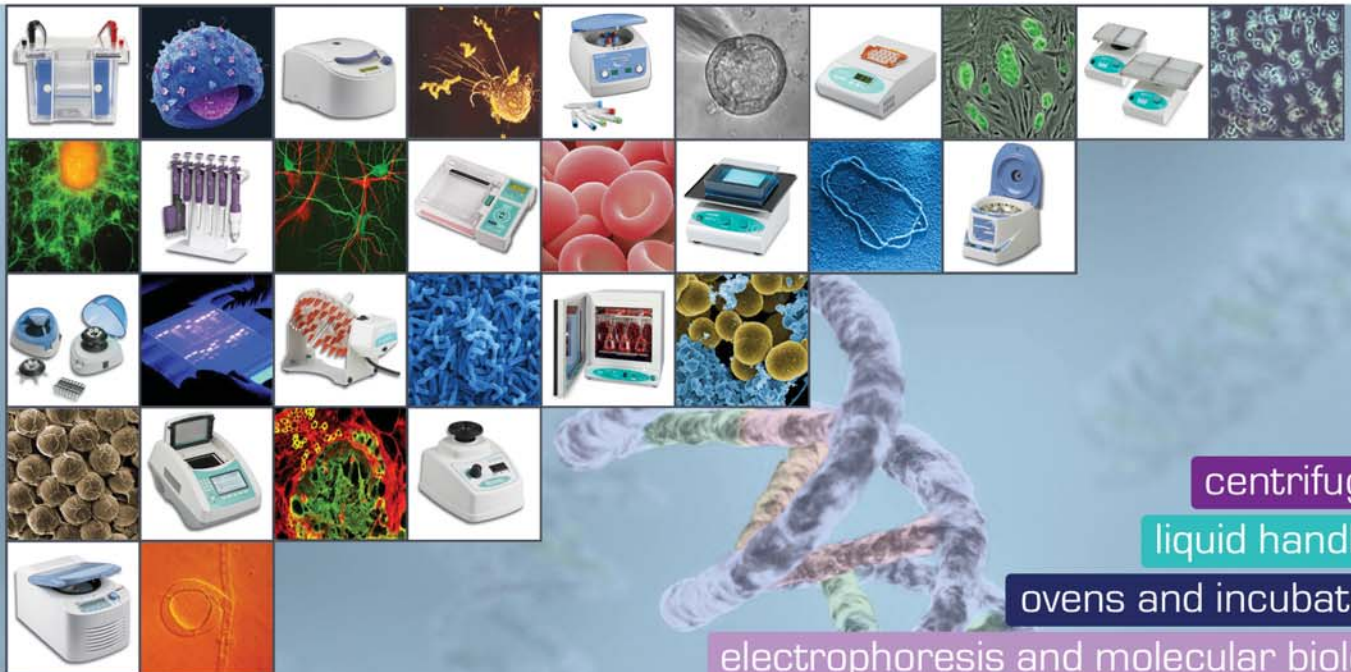


Labnet
Labnet International, Inc.

europaean catalogue
2011 - 2012



products for biological research



centrifuges

liquid handling

ovens and incubators

electrophoresis and molecular biology

shakers, rockers and rotators

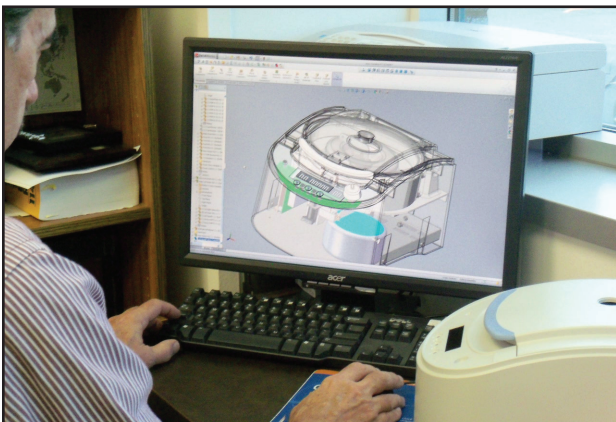
plasticware

We are pleased to introduce our **2011/2012** European Catalogue. This publication features our latest offering of laboratory equipment and supplies that are distributed throughout Europe.

Founded in 1984, Labnet started with the basic mission of supplying products of high quality, utility and value to bioscience research laboratories. We have maintained that mission for over 25 years and combined it with a focused effort on growing our business through new product introductions and expansion of our distribution network.



Labnet's US Headquarters in Edison, NJ, USA



Product Design and Development

Today, Labnet is a leading worldwide supplier in a number of core product areas: centrifugation, liquid handling, shakers & rockers, constant temperature equipment, molecular biology equipment and laboratory plastics. Our well established brands which include our Spectrafuge™, BioPette™, Enduro™, AccuBlock™, and MultiGene™ are recognized internationally as reliable and effective research tools.

As we move forward, we understand that the future growth and success of our company will require a continuous stream of innovative products. We have expanded our US manufacturing facility, acquired manufacturing and distribution facilities in Europe, and have developed contract manufacturing partnerships throughout the world. Our in-house product design and development teams are continually working on new products to meet the evolving needs of the scientific research community.



US Manufacturing Facility for Centrifuges, Benchtop Mixers and Electrophoresis Products

Products for Bioscience Research



Warehouse Facilities

Labnet products are available to our end user customers through a qualified, worldwide network of dealers covering over 80 countries. These dealer partners provide technical information, product demonstrations and field support, and stock our products to quickly fill customer orders. In support of our dealers, Labnet provides in-house technical and service support and maintains large inventories in our US and European facilities.

Please visit Labnet's website: www.labnetlink.com, for up to date information on new and existing product lines, technical documents, instruction manuals, and links to contact our various departments and sales offices. Price quotations can also be requested from the website. In addition, customers can complete an on-line warranty registration for recently purchased products.



Labnet's Website www.labnetlink.com

Labnet's Mission is to continually grow our position as a valued supplier to the Bioscience Research Market by sourcing, developing and manufacturing products which offer our customers the best combination of quality, features, service and cost.

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CENTRIFUGES

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- MINI
- MICRO
- COMPACT



Spectrafuge™ Mini Centrifuges and Slide Spinner

Compact in design and personal sized, the *Spectrafuge Mini* is ideal for microfiltration and quick spin downs from the walls and caps of microcentrifuge tubes while the *Slide Spinner* is designed for drying microarray slides before scanning.

The *Spectrafuge Mini* is supplied with rotors and adapters to accommodate 1.5/2.0 mL, 0.5 mL and 0.4 mL tubes as well as 0.2 mL strips and individual tubes. The rotors are easily interchanged.

The *Slide Spinner* dries two slides in as little as 10 seconds for quality imaging and screening results. The slides are placed into cassettes that catch all liquid without splashing. Cassettes are reusable.

Both centrifuges feature a translucent lid that pivots on a durable stainless steel hinge pin. A switch on the side of the centrifuge starts and stops operation. Alternatively, with the switch in the "on" position, the centrifuge can be started and stopped by closing and opening the lid.

The *Spectrafuge Mini* is available in five different lid colors: gray, blue, teal, purple and red.

- For microtubes and strip tubes or slides
- Convenient on/off switch
- Small footprint
- Starts and stops in seconds



Spectrafuge Mini



Slide Spinner



SPECIFICATIONS

	Spectrafuge Mini	Slide Spinner
Maximum speed/RCF	6,000 rpm/2,000 x g ¹	4,800 rpm
Maximum capacity	2 x 0.2 mL strips or 6 x 1.5/2.0 mL	2 standard slides
Dimensions (W x D x H)	5.9 x 5.9 x 4.6 in/15 x 15 x 11.7 cm	5.9 x 5.9 x 4.6 in/15 x 15 x 11.7 cm
Weight	1 lb/0.45 kg	1 lb/0.45 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz	230V~, 50 Hz or 120V~, 60 Hz

¹Average max rcf in the strip tube rotor is 1,177 x g

ORDERING INFORMATION

Catalog No.	Description
C1301-230V*	<i>Spectrafuge Mini</i> complete with 1.5/2.0 mL rotor, strip tube rotor, 0.5 mL and 0.4 mL adapters, smoke gray lid, 230V
C1301-B-230V*	<i>Spectrafuge Mini</i> , as above, blue lid, 230V
C1301-T-230V*	<i>Spectrafuge Mini</i> , as above, teal lid, 230V
C1301-P-230V*	<i>Spectrafuge Mini</i> , as above, purple lid, 230V
C1301-R-230V*	<i>Spectrafuge Mini</i> , as above, red lid, 230V
C1300-RT	Replacement rotor for 6 x 1.5/2.0 mL tubes
C1300-RTS	Replacement rotor for 0.2 mL strip tubes or individual 0.2 mL tubes
C1205	Individual adapters for 0.5/0.6 mL tubes, pk of 6
C1206	Individual adapters for 0.4/0.25 mL tubes, pk of 6
C1222	Individual adapters for 0.2 mL thermal cycling tubes, pk of 6
C1303-T-230V*	<i>Slide Spinner</i> with two slide drying cassettes, 230V
C1303-SC	Extra cassettes for <i>Slide Spinner</i> centrifuge, pack of 2

*When ordering 230V units, please specify cord type by adding -EU or -UK to the end of the catalog number. 120V units are available. When ordering, please specify by removing -230V from catalog number.

MPS 1000 Mini Plate Spinner Centrifuge

Labnet's *MPS 1000 Mini Plate Spinner* is the first centrifuge designed specifically for quick and easy centrifugation of samples in PCR plates or microplates.

Centrifuges that accept microplates are typically larger units that take up valuable space on the bench. The unique design of the *Mini Plate Spinner*, results in a compact centrifuge that has an extremely small footprint - just 15.24 x 15.24 cm. Two standard microplates are loaded through a slot in the top of the unit. Sealed plates are loaded vertically - surface tension keeps samples in place so there is no danger of spilling samples.

Upon closing the lid of the unit, the rotor quickly accelerates the microplates to 2,500 rpm. Pressing the open button engages the brake and brings the rotor to a stop. For temperature sensitive applications, the *Plate Spinner* may be used in a cold room.



- Designed specifically for centrifugation of microplates
- Capacity for two standard plates
- Top loading design
- Exceptionally small footprint
- Starts and stops in seconds



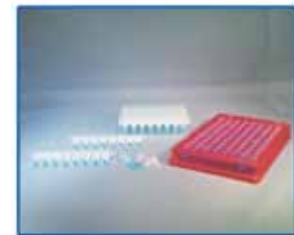
Loading a plate

Patent Pending



SPECIFICATIONS

Speed	2,500 rpm
Maximum capacity	2 standard PCR or microtiter plates
Ambient operating range	4° to 35°C
Dimensions (W x D x H)	6 x 6 x 7 in/15.24 x 15.24 x 17.78 cm
Weight	3.3 lb/1.5 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz



C1000-ADAPT

ORDERING INFORMATION

Catalog No.	Description
C1000-230V*	MPS 1000 Plate Spinner centrifuge, 230V
C1000-ADAPT	MPS 1000 PCR Support Plate

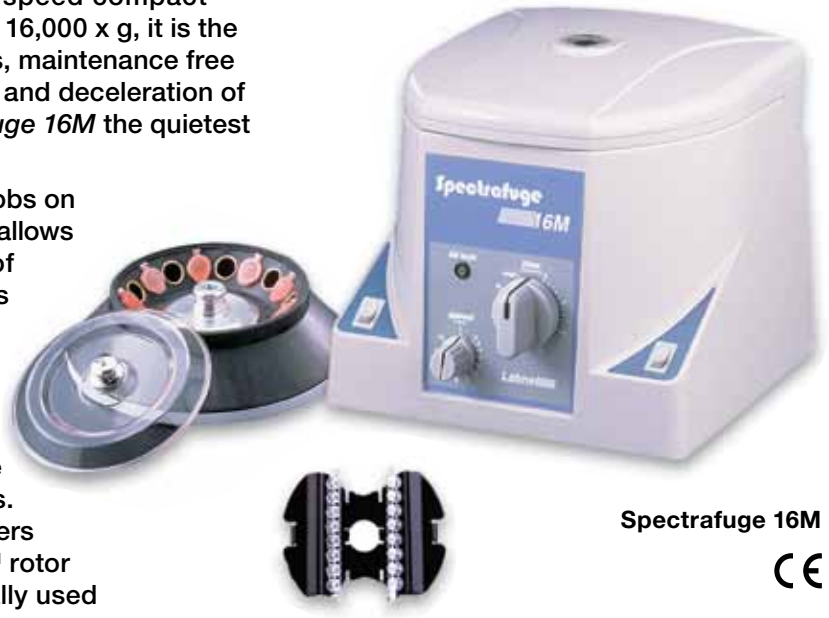
*When ordering 230V units, please specify cord type by adding -EU or -UK to the end of the catalog number. 120V units are available. When ordering, please specify by removing -230V from catalog number.

Spectrafuge™ 16M

The *Spectrafuge 16M* is the perfect high speed compact microcentrifuge. Producing a maximum of 16,000 x g, it is the ideal unit for DNA applications. A brushless, maintenance free motor provides extremely fast acceleration and deceleration of the 18-place rotor and makes the *Spectrafuge 16M* the quietest microcentrifuge in its class.

Speed and time are set with the control knobs on the front panel of the unit. A “Quick” button allows for momentary runs. A continuous flow of ambient air through the rotor chamber keeps the rotor and samples cool. For applications requiring sub-ambient temperatures, the *Spectrafuge 16M* may be operated in a cold room.

The *Spectrafuge 16M* is supplied complete with an 18 place rotor for 1.5/2.0 mL tubes. Smaller tubes are accommodated by adapters (sold separately). The optional Strip-Spin™ rotor adapter holds two 8 x 0.2 mL strips, typically used for thermal cycling.



Spectrafuge 16M
CE

- Maximum speed 14,000 rpm/16,000 x g
- Complete with 18 x 1.5/2.0 mL rotor
- Exceptionally quiet and cool operation
- Extremely small footprint

SPECIFICATIONS

Speed range	1,000 rpm to 14,000 rpm
Maximum RCF	16,000 x g
Maximum capacity	18 x 1.5/2.0 mL
Acceleration to max. speed	10 seconds
Deceleration from max. speed	9 seconds
Timer	1 - 30 min or continuous “Quick” button for momentary operation
Ambient operating range	4° to 35°C
Dimensions (W x D x H)	8.25 x 8.9 x 7.6 in/21 x 23 x 19.3 cm
Weight	10 lb/4.5 kg
Electrical	230V~ or 120V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
C0160-230V*	<i>Spectrafuge 16M</i> Microcentrifuge, standard gray, 230V
C0160-SS	<i>StripSpin</i> adapter for 0.2 mL tubes and strips. Fits on standard rotor
C1205	Individual adapters for 0.5/0.6 mL tubes, pk of 6
C1206	Individual adapters for 0.4/0.25 mL tubes, pk of 6
C1222	Individual adapters for 0.2 mL thermal cycling tubes, pk of 6

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

Spectrafuge™ 24D

The *Spectrafuge 24D* combines innovations such as a unique, easy access rotor, exclusive multi-flow air cooling system and high performance drive with a digital microprocessor that precisely regulates operation.

Parameters are selected with two “smart” knobs and values are shown on large, easy to read, LED displays. Speed can be set and displayed in rpm or g-force while runs may be timed, continuous or momentary.

The unique design of the 24-place rotor allows easy access to the tops of the tubes. An optional *StripSpin™* adapter fits onto the rotor for spinning 0.2 mL tubes and strips. A powerful, brushless motor quickly accelerates the rotor to set speed.

Air enters the centrifuge through vents on the back of the housing and is circulated in multiple directions to maximize cooling. The result is a cool running microcentrifuge that keeps samples close to ambient temperature, even during extended runs at maximum speed. For samples that require below ambient temperatures, the *Spectrafuge 24D* may be used in a cold room.



- Maximum speed 13,300 rpm/16,300 x g
- Complete with easy access, 24 x 1.5/2.0 mL rotor
- Precision control with digital display
- Set and view speed in rpm or g-force
- Quiet and cool running



SPECIFICATIONS

Speed range	500 rpm to 13,300 rpm
Maximum RCF	16,300 x g
Maximum capacity	24 x 1.5/2.0 mL
Timer	1 to 30 minutes or continuous “Quick” button for momentary operation
Ambient operating range	4° to 35°C
Dimensions (W x D x H)	9.25 x 11.5 x 8.5 in/ 23.5 x 29.3 x 21.6 cm
Weight	18 lb/8.1 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz



Cut-away view of easy access rotor

ORDERING INFORMATION

Catalog No.	Description
C2400-230V*	<i>Spectrafuge 24D</i> digital microcentrifuge, standard gray, 230V
C2400-B-230V*	<i>Spectrafuge 24D</i> digital microcentrifuge, blue accents, 230V
C2400-T-230V*	<i>Spectrafuge 24D</i> digital microcentrifuge, teal accents, 230V
C2400-P-230V*	<i>Spectrafuge 24D</i> digital microcentrifuge, purple accents, 230V
C2400-R-230V*	<i>Spectrafuge 24D</i> digital microcentrifuge, red accents, 230V
C2400-SS	<i>StripSpin</i> adapter for 0.2 mL tubes and strips. Fits onto standard rotor
C1205	Individual adapters for 0.5/0.6 mL tubes, pk of 6
C1206	Individual adapters for 0.4/0.25 mL tubes, pk of 6
C1222	Individual adapters for 0.2 mL thermal cycling tubes, pk of 6

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

Prism™ Microcentrifuge

The *Prism* is the newest addition to Labnet's microcentrifuge line. It has a unique air-flow and motor drive technologies designed to keep sample temperature rise to a minimum, even when operating at maximum speed of 15,000 rpm/21,200 x g. It can be used in a cold room.

The updated control panel, with a single large control knob and easy to read Liquid Crystal Display provides an intuitive interface for operation. Speed is easily set and displayed in either rpm or rcf. Actual speed and time remaining are displayed during the run. Quick acceleration and deceleration reduce processing time, and the unique "multi-flow" air cooling system keeps the rotor and samples close to ambient temperature with minimal noise.



CE

- Unique Multi-Flow air-cooling technology
- Includes easy access rotor with optional StripSpin™ adapter
- Quiet operation with easy to use control panel
- Quick acceleration and deceleration time



SPECIFICATIONS

Speed range	500 to 15,000 rpm
Maximum RCF	21,200 x g
Maximum capacity	24 x 1.5/2.0 mL
Timer	0.5 to 99 minutes or continuous "Quick" button for momentary operation
Temperature range	N/A
Dimensions (W x D x H)	9.45 x 13.8 x 7.48 in/24 x 35 x 19 cm
Weight	21 lb/9.6 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz

ORDERING INFORMATION

Catalog No.	Description
C2500-230V*	<i>Prism</i> ambient microcentrifuge with 24 place rotor, 230V
C2400-SS	<i>StripSpin</i> adapter for 0.2 mL tubes and strips
C1205	Individual adapters for 0.5/0.6 mL tubes, pk of 6
C1206	Individual adapters for 0.4/0.25 mL tubes, pk of 6
C1222	Individual adapters for 0.2 mL thermal cycling tubes, pk of 6

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

Prism R Microcentrifuge

The Labnet *Prism R* is quickly becoming the benchmark in the refrigerated microcentrifuge category. In spite of its remarkably small footprint, the Prism R has a powerful brushless motor and cooling capacity to spare. It has a user-friendly LCD control panel which provides intuitive control over all operating parameters, including speed, time and temperature.

The Prism R is a refrigerated unit that maintains temperatures as low as 10°C and can reach 4°C in less than 8 minutes. The speed can be set in both rpm or rcf. Operation can be timed up to 99 minutes, or continuous. A momentary spin function is activated by pressing and holding the quick key.

The uniquely designed 24-place rotor allows easy access to the tops of sample tubes, allowing for faster work flow. The rotor accepts 1.5/2.0 mL tubes directly and small tubes through the use of adapters (sold separately). An optional StripSpin adapter snaps on to the top of the rotor for spinning 0.2 mL tubes and PCR strips. The rotor is seated on a tapered shaft which facilitates easy removal of the rotor for cleaning and autoclaving.



CE



- Powerful refrigerated system and Quick-COOL to 4°C in 8 minutes
- Includes easy access rotor (24 x 1.5 mL) up to 17,135 x g
- Exceptionally quiet and compact
- Optional StripSpin adapter for 0.2 mL tubes and strips

SPECIFICATIONS

Speed range	500 to 15,000 rpm
Maximum RCF	17,135 x g
Maximum capacity	24 x 1.5/2.0 mL
Timer	0.5 to 99 minutes or continuous "Quick" button for momentary operation
Temperature range	-10° to 40°C
Dimensions (W x D x H)	10.9 x 17.75 x 9.75 in/27.7 x 45 x 24.75 cm
Weight	44 lb/20 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz

ORDERING INFORMATION

Catalog No.	Description
C2500-R-230V*	<i>Prism R</i> refrigerated microcentrifuge with 24 place rotor, 230V
C2400-SS	<i>StripSpin</i> adapter for 0.2 mL tubes and strips
C1205	Individual adapters for 0.5/0.6 mL tubes, pk of 6
C1206	Individual adapters for 0.4/0.25 mL tubes, pk of 6
C1222	Individual adapters for 0.2 mL thermal cycling tubes, pk of 6

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

Centrifuges - compact general purpose

Spectrafuge™ 6C

The *Spectrafuge 6C* has been designed for quick production of PPP (platelet poor plasma) or PRP (platelet rich plasma) as well as other applications in the clinical and research laboratory.

The removable rotor of the *Spectrafuge 6C* holds up to 6 x 15 mL conical tubes, and with adapters will accommodate most common blood draw tubes. The variable speed allows for a variety of applications to be performed. A timer controls operation from 30 seconds to 30 minutes or can be set to "hold" for continuous operation.

The control panel of the centrifuge features easy turn knobs and large digital displays for time and speed. During operation of the centrifuge, the lid is locked. Once the rotor has come to a stop, the lid knob can be pressed to unlock the lid and gain access to the samples.

A small footprint allows the *Spectrafuge 6C* to fit on even the most crowded bench. Its rugged construction will provide years of trouble free operation. The centrifuge can be operated on the bench or in a cold room.



CE

- Ideal for PPP and PRP production
- A Maximum speed 6,500 rpm/4,000 x g
- Digital control and accuracy
- Accepts 15 mL and most common blood draw tubes
- Small footprint
- Safe for cold room use

SPECIFICATIONS

Speed range	300 rpm to 6,500 rpm
Maximum RCF	4,000 x g
Maximum capacity	6 x 10/15 mL
Timer	1 - 30 min or continuous
Dimensions (W x D x H)	8.25 x 7 x 9.5 in/21 x 18 x 24 cm
Weight	10 lb/4.5 kg
Electrical	120V or 230V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.

Description

C0060-230V*

Spectrafuge 6C Centrifuge, complete with 6 x 10/15 mL rotor

C0200-17A

Adapter set for 5, 7 and 10 mL tubes, pack of 6

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

LIQUID HANDLING

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- MANUAL PIPETTES
- ELECTRONIC PIPETTES
- PIPETTE TIPS
- PIPETTE CONTROLLER



BioPette™ Plus Autoclavable Pipettes

These precision pipettes are designed with a finger hook for exceptional comfort and easy single-hand operation. Lightweight and well balanced, the *BioPette Plus* pipettes fit comfortably in either the right or left hand and offer very low plunger forces. Chemically resistant, maintenance-free seals and finely polished pistons provide unsurpassed accuracy sample after sample. The continuously adjustable, digital micrometer is slightly recessed with a volume lock to prevent unintentional change while pipetting.

For convenience, volume can also be adjusted by turning the push-button. Ergonomically positioned, the tip ejector reduces fatigue during prolonged use.

BioPette Plus pipettes have a universal shaft that will accept most pipette tips. The stainless steel tip ejector is adjustable to accommodate various styles of tips and removable for pipetting into narrow tubes. The *BioPette Plus* pipettes are fully autoclavable.

Eight models cover the volume range from 0.1 µl to 10,000 µl. A calibration tool is included with each unit for easy in-lab recalibration. Pipettes are individually tested and supplied with a certificate of quality.

- Superior accuracy and reproducibility in accordance with EN ISO 8655
- Continuously adjustable volume selection with Volume Lock
- Low plunger forces
- Adjustable and removable stainless steel tip ejector
- *BioPette Plus* four pack available



ACCURACY AND PRECISION

Volume Range	Accuracy	Precision
0.1-2.0 µl	±12 to ±1.5%	≤6.0 to ≤0.7%
0.5-10 µl	±4.0 to ±0.5%	≤4.0 to ≤0.4%
2-20 µl	±4.0 to ±0.8%	≤3.0 to ≤0.4%
10-100 µl	±1.6 to ±0.8%	≤0.8 to ≤0.3%
20-200 µl	±1.2 to ±0.6%	≤0.6 to ≤0.3%
100-1,000 µl	±0.9 to ±0.6%	≤0.45 to ≤0.25%
1,000-5,000 µl	±0.6 to ±0.5%	≤0.3 to ≤0.2%
1,000-10,000 µl	±2.5 to ±0.5%	≤0.6 to ≤0.2%



BioPette Plus 4 pack Starter Kit

ORDERING INFORMATION

Catalog No.	Volume range	Tip
P3942-2	0.1-2.0 µl	10 µl
P3942-10	0.5-10 µl	10 µl
P3942-20	2-20 µl	200 µl
P3942-100	10-100 µl	200 µl
P3942-200	20-200 µl	200 µl
P3942-1000	100-1,000 µl	1,000 µl
P3942-5000	1,000-5,000 µl	5,000 µl
P3942-10000	1,000-10,000 µl	10,000 µl
P3985-P	Universal carousel rack for six pipettes	
P3989	Universal linear rack for six pipettes	
P3986	Universal shelf clip for three pipettes	
P3942-SK4	<i>BioPette Plus</i> Four Pack starter kit containing 4 pipettes (0.5-10 µl, 2-20 µl, 20-200 µl and 100-1,000 µl), 3 racks of BioFree tips and a 6 place carousel stand	

BioPette™ Plus Autoclavable Multichannel Pipettes

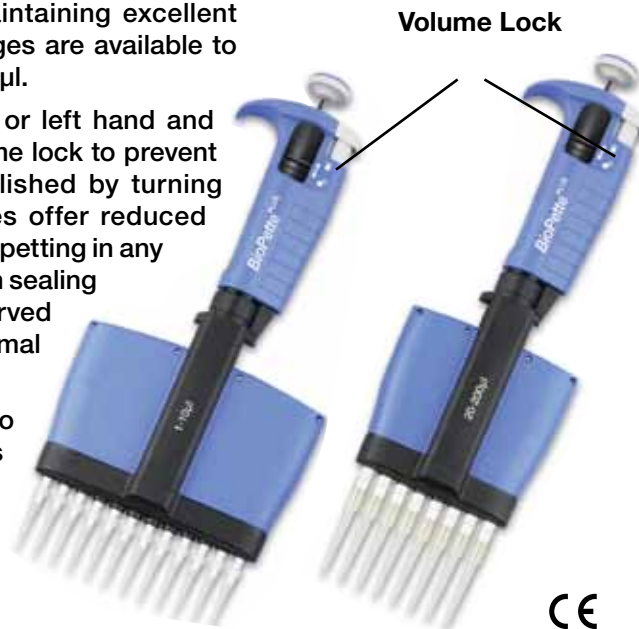
Ideal for all standard 96 well formats, the *BioPette Plus* Multichannel Pipettes stand up to the wear and tear of constant use while maintaining excellent accuracy and reproducibility. Four overlapping volume ranges are available to precisely meet liquid handling requirements from 1 µl to 300 µl.

The ergonomic handle fits comfortably in either the right or left hand and has a slightly recessed volume adjustment wheel with volume lock to prevent accidental change. Volume setting can also be accomplished by turning the push-button. The *BioPette Plus* Multichannel pipettes offer reduced pipetting forces. The manifold rotates 360° for comfortable pipetting in any direction. An individual piston suspension system allows even sealing of tips across all channels without rocking the pipette. The curved ejector design pushes the tips off in steps, thus requiring minimal force to operate.

Each channel has an independent, precision piston assembly to ensure accuracy and reproducibility from one pipetting series to the next as well as between channels.

Four volume ranges are available as both 8 and 12 channel models. Each pipette is individually tested and supplied with a certificate of quality and a calibration key. The *BioPette Plus* multichannel pipettes are fully autoclavable.

- Precision designed tip cones provide leakproof tip fit
- Continuously adjustable volume selection with thumbwheel or push-button
- Curved ejector bar reduces ejection force
- Fully autoclavable



Certified
ISO 9001

ACCURACY AND PRECISION

Volume Range	Channels	Accuracy	Precision
1-10 µl	8	±8.0 to ±2.0%	≤6.0 to ≤1.2%
5-50 µl	8	±4.0 to ±1.6%	≤2.5 to ≤0.6%
20-200 µl	8	±3.0 to ±1.0%	≤1.5 to ≤0.6%
50-300 µl	8	±1.6 to ±1.0%	≤1.5 to ≤0.6%
1-10 µl	12	±8.0 to ±2.0%	≤6.0 to ≤1.2%
5-50 µl	12	±4.0 to ±1.6%	≤2.5 to ≤0.6%
20-200 µl	12	±3.0 to ±1.0%	≤1.5 to ≤0.6%
50-300 µl	12	±1.6 to ±1.0%	≤1.5 to ≤0.6%

ORDERING INFORMATION

Catalog No.	Volume Range	Channels	Tip
P4808-10	1-10 µl	8	10 µl
P4808-50	5-50 µl	8	200 µl
P4808-200	20-200 µl	8	200 µl
P4808-300	50-300 µl	8	300 µl
P4812-10	1-10 µl	12	10 µl
P4812-50	5-50 µl	12	200 µl
P4812-200	20-200 µl	12	200 µl
P4812-300	50-300 µl	12	300 µl
P5423	Multichannel pipette stand. Holds one single or multichannel pipette		
P3989	Universal linear rack for six pipettes (maximum of four multichannel pipettes)		
P3986	Universal shelf clip for three pipettes		

BioPette™ Autoclavable Pipettes

These precision pipettes are designed for exceptional comfort and accuracy. Lightweight and well balanced, the *BioPettes* fit comfortably in either the right or left hand and offer a significant reduction in plunger forces. Chemically resistant, maintenance-free seals and finely polished pistons provide unsurpassed accuracy sample after sample. The continuously adjustable, digital micrometer is slightly recessed to prevent unintentional change and is protected from the effects of thermal expansion by the insulated body of the pipette. For convenience, volume can also be adjusted by turning the push-button. Ergonomically positioned, the tip ejector reduces fatigue during prolonged use.

BioPettes have a universal shaft that will accept most pipette tips. The stainless steel tip ejector is adjustable to accommodate various styles of tips and removable for pipetting into narrow tubes. The *BioPettes* are fully autoclavable.

Eight models cover the volume range from 0.1 µl to 10,000 µl. A calibration tool is included with each unit for easy in-lab recalibration. Pipettes are individually tested and supplied with a certificate of quality.

- Superior accuracy and reproducibility in accordance with EN ISO 8655
- Continuously adjustable volume selection with thumbwheel or push-button
- Reduced plunger forces
- Adjustable and removable stainless steel tip ejector
- New starter kit available



Certified
ISO 9001

CE

ACCURACY AND PRECISION

Volume Range	Accuracy	Precision
0.1-2.0 µl	±12 to ±1.5%	≤6.0 to ≤0.7%
0.5-10 µl	±4.0 to ±0.5%	≤4.0 to ≤0.4%
2-20 µl	±4.0 to ±0.8%	≤3.0 to ≤0.4%
10-100 µl	±1.6 to ±0.8%	≤0.8 to ≤0.3%
20-200 µl	±1.2 to ±0.6%	≤0.6 to ≤0.3%
100-1,000 µl	±0.9 to ±0.6%	≤0.45 to ≤0.25%
1,000-5,000 µl	±0.6 to ±0.5%	≤0.3 to ≤0.2%
1,000-10,000 µl	±2.5 to ±0.5%	≤0.6 to ≤0.2%



P3985



BioPette A 4 pack
Starter Kit

ORDERING INFORMATION

Catalog No.	Volume range	Tip
P3960-2A	0.1-2.0 µl	10 µl
P3960-10A	0.5-10 µl	10 µl
P3960-20A	2-20 µl	200 µl
P3960-100A	10-100 µl	200 µl
P3960-200A	20-200 µl	200 µl
P3960-1000A	100-1,000 µl	1,000 µl
P3960-5000A	1,000-5,000 µl	5,000 µl
P3960-10000A	1,000-10,000 µl	10,000 µl
P3985-P	Universal carousel rack for six pipettes	
P3989	Universal linear rack for six pipettes	
P3986	Universal shelf clip for three pipettes	
P3960-SK4	<i>BioPette A 4 Pack Plus</i> , starter kit containing 4 pipettes (0.5-10 µl, 2-20 µl, 20-200 µl and 100-1,000 µl), 3 racks of <i>BioFree</i> tips and a 6 place carousel stand	

Biopette™ Autoclavable Multichannel Pipettes

Ideal for all standard 96 well formats, the *Biopette* Multichannel Pipettes stand up to the wear and tear of constant use while maintaining excellent accuracy and reproducibility. Four overlapping volume ranges are available to precisely meet liquid handling requirements from 1 µl to 300 µl.

The pipettes fit comfortably in either the right or left hand and have a slightly recessed volume adjustment wheel to prevent accidental change. Volume setting can also be accomplished by turning the push-button. *Biopette* Multichannel pipettes offer reduced pipetting forces. The manifold rotates 360° for comfortable pipetting in any direction. An individual piston suspension system allows even sealing of tips across all channels without rocking the pipette. The curved ejector design pushes the tips off in steps, thus requiring minimal force to operate.

Each channel has an independent, precision piston assembly to ensure accuracy and reproducibility from one pipetting series to the next as well as between channels.

Four volume ranges are available as both 8 and 12 channel models. Each pipette is individually tested and supplied with a certificate of quality and a calibration key. The *Biopettes* are fully autoclavable.



Certified
ISO 9001



- Precision designed tip cones provide leakproof tip fit
- Continuously adjustable volume selection with thumbwheel or push-button
- Curved ejector bar reduces ejection force
- Fully autoclavable

SPECIFICATIONS

Volume Range	Channels	Accuracy	Precision
1-10 µl	8	±8.0 to ±2.0%	≤6.0 to ≤1.2%
5-50 µl	8	±4.0 to ±1.6%	≤2.5 to ≤0.6%
20-200 µl	8	±3.0 to ±1.0%	≤1.5 to ≤0.6%
50-300 µl	8	±1.6 to ±1.0%	≤1.5 to ≤0.6%
1-10 µl	12	±8.0 to ±2.0	≤6.0 to ≤1.2%
5-50 µl	12	±4.0 to ±1.6%	≤2.5 to ≤0.6%
20-200 µl	12	±3.0 to ±1.0%	≤1.5 to ≤0.6%
50-300 µl	12	±1.6 to ±1.0%	≤1.5 to ≤0.6%

ORDERING INFORMATION

Catalog No.	Volume Range	Channels	Tip
P4608-10A	1-10 µl	8	10 µl
P4608-50A	5-50 µl	8	200 µl
P4608-200A	20-200 µl	8	200 µl
P4608-300A	50-300 µl	8	300 µl
P4612-10A	1-10 µl	12	10 µl
P4612-50A	5-50 µl	12	200 µl
P4612-200A	20-200 µl	12	200 µl
P4612-300A	50-300 µl	12	300 µl
P5423	One position stand for single or multichannel pipettes		
P3989	Universal linear rack for six pipettes (maximum of four multichannel pipettes)		
P3986	Universal shelf clip for three pipettes		

FastPette V2™ and FastPette Plus™ Pipette Controllers

The *FastPette V2* and the *FastPette Plus* were designed with the user in mind. With a sleek, ergonomic handle design and contoured push buttons, the *FastPette V2* and the *FastPette Plus* fit comfortably in the hand even after long periods of use. An updated valve control system allows for very fine control. Both battery powered; *FastPette V2* works with glass and plastic pipettes in the 1 to 100 mL range. The *FastPette Plus* was designed for pipettes in the 0.5 to 100 mL range.

The aspiration speed can be set to high or low to adjust for the volume of the pipette and viscosity of the liquid. The suction can also be adjusted by the amount of pressure applied to the trigger button. Dispensing is carried out by gravity or supported by the pump, which empties the pipette with a blow out step.

The *FastPette V2* and the *FastPette Plus* are protected from liquids by both a PTFE filter and unique liquid blocking valve in the silicone pipette holder. To protect samples from cross contamination, the filter, nosepiece and pipette holder are easily exchanged and autoclaved.

The new *FastPette Plus* has a large LCD display that indicates the battery status along with the pipetting mode and speed. Its powerful battery provides over 8 hours of continuous use between charging. A universal power supply is included (US, EU, UK, and AU) as well as a convenient charging stand.

- Ergonomically designed
- Works with pipettes from 0.5 mL to 100 mL
- Pressure-sensitive trigger buttons for fine control over aspiration and dispensing rate
- Rechargeable NiMH battery
- UV resistant



SPECIFICATIONS

	<u>Fastpette V2</u>	<u>Fastpette Plus</u>
Weight	0.5 lb/0.21 kg	0.5 lb/0.21 kg
Battery life	2,000 pipetting cycles	8 continuous hours
Battery charging time	11 - 14 hours	12 - 14 hours
Autoclavability	Nosepiece, pipette holder and filter	Same
Pipette types	Glass or plastic, 1 to 100 mL	Glass or plastic, 0.5 to 100 mL
Electrical	230V~, 50 Hz or 120V~, 60 Hz	Same

ORDERING INFORMATION

Catalog No.	Description
P2000-230V*	<i>FastPette V2</i> with three 0.2 µm filters, wall hanger and charger, 230V
P2001	<i>FastPette Plus</i> Pipette Controller with charging stand, Universal Plug**
P2001-CS	Charging stand for <i>FastPette Plus</i> (included)
P2021	Replacement silicone pipette holder
P2023	PTFE autoclavable filter, 0.2 µm, pack of 5
P2024	PTFE autoclavable filter, 0.45 µm, pack of 5
P2028	Wall hanger for <i>FastPette V2</i>
P2029	Bench stand for <i>FastPette V2</i>

*When ordering 230V units, please specify cord type by adding -EU or -UK to the end of the catalog number. 120V units are available. When ordering, please specify by removing -230V from catalog number.
 ** Universal power supply is suitable for US, EU, UK, and AU plug configurations.

OVENS, INCUBATORS AND BATHS

Labnet
Labnet International, Inc.



- HYBRIDIZATION OVENS
- HYBRIDIZATION ACCESSORIES
- INCUBATORS
- SHAKING INCUBATORS
- DRY BATH INCUBATORS
- WATER BATHS
- HOTPLATES AND STIRRERS



ProBlot™ 12 and 12S Hybridization Ovens

Both the *ProBlot 12* and *12S* Hybridization Ovens utilize the proven rotisserie method for hybridization. In addition, the *ProBlot 12S* has a built-in shaker, making it a truly versatile incubator.

The rotisserie and incubation system in the *ProBlot* ovens provides the perfect conditions for consistent results with low background. Mechanical convection circulates air through the chamber to create an extremely uniform environment, while heat input is controlled by a microprocessor. An integral viewing area in the door allows for sample visualization without disrupting the temperature. The desired agitation level is obtained with the variable speed and adjustable axis rotisserie.

The integrated shaker in the *ProBlot 12S* has an orbit of 19 mm and a maximum speed of 300 rpm. Shaker operation is controlled by a 99 minute timer with a hold position. The standard shaking platform has a non-slip rubber mat for shaking plates, dishes and boxes.

Interiors are corrosion-resistant, mirrored stainless steel. The ovens are provided with a rotisserie that holds both 35 mm diameter bottles and 50 mL disposable tubes, a drip tray, two large bottles and a pack of hybridization mesh. Additional accessories can be purchased separately (see page 17).



- Precise temperature control and stability for reproducible results
- Variable speed, adjustable axis rotisseries hold 35 mm bottles and 50 mL tubes
- Durable stainless steel interior
- Integrated shaker (*ProBlot 12S* only)
- Optional accessories including rocking platforms and different sized rotisseries



SPECIFICATIONS

	<u>ProBlot 12</u>	<u>ProBlot 12S</u>
Bottle capacity	12 large/24 small	12 large/24 small
Rotisserie/rocker speed	4 to 20 rpm	4 to 20 rpm
Temperature range	Amb. +5° to 80°C	Amb. +5° to 80°C
Temperature control	Microprocessor	Microprocessor
Temp. resolution/uniformity	0.1°C/0.5°C	0.1°C/0.5°C
Shaker speed	N/A	20 to 300 rpm
Timer	N/A	0 - 99 min or hold
Exterior dimensions (WxDxH)	19 x 17.5 x 19.5 in/48.3 x 44.5 x 49.5 cm	19 x 17.5 x 19.5 in/48.3 x 44.5 x 49.5 cm
Chamber dimensions (WxDxH)	14.5 x 11 x 13.5 in/36.8 x 27.9 x 34.3 cm	14.5 x 11 x 13.5 in/36.8 x 27.9 x 34.3 cm
Weight	59 lb/26.8 kg	65 lb/29.5 kg
Electrical	230V~ or 120V~, 50/60 Hz	230V~ or 120V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
H1200A-230V*	<i>ProBlot 12</i> Hybridization Oven with 2 large bottles and one pack of mesh, 230V
H1200-SA-230V*	<i>ProBlot 12S</i> Hybridization Oven with built-in shaker, 2 large bottles, 1 pk mesh, 230V

Accessories for the ovens can be found on the following page.

*When ordering 230V units, please specify cord type by adding -EU or -UK to the end of the catalog number. 120V units are available. When ordering, please specify by removing -230V from catalog number.

ProBlot™ Hybridization Oven Accessories

ProBlot Hybridization Oven accessories include rocking platforms, shaking platforms (*ProBlot 12S* only), various rotisseries, different sizes of bottles and hybridization mesh.

Both of the *ProBlot* Hybridization Ovens will accept a rocking platform when the rotisserie is removed. The platform connects to the rotisserie hub and operates from the same controls as the rotisserie. Optional rotisseries include those for 1.5 mL, 15 mL and 50 mL disposable tubes, as well as 70 mm diameter glass bottles. Various shaker platforms are available for the *ProBlot 12S*.

Labnet's *ProBlot* hybridization bottles are constructed of high quality borosilicate glass which meets or exceeds the requirements for Class I, Type A glass of ASTM 438. Heavy walled, they block >95% of the beta emissions given off by ³²P. The high temperature caps have a rugged Teflon™ seal for leakproof performance, even after repeated use. The seals fit tightly into the caps and will not fall out when the caps are removed from the bottles. Bottles, caps and seals are resistant to all common hybridization reagents, including PEG. A convenient rack can be used for storing bottles upright when not in use.

Hybridization mesh, used to separate stacked membranes and aid in the flow of hybridization solutions between them, prevents membrane to membrane contact in areas of overlap and assists in the handling of blots. Labnet's hybridization mesh is made of an inert material that cleans up easily.



ProBlot Bottles and Mesh



H1200-RA



H1200-250A



ORDERING INFORMATION

Catalog No.	Description
H1200-RA	Rocking platform with attachment hardware
H1264-VA	Rotisserie for 64 x 1.5 mL or 32 x 15 mL, vertical
H1264-HA	Rotisserie for 64 x 1.5 mL or 32 x 15 mL, horizontally
H1200-250A	Flask platform with 6 x 250 mL flask clamps, for <i>ProBlot 12S</i> only
H1200-18	Universal platform for flask clamps (max. 2 x 1 L, 5 x 500 mL, 12 x 125 mL, 15 x 50 mL), for <i>ProBlot 12S</i> only
B3003	Large hybridization bottle, 300 x 35 mm
B3003-PC	Large hybridization bottle, 300 x 35 mm, plastic coated
B3003-DC	Large hybridization bottle, 300 x 35 mm, caps on both ends
B2503	Medium hybridization bottle, 250 x 35 mm
B1503	Small hybridization bottle, 150 x 35 mm
B1503-PC	Small hybridization bottle, 150 x 35 mm, plastic coated
B2753	Small hybridization bottle, two 75 mm chambers
B0753	Extra small hybridization bottle, 75 x 35 mm
B1500-CAP	Replacement cap with Teflon™ seal, fits all <i>ProBlot</i> 35 mm diameter bottles
B1500-SEAL	Replacement Teflon™ seal, pack of 10, fits all <i>ProBlot</i> 35 mm diameter bottle caps
H9088	Large hybridization mesh, 23 x 23 cm, pack of 5 sheets
H9089	Small hybridization mesh, 10 x 15 cm, pack of 5 sheets
H9090	Roll of hybridization mesh, 40 in x 5 yards (100 cm x 4.6 m)

211DS Digital Shaking Incubator: 4 x 1 L Capacity

A small footprint, compact, stackable design and expanded temperature range make the 211DS shaking incubator ideal for molecular biology and general use. The 211DS features an integrated orbital shaker, making it suitable for liquid cultures and other applications requiring shaking combined with strict temperature control.

Labnet's exclusive *SmartChek*[™] system guarantees precise temperature control. Mechanical convection maintains a stable temperature environment and provides quick recovery after opening the door. A settable safety thermostat is located on the back of the unit. The insulated door has a large glass observation panel and opens nearly 180° for easy access.

One half and two full shelves are supplied with the incubator. A flat platform, flask platform (clamps sold separately) and universal spring clamp platform are available separately.

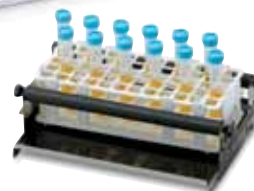
- Integrated digital orbital shaker
- Exclusive *SmartChek*[™] temperature control system
- Broad temperature range to meet a wide variety of applications
- Stacking design saves space



I5231



I5230
(clamps sold separately)



S2031-13 with K566



SPECIFICATIONS

Chamber volume	1.7 cu. ft./49 liters
Temperature range/display	Ambient +5° to 80°C in 0.1° increments/digital
Temp. uniformity/accuracy	±0.25°C/±0.1°C
Shaker speed	20 to 300 rpm
Shaker timer	0 - 99 min or continuous
Shaker orbit	19 mm
Flask capacity	4 x 1 L, 5 x 500 mL, 9 x 250 mL, 16 x 125 mL
Construction	Interior - mirrored stainless, exterior - cold rolled steel
Chamber (W x D x H)	13.5 x 14.75 x 15 in/34.3 x 37.5 x 38.1 cm
Exterior (W x D x H)	16.75 x 21.75 x 23 in/42.5 x 55 x 58 cm
Weight	83 lb/37.7 kg
Electrical	230V~ or 120V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
I5211-DS-230V*	Shaking Incubator, Model 211DS, 230V
I5211-SA	Stacking adapter, required when stacking incubators
I5230	Flask clamp platform, pre-drilled (see clamps below)
I5231	Flat platform with non-slip rubber mat (30 x 30 cm)
I5231-D	Double flat platform with non-slip rubber mat
S2031-13	Universal spring loaded clamp platform for flasks, bottles, etc., fits 211DS
S2040-85**	Flask clamp, 125 mL (max. 16)
S2040-99**	Flask clamp, 250 mL (max. 9)
S2040-09**	Flask clamp, 500 mL (max. 5)
S2040-01**	Flask clamp, 1000 mL (max. 4)
S2040-02**	Flask clamp, 2000 mL (311 DS only)

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

**Other sizes available, call for details.

311DS Digital Shaking Incubator: 4 x 2 L / 6 x 1 L Capacity

The 311DS is a high performance incubator with a built-in orbital shaker. A broad temperature range expands the use of this incubator to liquid cultures, washing blots and other shaking applications requiring precise temperature control.

Temperature within the 311DS is strictly regulated by the SmartChek™ temperature control system. All electronics are located away from the chamber to protect them from heat related stress and provide a long, maintenance-free service life.

The sturdy, integral shaker has a 19 mm orbit. A flat platform with non-slip rubber mat, as well as a variety of flask platforms are available separately. Platforms can hold as many as four 2 liter and six 1 liter flasks.

The gasketed door has a large, integral viewing area for checking samples without disturbing the chamber contents. Opening the door stops operation of the shaker.

The incubator is supplied with one shelf. Additional shelves and shaker platforms are sold separately.

- Built-in shaker with 19 mm orbit
- Exclusive SmartChek™ temperature control system
- Broad temperature range to meet a wide variety of applications
- Gasketed door with large, integral viewing area



I5331



SPECIFICATIONS

Chamber volume	2.5 cu. ft./71 liters
Temperature range	Ambient +5° to 80°C
Temp. uniformity/accuracy	±0.2°C @ 37°C
Temp. display	0.1°C
Shaker orbit/speed	19 mm/20 to 300 rpm
Timer	0 - 99 min or continuous
Dimensions (W x D x H)	
Chamber	17.4 x 15.6 x 16 in/44.2 x 39.6 x 40.6 cm
Exterior	22.6 x 21.4 x 25 in/57.4 x 54.4 x 63.5 cm
Weight	140 lb/63.6 kg
Electrical	230V~ or 120V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
I5311-DS-230V*	Shaking Incubator, Model 311DS, 230V
I5322	Additional shelf
I5331	Flat shaker platform with non-slip rubber mat
I5330	Shaking platform pre-drilled for flask clamps, clamps sold separately
I5330-2000	Platform with 4 x 2 L flask clamps
I5330-1000	Platform with 6 x 1 L flask clamps
I5330-500	Platform with 8 x 500 mL flask clamps
I5330-250	Platform with 12 x 250 mL flask clamps
I5330-125	Platform with 20 x 125 mL flask clamps
I5330-50	Platform with 30 x 50 mL flask clamps

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

Mini Incubator

The compact *Mini Incubator* offers a cost effective and space saving solution for incubating culture flasks, dishes, test tubes and plates. A broad temperature range meets a variety of small sample applications.

Even heating and uniformity within the chamber are ensured by the wrap-around heating elements. Control of heating and temperature stability are maintained by a hydraulic thermostat. A pilot light on the front panel indicates when the unit is heating. Users can accurately monitor the temperature within the chamber by placing a thermometer (available separately) in the port built-in to the top of the incubator.

A large plexiglass viewing area in the door of the *Mini Incubator* gives a clear view of the contents. Easy to clean shelves can be placed at three levels within the chamber. The corrosion resistant interior and dependable construction provide for a long, maintenance-free, service life.

The *Mini Incubator* can accommodate up to 48 Petri dishes or 28 standard 96 well plates. A cord port on the back allows small mixers, such as the Labnet *Mini LabRoller*, to be placed in the chamber. The *Mini Incubator* may also be ordered as a package that includes the *Mini Lab Roller* and rotisseries for 1.5, 15 and 50 mL tubes.

- Ideal for microbiology and hematology applications
- Wrap-around heating elements provide even heating
- Corrosion resistant chamber
- Cord port on back allows use of small mixers
- Three shelf positions



SPECIFICATIONS

Capacity	0.375 cu. ft. /9.2 L
Temperature range	Ambient +5° to 60°C
Controls	Analog
Stability	±0.6°C at 37°C (N.I.S.T. traceable thermometer)
Uniformity	0.65°C at 37°C
Dimensions (W x D x H)	
Exterior	11.2 x 11 x 13.2 in/28.5 x 28 x 33.5 cm
Interior	9 x 7.9 x 7.9 in/23 x 20 x 20 cm
Weight	18.4 lb/8.3 kg
Electrical	230V~ or 120V~, 50/60Hz

ORDERING INFORMATION

Catalog No.	Description
I5110A-230V*	<i>Mini Incubator</i> , 230V
I5110A-MLR-230EU	<i>Mini Incubator</i> with Mini Lab Roller and rotisseries for 1.5, 15 and 50 ml tubes, 230V, EU cord
I5110A-MLR-230UK	<i>Mini Incubator</i> with Mini Lab Roller and rotisseries for 1.5, 15 and 50 ml tubes, 230V, UK cord
I5110-SHELF	Additional shelf, 22 x 18 cm
W0020-110C	Non-toxic, Teflon coated thermometer for -20 to 110°C, with 1° resolution, 305 mm long, 76 mm immersion

*230V product includes both EU and UK power cords. For 120V units, remove -230V from end of catalog number.

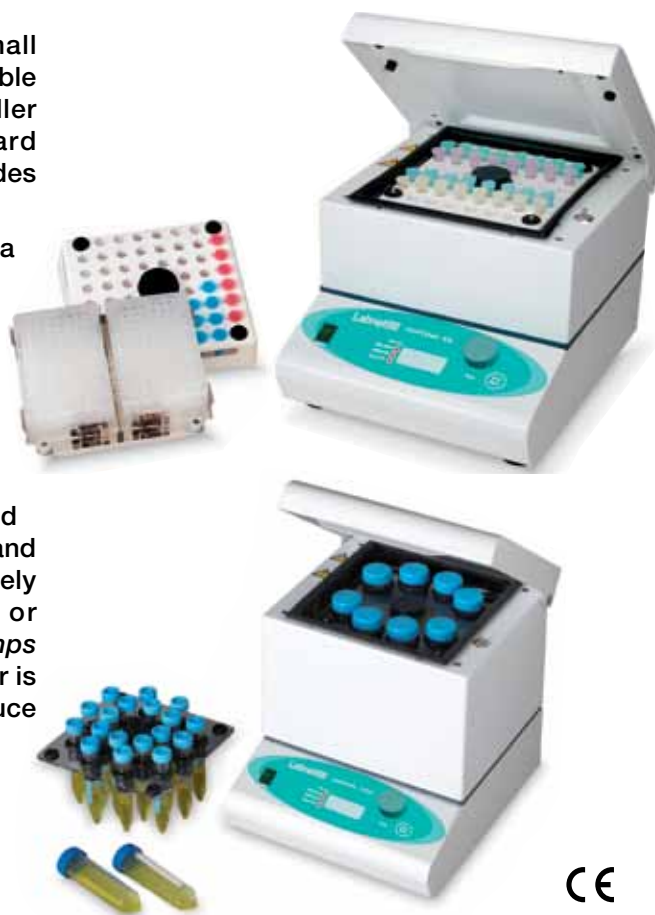
VorTemp 56™ and VorTemp 1550™ Shaking Incubators

Designed for simultaneous heating and mixing of small samples, the *VorTemp 56* is supplied with interchangeable platforms for microtubes (56 x 1.5 mL tubes, or smaller tubes with adapters) or microplates (accepts standard and deepwell plates, up to 2.0 mL). *VorTemp 1550* includes platforms for 8 x 50 mL and 18 x 15 mL tubes.

Temperature and shaking speed are adjustable over a broad range, making the *VorTemps* useful for a variety of applications, including bacterial cultures. Mechanical convection provides a uniform and stable environment. The shaker in the *VorTemp 56* may be turned off, allowing the unit to be used as a static incubator.

A microprocessor controls all parameters including temperature and timed operation. Self diagnostic software continuously monitors the unit for proper temperature and shaking speed, alerting the user to any errors. Heating and shaking are controlled by feedback loops which precisely maintain chosen parameters, independent of load or voltage fluctuations. The sturdy construction of the *VorTemps* provides stability during high speed shaking. The chamber is fully insulated to maintain uniform temperature and to reduce operating noise.

- Shake and incubate samples simultaneously
- Interchangeable platforms
- Broad temperature and speed range
- Intelligent control with digital LED display



CE

SPECIFICATIONS	VorTemp 56	VorTemp 1550
Temperature range	Ambient +5° to 99°C	Ambient +5° to 99°C
Temperature accuracy	±0.5°C	±0.5°C
Speed range	200 - 1,200* rpm	200 - 900 rpm
Motion/orbit	Circular/3 mm	Circular/3 mm
Timer	1 - 99 min or continuous	1 - 99 min or continuous
Capacity	56 x 1.5/2.0 mL tubes; 4 standard or 2 deep well microplates	18 x 15 mL; 8 x 50 mL tubes
Dimensions (W x D x H)	9 x 12.3 x 9 in/23 x 31 x 23 cm	10 x 12.3 x 12 in/26 x 31 x 31 cm
Weight	24.2 lb/11 kg	26.6 lb/12 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz	230V~, 50 Hz or 120V~, 60 Hz

*Maximum speed for 120V unit is 1,400 rpm

ORDERING INFORMATION

Catalog No.	Description
S2056A-230V*	<i>VorTemp 56</i> Shaking Incubator for microtubes and microplates, 230V
S2050A-230V*	<i>VorTemp 1550</i> Shaking Incubator for 15 and 50 mL tubes, 230V
S2056-R	Additional platform/workstation for microtubes
C1205	Individual adapters for 0.5/0.6 mL tubes, pk of 6
C1206	Individual adapters for 0.4 mL tubes, pk of 6
C1222	Individual adapters for 0.2 mL tubes, pk of 6

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

AccuBlock™ Digital Dry Baths

Labnet's single and dual block *AccuBlock* Digital Dry Baths provide users with digital performance and convenience at an analog price.

Useful for a variety of applications in molecular biology, histology, clinical, environmental and industrial settings, the dry baths feature a broad temperature range, up to 150°C, and excellent uniformity. A microprocessor regulates the high wattage heater to provide precise, accurate control and rapid heating. The stainless steel block chamber ensures an even transfer of heat from the heating element to the block. Temperature is easily set using arrow keys while the value is shown on the large display. The user calibration function allows for easy calibration to in-house standards when required.

The dry bath is available as a single or dual block model. Interchangeable blocks (sold separately on page 26) are available to accommodate a wide variety of tubes, plates and slides. Solid blocks are also available for custom machining.

Each dry bath is supplied with a block lifter that enables the user to exchange blocks easily, even when the block is hot.



- Precise microprocessor control
- Broad temperature range, to 150°C
- Large digital display
- Easy user calibration
- Single and dual block models

SPECIFICATIONS

Temperature range	Ambient +5° to 150°C, in 0.1° increments
Temperature resolution	0.1°C
Temperature uniformity	±0.2°C
Temperature accuracy	±0.3°C
Temperature control	Microprocessor
Block chamber construction	Stainless steel
Dimensions (W x D x H)	7.9 x 10.4 x 3.3 in/20 x 26.5 x 8.3 cm
Weight	4.8 lb/2.2 kg
Electrical	230V~ or 120V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
D1100-230V*	<i>AccuBlock</i> Digital Dry Bath, single block capacity, 230V
D1200-230V*	<i>AccuBlock</i> Digital Dry Bath, dual block capacity, 230V
See page 23 for available block formats	

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

Dry Bath Blocks

Designed for use with the *AccuBlock* Digital Dry Baths on the previous page, these blocks are supplied in a variety of different formats to accept tubes from 0.2 mL to 50 mL as well as microplates and slides. A solid block is also available for custom machining.

The blocks are made of high grade, non-porous aluminum and precision machined for a close fit with sample containers - important for fast and efficient heat transfer. Anodizing adds corrosion resistance.

Most blocks, except those designed for use with plates and slides, include a position for a thermometer and a hole for use with the block lifter tool (supplied with the bath). The unique *PopStopper* accessory, sold separately, fits on the microtube blocks to keep tube lids from popping open during heating.

The new *AccuRack*™ accessory accommodates 20 x 1.5 mL tubes and fits onto the D1105A block. The rack can be used to quickly transfer sample into and out of the block and is self standing. Insulated handles protect users fingers. The rack can be used at temperatures up to 150°C and is autoclavable.



- Corrosion resistant, anodized aluminum
- Blocks for tubes from 0.2 mL to 50 mL, plates and slides
- Precision machined for a close fit and efficient heat transfer
- Solid block available for custom machining

D1105A-Rack

SPECIFICATIONS

Construction	Anodized, high grade, non-porous aluminum
Thermometer well	Available in all blocks except those used with plates and slides
Compatibility	Labnet's high grade blocks will work in any manufacturers' dry bath with an opening of 3.05 x 3.60 inches. Block D1196-PCR requires a depth of 2.125 inches or less.

ORDERING INFORMATION

Catalog No.	Description
D1101	Solid Block for machining (no holes)
D1102	Block, 48 x 0.2 mL PCR tubes or 6 x 0.2 mL strips
D1102A	Block, 20 x 2.0 mL tubes
D1105	Block, 24 x 0.5 mL tubes
D1105A	Block, 24 x 1.5 mL tubes
D1105A-RACK	<i>AccuRack</i> accessory for 20 x 1.5 mL tubes, compatible with D1105A, pack of 3
D1106	Block, 35 x 6 mm tubes
D1110	Block, 20 x 10 mm tubes
D1112	Block, 20 x 12 mm tubes
D1113	Block, 20 x 13 mm tubes
D1115-TALL	Block, 12 x 15 mL centrifuge tubes
D1116	Block, 12 x 15 or 16 mm tubes
D1117	Block, 12 x 17 mm tubes
D1120	Block, 6 x 20 mm tubes
D1125	Block, 6 x 25 mm tubes
D1150-TALL	Block, 5 x 50 mL centrifuge tubes
D1196-PCR	Single Block, 96 well PCR plate, skirted or nonskirted (for single block unit only)
D1296	Dual Block, 96 well microtiter plate or 4 slides (for dual block unit only)
D1296-PCR	Dual Block, 96 well PCR plate, skirted or nonskirted (for dual block unit only)
D1100-PS	<i>PopStopper</i> for microtube blocks, D1102, D1102A, D1105, D1105A
D12384	Dual Block, 384 well PCR plate

AccuBlock™ Mini-Compact Dry Bath

The new *AccuBlock* Mini combines digital control, a fast heating microtube block and a convenient *AccuRack*™ transfer system, all in an ultra compact footprint. With a temperature range to 100°C which can be set in increments of 0.1°C, Labnet's *AccuBlock* Mini is suitable for a range of uses in life science, molecular biology, environmental and industrial laboratories and a variety of applications including incubation, enzyme reactions, and immunoassays. The small form factor allows it to find a place on even the most crowded laboratory benchtop and it is easy to transport.

The heating element is controlled by a microprocessor to provide precise and accurate control of the block temperature. The temperature is easily set in 0.1°C increments, using the soft touch buttons while values are shown on the easy to read 4 digit LCD display. A digital timer allows for continuous or timed operation and an audible signal alerts when timed application is complete. A built-in calibration mode allows end users to calibrate the bath as needed.

The precision machined aluminum block quickly reaches the set temperature and facilitates efficient transfer of heat to samples. The integral block accepts up to 12 x 1.5 mL tapered microcentrifuge tubes and there is also a thermometer well for temperature confirmation and calibration. The top surface of the block is covered to protect users from the hot block surface while the block itself is anodized to impart corrosion resistance.

The included *AccuRack*™ is designed to allow quick loading or unloading of all sample tubes simultaneously, improving efficiency. The rack fits conveniently onto the top of the unit and does not interfere with sample tube fitment. The *AccuRack* is self standing and can be used to hold samples while they are prepped or loading. Samples can be loaded directly into the *AccuBlock* Mini with the *AccuRack*.



- Accurate Temp Control to 100°C
- Precision LCD digital display
- *AccuRack* transfer rack included
- 12 x 1.5 mL tube capacity
- Compact and convenient

SPECIFICATIONS

Temperature range	Ambient +5° to 100°C
Temperature increments	0.1°C
Temperature uniformity	≤0.2°C
Temperature accuracy	≤0.2°C
Timer	0-19 hr 59 min or continuous
Block	Anodized Aluminum
Block capacity	12 x 1.5 mL tubes
Dimensions (W x D x H)	5.5 x 4.8 x 2.4 in/14 x 12 x 6 cm
Weight	3 lb/1.3 kg
Electrical	120V or 230V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
D0100-230V	<i>AccuBlock</i> Mini Digital Dry Bath, 12 x 1.5 mL, 230V, EU and UK Cord*

* For 120V units, remove -230V from end of catalog number.

6 Liter Mini Water Bath

Labnet's variable temperature 6 Liter Mini Water Bath is designed for molecular biology, biochemistry, tissue culture, microbiology and serology applications. Its small footprint and compact design make it ideal for personal use, small labs and classrooms.

The bath is heated by a powerful 550W heater, allowing for quick temperature adjustment. A hydraulic thermostat ensures accurate temperature control. Heating is indicated by a pilot light on the front panel.

For a long life and easy clean-up, the seamless chamber is constructed of corrosion resistant stainless steel. The included gable cover helps to retain heat in the bath, limit evaporation and is required for higher temperatures. A magnetic stainless steel clip is provided for suspending a thermometer from any location around the perimeter of the bath or through a cut-out in the gable cover.

The 6 Liter Mini Water Bath can accommodate various test tube racks and up to three 250 mL Erlenmeyer flasks.



- Ideal for small sample incubation
- Stainless steel, seamless chamber
- Stainless steel gable cover included
- Pilot light to indicate heating
- 550W heating power

SPECIFICATIONS

Temperature range	Ambient +5° to 100°C
Capacity	6 liter
Controls	Analog
Chamber construction	Stainless Steel
Exterior Dimensions (W x D x H)	14 x 11 x 13 in / 36 x 28 x 32 cm
Interior Dimensions (W x D x H)	12.6 x 6.7 x 6.9 in / 32 x 17 x 18 cm
Weight	17 lb / 7.7 kg
Electrical	230V, or 120V, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
W1106A-230V*	Mini Water Bath, 6 liter with stainless steel gable cover and thermometer clip, 230V
W0020-110C	Non-toxic, Teflon coated thermometer for -20 to 10°C, 1° resolution, 305 mm long, 76 mm immersion
K563**	Tube rack, 100 x 11 mm diameter holes (1.5/2.0 mL (109 x 263 x 45 mm), pk of 5
K564**	Tube rack, 90 x 13 mm diameter holes (105 x 246 x 73 mm), pk of 5
K565**	Tube rack, 60 x 16 mm diameter holes (105 x 246 x 72 mm), pk of 5
K566**	Tube rack, 40 x 20 mm diameter holes (105 x 246 x 72 mm), pk of 5

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

**Specify color by adding appropriate number to end of catalog number. -03 for white, -04 for blue, -06 for yellow and -10 for red

AccuPlate™ Hotplates, Stirrers and Hotplate Stirrers

Labnet's *AccuPlate* digital hot plates and stirrers are versatile, powerful and easy to use. Every unit is built for consistent performance and long term reliability. With three models to choose from, there is an *AccuPlate* to meet your lab's needs.

Each *AccuPlate* is equipped with a Pyroceram® ceramic top plate that is extremely durable, easy to clean and is highly resistant to chemical attack. In addition, the ceramic plates can reach higher temperatures (rated to 550°C) than metal topped units and the white color makes it easy to view color changes in applications such as titrations.

The *AccuPlate* Hotplate and Hotplate Stirrer models incorporate a powerful heating element positioned directly beneath the ceramic top plate. This provides optimal heat transfer to the plate and sample while minimizing heat transfer to the electronics and housing. The Stirrer and Hotplate Stirrer utilize a powerful motor drive system paired with strong permanent magnets to ensure a consistent connection to the stir bar. The control software is designed to minimize stir bar decoupling by regulating the acceleration rate of the motor.

The durable cast aluminum housing and angled faceplate protect the electronics in the event of an accidental spill. The Hotplate and Hotplate Stirrer models also feature a bright red "Hot Top" indicator to alert users that the ceramic top is too hot to touch – even if the heater is off, the light will remain on until the top has cooled to a safe temperature.

- Precise liquid temperatures and stirring speeds
- Digital display and safety indicators
- Angled front panel and large control knobs



SPECIFICATIONS	AccuPlate Hotplate	AccuPlate Stirrer	AccuPlate Hotplate Stirrer
Temperature range	5° - 550°C (41° - 1022°F)	N/A	5° - 550°C (41° - 1022°F)
Temperature accuracy	± 2°C	N/A	± 2°C
Speed range	N/A	60 - 1150 rpm	60 - 1150 rpm
Top plate material	Ceramic	Ceramic	Ceramic
Top plate size	12.7 x 17.8 cm (5" x 7")	12.7 x 17.8 cm (5" x 7")	12.7 x 17.8 cm (5" x 7")
Dimensions (W x D x H)	19.7 x 28 x 10.8 cm	19.7 x 28 x 10.8 cm	19.7 x 28 x 10.8 cm
Weight	2.7 kg (6.0 lbs.)	3.2 kg (7.0 lbs.)	3.2 kg (7.0 lbs.)
Electrical	230V, 50/60 Hz	230V, 50/60 Hz	230V, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
D0400-230V	AccuPlate Hotplate, 5" x 7" Ceramic top, 230V, EU and UK Cords
D0410-230V	AccuPlate Stirrer, 5" x 7" Ceramic top, 230V, EU and UK Cords
D0420-230V	AccuPlate Hotplate Stirrer, 5" x 7" Ceramic top, 230V, EU and UK Cords
D0461	Kit includes D0462, D0466 and Stir Bar retriever
D0462	External Temperature Probe (for D0400 and D0420)
D0463	Teflon® coated magnetic stir bar (1 x 2.5 cm)
D0464	Boss Head clamp - for holding D0465 at a 90° angle from D0466
D0465	Temperature probe (D0462) holding rod
D0466	Vertical Support Rod (two 22.8 cm rods which can be connected)

LABNET INTERNATIONAL, INC.

ELECTROPHORESIS AND MOLECULAR BIOLOGY

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- PLATE SEALER
- THERMAL CYCLERS
- GEL BOXES
- COMPLETE MINI-GEL SYSTEM
- POWER SUPPLIES
- TRANSILLUMINATOR



AccuSeal™ Semi Automated Plate Sealer

Labnet's new *AccuSeal* Semi Automated Plate Sealer is ideal for the low to medium throughput Laboratory that requires uniform and consistent sealing of microplates. Offering complete versatility, the *AccuSeal* will accept a full range of plates for PCR, assay or storage applications, and can be used for standard height to deep well plates. Operation is easy, sealing parameters are set and displayed via the user-friendly control panel, and the sealing operation is automated to guarantee consistent results.

Controls and Operation:

The *AccuSeal*'s Control System allows optimal settings for all types of plates and sealing material. Sealing Time (in 0.1 second increments), and Sealing Temperature (in 1.0°C increments) can be accurately set using the control knob. The *AccuSeal* also features a "No Heat" setting for pressure sealing applications.

Operation is simple: Place a microplate with a sealing film onto the drawer. Press the "SEAL" button and the motorized drawer will automatically close, the heated sealing platen will press down on the seal, and then the drawer will open to present the sealed plate.

Versatility and Convenience:

Labnet's *AccuSeal* can accept a variety of plate heights – the *AccuSeal* adapter is used for assay plates and PCR plates. The motorized heated platen adjusts automatically for different height plates, and provides uniform pressure to ensure a quality seal.

- Accepts a wide range of microplates and heat seals
- Large digital display shows all operating parameters
- Adjustable Sealing Temperature: 100°C to 190°C, or No Heat
- Precise temperature, timing and pressure for consistent sealing
- Compact footprint: only 6.75 inches (17cm) wide



CE

SPECIFICATIONS

Dimensions (W x D x H)	6.75 x 12.75 x 14.25 in/17.1 x 32.4 x 36.2 cm
Weight	27 lbs / 12 kg
Sealing Temperature	OFF, 100 °C to 190°C, (increments of 1.0°C)
Temperature Accuracy	+/- 1.0 °C
Temperature Uniformity	+/- 1.0 °C
Sealing Time	0.5 to 10 sec. (increments of 0.1 sec)
Compatible Plate Materials	PP (Polypropylene) PS (Polystyrene) PE (Polyethylene)
Compatible Plate Types	Standard Assay Plates, Deep-Well Plates, PCR Plates
Maximum Plate Height	45mm

ORDERING INFORMATION

Catalog No.	Description
PS1000-230V	<i>AccuSeal</i> Semi Automated Plate Sealer, includes adapters for standard and deepwell microplates, 230V includes EU ad UK Power cords
PS1000-PCR	<i>Accuseal</i> Adapter for sealing assay and PCR plates

MultiGene™ Gradient Thermal Cycler

Labnet's *MultiGene Gradient* Thermal Cycler produces consistent, reliable results while making gradient technology affordable. In addition, this unit is extremely simple to program, compact in design and built to perform.

The *MultiGene Gradient* can be programmed to operate with uniform temperature across the block for consistent results, or with a horizontal gradient for protocol optimization. Up to twelve temperatures can be evaluated at once.

Rapid heating and cooling of the precision machined sample block is achieved by six Peltier modules and controlled by a sophisticated algorithm. Programming is intuitive with the large display and graphical representation of the program steps. The software allows for a variety of programming features such as increasing and decreasing time and/or temperature during successive cycles.

The heated lid is fully adjustable to provide the proper pressure for use with different height tubes as well as plates. For optimum performance, the lid can be programmed to hold different temperatures. The lid slides away and back from the user to provide full access to samples and reduce the risk of users coming in contact with the hot surface.

- 96 well block with horizontal gradient
- Heated lid adjusts to tube or plate height
- Easy programming
- Lightweight and compact
- Reliable Peltier technology



CE



60 Well Block

SPECIFICATIONS

Sample Capacity	1 x 96 well plate 12 8 x 0.2 mL strip tubes 96 x 0.2 mL tubes 60 x 0.5 mL tubes	Programmable lid temperature	60° to 65°C, 100° to 115°C
Programmable temp. range	4°C to 99.9°C	Program memory	100 complete programs
Temperature control	Calculated or block	Temp. increments/decrements	Yes
Temp. accuracy/uniformity	±0.5°C/±0.5°C	Time increments/decrements	Yes
Heating/cooling method	Peltier	User program folders	Yes
Max. heating/cooling rate	3°C/2°C per second	Password protected programs	Yes
Gradient temperature range	30°C to 99°C	Communication	USB and RS232 ports
Maximum gradient	24°C	Dimensions (W x D x H)	24 x 42 x 25 cm
Gradient capability	96 well - 12 rows (horizontal) 60 well - 11 rows (horizontal)	Weight	9 kg
		Electrical	120V or 230V, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
TC9600-G-230V*	<i>MultiGene Gradient</i> Thermal Cycler with 96 well block, 230V
TC6000-G-230V*	<i>MultiGene Gradient</i> Thermal Cycler with 60 well block, 230V
TC96-NS-50	96 well plate, polypropylene, no skirt, pack of 100
TC96-ES-50	96 well plate, polypropylene, elevated skirt, pack of 50
TCST-02	0.2 mL tube strips, 8 tubes per strip, 125 strips
TCSC-02	Caps for above strips, 8 caps per strip, 125 strips
TC020-02-C	0.2 mL tubes with domed caps, clear, pack of 1,000
TC020-02-A	0.2 mL tubes with domed caps, assorted colors, pack of 1,000
TC96-CM-10	Compression mat, silicone, pack of 10
TC96-TT	Thermal sealing tape for 96 well plates, pack of 100 films
TC96-AS-100	Aluminum sealing tape for 96 well plates, pack of 100 films

*To order 120V units remove -230V from the end of the catalog number. 230V units includes -EU and -UK cords.

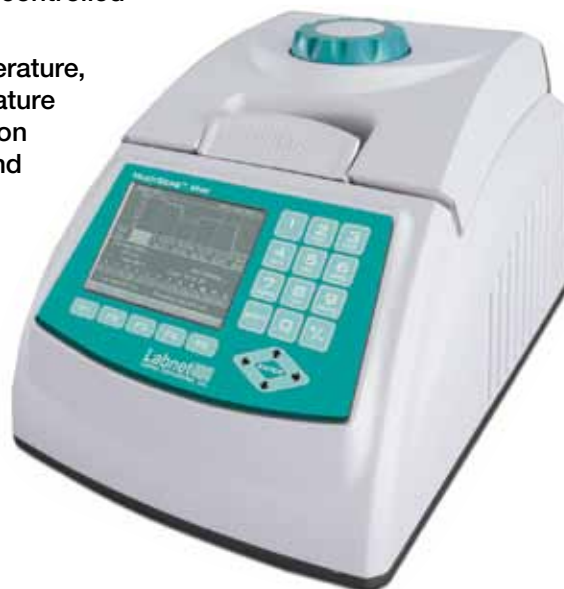
MultiGene Mini Personal Thermal Cycler

The *MultiGene Mini* combines a versatile and precise cycling unit with fast ramping, up to 5°C/second. Not limited to the amplification of nucleic acids, the unit is also useful for enzymatic digestion, ligation, and other procedures that require temperature controlled incubation of small samples.

In addition to the standard parameters of time and temperature, the software also allows for successive time and temperature increments and decrements (for touchdown amplification and auto-extension), auto-restart after a power failure, end of cycling elongation steps and extended soaks at 4°C.

Programming the *MultiGene Mini* is simple and intuitive. The control pad combines function keys, a key pad and arrow keys for easy navigation and entering of parameters. The large graphical display is easy to read.

The *MultiGene Mini* is available with either a 24 x 0.2 mL tube block or 18 x 0.5 mL tube block. Blocks are easily interchanged. The *MultiGene Mini* is supplied with a heated lid.



CE

- Two models: 24 x 0.2 mL tubes or 18 x 0.5 mL tubes
- Extremely fast ramping, up to 5°C/second
- Intuitive programming
- Lightweight and compact

SPECIFICATIONS

Block Capacity	24 x 0.2 mL or 18 x 0.5 mL tubes	Max. number segments	9
Temp. control range	4° to 99°C	Max. holding time/step	99 minutes 59 seconds
Max Heating/cool rate	5°C per sec/4°C per sec	Program storage	up to 100 programs
Accuracy/uniformity	±0.3°C/±0.5° at 55°C	Dimensions (W x D x H)	21.8 x 28.5 x 17.8 cm
Heated lid temperature	105°C	Weight	7.1 lb/3.2 kg
Max. number of cycles	99	Electrical	230V~ or 120V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
TC020-24-230V*	<i>MultiGene Mini</i> Personal Thermal Cycler with 24 x 0.2 mL tube block, 230V
TC050-18-230V*	<i>MultiGene Mini</i> Personal Thermal Cycler with 18 x 0.5 mL tube block, 230V

*230V product includes both -EU and -UK power cords. For 120V units, remove - 230V from end of catalog number.

Enduro™ Modular Vertical Gel System

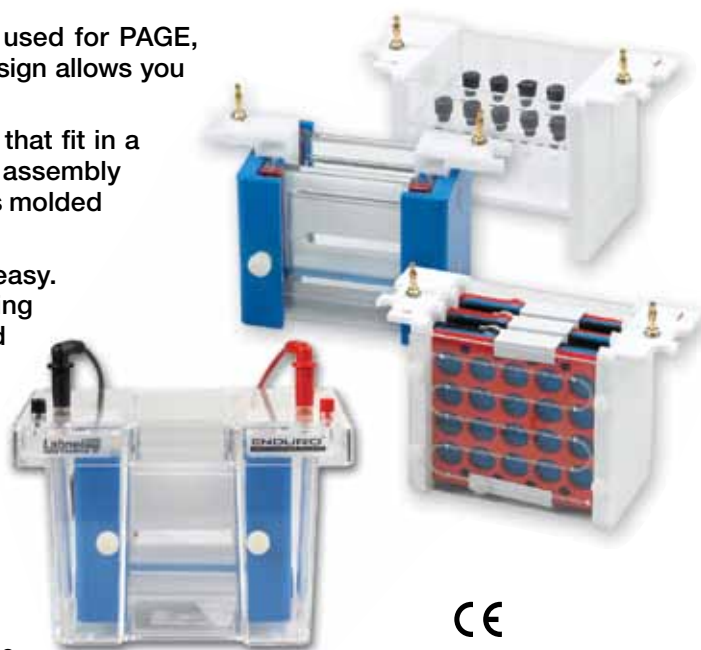
Labnet's *Enduro* Modular Vertical Gel System can be used for PAGE, electroblotting and 2D electrophoresis. The modular design allows you to purchase just the components you need.

The *Enduro* system consists of three functional inserts that fit in a common buffer tank. Each insert has its own electrode assembly which connects into the lid of the buffer tank. The tank is molded to prevent leaking and separation.

Set up of gels with the *Enduro* system is quick and easy. Gels are cast right in the insert with the aid of a casting stand. For electroblotting, gels are simply sandwiched in the blotting cassettes. Coiled electrodes in the insert generate a high intensity current allowing transfer to take place in about an hour. The tube gel insert has gasketed ports for easy insertion and removal of up to ten capillary tubes.

A variety of spacers, combs and other accessories are available to customize your *Enduro* gel system. A cooling pack is supplied for use during higher voltage or longer runs to keep gel temperature low and provide clear results. Four different *Enduro* packages are available, or components may be purchased separately.

- PAGE, Electroblotting and 2D Electrophoresis
- Easy and quick set up
- Modular design
- Wide range of accessories
- Accepts most precast gels, including Lonza™, Bio-Rad™ and Invitrogen™



SPECIFICATIONS

	<u>Enduro PAGE System</u>	<u>Enduro PAGE Electroblotting System</u>	<u>Enduro PAGE 2D System</u>
Gel Dimensions	10 x 10 cm	NA	8 cm long
Capacity	2 gels/run*	4 gels/transfer	10 tubes/run
Maximum samples	20 per gel	NA	10 (1/gel)
Tank (W x D x H)	19 x 13 x 15 cm	19 x 13 x 15 cm	19 x 13 x 15 cm
Buffer volume	250 mL	1200 mL	500 mL
Included items**	2 ea 10 x 10 notched plates 2 ea 10 x 10 plates w/spacers 2 ea 1 mm comb, 12 wells PAGE Module, casting base	4 ea blotting cassettes 8 ea fiber pads Blotting module, PAGE System	20 ea capillary tubes 20 ea tube supports 10 ea blocking plugs IEF module PAGE System

*Can run 4 gels by stacking the plates.

**Each system includes buffer tank, lid, leads and cooling pack. The Blotting and IEF Systems also include the PAGE components.

ORDERING INFORMATION

Catalog No.	Description
E2010-P	<i>Enduro</i> PAGE System, includes PAGE insert, buffer tank with leads and cooling pack
E2010-PB	<i>Enduro</i> PAGE Electroblotting System, includes the blotting insert and PAGE system components
E2010-P2	<i>Enduro</i> PAGE 2D System, includes 2D insert and PAGE System components
E2010-BT	<i>Enduro</i> Electroblotting system, includes tank, blotting insert & 3 cassettes
E2010-BM	Electroblotting Module only for use with <i>Enduro</i> PAGE System
E2010-2M	2D Electrophoresis Module only for use with <i>Enduro</i> PAGE System

Additional spacers, combs and plates are available. Contact your local representative or visit www.labnetlink.com for details and ordering information.

Enduro™ Horizontal Gel Boxes

The *Enduro* Horizontal Gel Boxes have been designed with safety and ease of use in mind. Constructed of quality materials, they stand up to every day use and provide a long, trouble-free service life.

The gel boxes are molded from UV transparent acrylic, for leakproof performance. Cassettes enclose the electrodes to protect them from breakage and allow for easy cleaning and replacement.

Rubber casting gates fit easily onto the gel trays for tape-free gel casting. Positioning slots on the sides of the trays hold combs in place while pouring gels. The supplied combs are 1.5 mm thick and are adjustable to control well depth.

Each gel tray is supplied with a guide that can be placed underneath to aid in visualizing wells when loading. The domed lid and drip ring prevent condensation from falling onto the gel.

The *Enduro* line includes a full range of sizes, from a compact mini system to a large system that accommodates as many as 450 samples. Additional gel trays and different sizes of combs are available as well as *Enduro*™ molecular weight markers.

- Molded, durable construction
- Rubber gates for easy, tapeless gel casting
- Adjustable height combs
- Loading guides aid in well visualization



Detail of gel tray, casting trays and combs



Enduro 7.7



Enduro 7.10



Enduro 10.10



Enduro 15.10

CE



Enduro 15.15



Enduro 20.20

SPECIFICATIONS AND ORDERING INFORMATION

	<u>Enduro 7.7</u>	<u>Enduro 7.10</u>	<u>Enduro 10.10</u>	<u>Enduro 15.10</u>	<u>Enduro 15.15</u>	<u>Enduro 20.20</u>
Gel (W x L cm)	7 x 7	7 x 10	10 x 10	15 x 10	15 x 15	20 x 20
Unit (W x L x H cm)	9 x 21 x 9	9 x 21 x 9	12.5 x 22 x 9	17.5 x 26.5 x 9	17.5 x 26.5 x 9	23 x 39.5 x 9
Buffer volume	225 mL	225 mL	300 mL	500 mL	500 mL	1,200 mL
Max sample capacity	32	64	100	140	210	450
Supplied combs	8 tooth (2)	8 tooth (3)	10* tooth (2)	16* tooth (1) 20 tooth (1)	16* tooth (1) 28* tooth (1) 20 tooth (1)	20 tooth* (2) 40 tooth* (2)
Catalog No.	E1007-7	E1007-10	E1010-10	E1015-10	E1015-15	E1020-20
R1000-10BP	Enduro MW Marker, 10 bp ladder (100-2,000 bp), 0.1 µg/µl, 500 µl vial					
R1000-1KB	Enduro MW Marker, 1 kb ladder (300-10,000 bp), 0.1 µg/µl, 500 µl vial					

*Denotes multichannel compatible combs

Enduro™ Gel XL - A Complete Electrophoresis System

The compact design of *Enduro Gel XL* results in a much smaller footprint than that of traditional gel boxes and power supplies. The 150V power supply connects directly into the gel box, eliminating tangled leads.

Casting gels is quick and easy - place the gel tray in the stand, slide the comb into the slots and pour. Combs are multichannel compatible and gel trays are UV transparent.

The molded gel tank provides leak-proof performance while the vented lid aids in dispersing heat. For safety, a magnetic sensor recognizes the presence or absence of the lid and allows current to flow accordingly.

Operating parameters are set digitally, including amperage and voltage with automatic crossover. A run can be paused at any time and the parameters changed. A micro casting set for four 6 x 6 cm gels available separately.



CE

- Gel tank with integrated, direct connect power supply
- Quick and easy gel casting
- Simple operation
- High throughput - up to 112 samples in the large gel

SPECIFICATIONS

Output voltage/current	10V to 150V/10 - 400 mA
Timer	0 - 99 hr or continuous, audible alert
Overall Dimensions (W x D x H)	10 x 6.7 x 2.5 in/24.5 x 17 x 6.2 cm
Gel Capacity	1 large (12.5 x 12 cm), 2 small (12.5 x 6 cm), 4 micro (6 x 6 cm)
Program memory	Last programmed parameters saved
Electrical	Universal 100V- 240V, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
E0160-230V*	<i>Enduro Gel XL</i> , with standard casting set (E0168), gel tank with safety lid and power supply
E0161	Large Gel Tray Set (12.5 x 12 cm), pack of 2
E0162	Small Gel Tray Set (12.5 x 6 cm), pack of 2
E0163	Micro Gel Tray Set (6 x 6 cm), pack of 4
E0164	Large Comb Set, 14/28 teeth, reversible, pack of 2
E0165	Micro Comb Set, 5/8 teeth, reversible, pack of 2
E0166	Micro Casting Set, includes 4 micro gel trays, 2 micro combs and a casting stand
E0167	Casting Stand, for all gel sizes
E0168	Standard Casting Set, includes 1 large and 2 small gel trays, 4 large combs and a casting stand

*When ordering 230V units, please specify cord type by adding -EU or -UK to the end of the product number. For 120V units, remove -230V from end of catalog number.

Enduro™ Power Supplies

The *Enduro* power supplies meet a wide range of applications for DNA, RNA and protein electrophoresis as well as blotting. Designed with safety in mind, they are loaded with features that today's applications demand. Two models are available to meet your needs. Operating modes include constant voltage, current or wattage (Model 250V only) with automatic crossover.

Operational parameters are easy to set using the membrane keypad and are displayed digitally on the large backlit LCD. The large display is visible from across the laboratory. The Model 250V features a 10 program memory. Programs can include up to 10 steps. Four sets of color coded output terminals allow multiple gels to be run simultaneously. In the event of a power failure, the Enduro units have an automatic recovery feature to maintain the previous settings.



- For DNA, RNA and protein electrophoresis and blotting
- Constant voltage, current or wattage modes
- Easy to program
- Compact, lightweight and stackable

SPECIFICATIONS

	Model 300V	Model 250V
Output voltage/range/increments	2-300V/1V	5-250-V/1V
Output current range/increments	4-500mA/1mA	10-3,000mA/10mA
Output power range/increments	90W max/na	1-300W/1W
Timer	1 min - 99 hr 59 min or continuous	1 min - 99 hr 59 min or continuous
Programmable	No	Yes, 10 steps/program, 20 program memory
Dimensions/WT	19 x 25 x 8 cm/2.2 kg	19 x 25 x 8 cm/2.5 kg
Input voltage	120 or 230V, 50/60Hz	120 or 230V, 50/60 Hz
Catalog No.	E0303-230V	E0203-230V

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

DyNA Light™ UV Transilluminator

- Large viewing surface - 21 x 26 cm
- Dual intensity for analytical and preparatory work
- Hinged, adjustable safety shield

SPECIFICATIONS AND ORDERING INFORMATION

Filter size	8.3 x 10.2 in/21 x 26 cm
UV light source wavelength	302 nm
Intensity settings	Normal - 100%, Low - 80%
Cabinet dimensions (W x D x H)	18.5 x 13.4 x 4.3 in/47 x 34 x 11 cm
Weight	21.6 lb/9.75 kg
Electrical	230V~, 60 Hz or 120V~, 50 Hz
Catalog No.	U1000-230V*

*230V product includes both -EU and -UK power cords. For 120V units, remove - 230V from end of catalog number.



SHAKERS AND ROCKERS

Labnet
Labnet International, Inc.



- VORTEXERS
- ORBITAL SHAKERS
- 3-D SHAKERS
- ROTATORS
- SHAKING INCUBATORS
- ROCKING PLATFORMS
- RECIPROCAL SHAKERS



VX-200 Vortex Mixer

The VX-200 Vortex Mixer features a true circular orbit for even distribution of vortexing across the entire speed range. Variable speed makes the unit useful for a variety of applications from gentle mixing to resuspending pellets.

The standard head supplied with the vortexer, the CombiCup™, will accommodate a single tube or a whole handful. The head is easily removed and replaced with optional heads that accommodate tubes of a variety of sizes as well as microplates.

An optimized counter balance enables the vortex mixer to be lightweight *and* stable during operation. The powerful motor provides efficient mixing and a long service life. Two modes allow for “touch” or continuous operation.

The VX-200 is safe for cold room or incubator use.

- True circular orbit for even vortexing
- Powerful motor for efficient mixing
- Two modes: “touch” or constant operation
- Optional heads for larger tubes, microtubes and microplates
- Safe for cold room or incubator use



SPECIFICATIONS

Speed range	230V: 0 - 2,850 rpm 120V: 0 - 3,400 rpm
Operating modes	Touch or continuous
Ambient operating range	+4° to 65°C
Dimensions (W x D x H)	5.5 x 6.3 x 5.1 in/14 x 16 x 13 cm
Weight	4.84 lb/2.2 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz

ORDERING INFORMATION

Catalog No.	Description
S0200-230V*	VX-200 Vortex Mixer with CombiCup head, 230V
S0200-20	3" flat head adapter, with dimpled mat
S0200-21	Optional head attachment for 24 x 1.5/2.0 mL tubes, 24 x 0.5 mL tubes and 32 x 0.2 mL tubes (or 4 tube strips)
S0200-22	Optional head attachment for 1 microplate or 64 x 0.2 mL tubes or 8 x 0.2 mL tube strips
S0200-23	Optional head attachment for 8 x 15 mL and 8 x 12/13 mm diameter tubes
S0200-24	Optional head attachment for 6 x 50 mL tubes
S0200-25	Optional head attachment for 12 x 1.5/2.0 mL tubes, held horizontally
S0200-26	Optional head attachment for 4 x 15 mL tubes, held horizontally
S0200-27	Optional head attachment for 2 x 50 mL tubes, held horizontally

*When ordering 230V units, please specify cord type by adding -EU or -UK to the end of the catalog number. 120V units are available. 120V units are available. When ordering, please specify by removing -230V from catalog number.

Orbit™ Digital Microtube and Microplate Shakers

The *Orbit M60*, *P2* and *P4* digital shakers feature variable speed across a broad range, making them useful for a variety of applications. Both time of operation and shaker speed are set digitally with a single knob with their values shown on the large 3-digit LED. A sturdy base encloses the motor for quiet, vibration-free operation. All three models can be used in temperature controlled environments. Their compact size makes them ideal for use in the incubators.

Orbit M60

Despite its small size, the *Orbit M60* can process up to 60 microtubes at one time. 1.5/2.0 mL tubes are accommodated directly while smaller tubes can be used with adapters, sold separately.

Orbit P2 and Orbit P4

These vortexers accept all standard microplates. (For higher capacity and deep well plates, please see *Orbit 300* on the following page.) Retaining springs on the contoured steel platform hold samples in place. The *Orbit P2* holds two microplates while the *Orbit P4* holds four.

- Large capacity - process 60 microtubes or 4 microplates
- 3 mm orbit for resuspending, homogenizing or vortexing
- Large digital display with single knob control
- Suitable for cold room or incubator use



CE



SPECIFICATIONS

Speed range*	100 - 1,200 rpm
Timer	0 - 99 min or continuous
Motion/orbit size	Circular, 3 mm
Maximum capacity	<i>M60</i> : 60 x 1.5/2.0 mL microtubes <i>P2</i> : 2 microplates <i>P4</i> : 4 microplates
Maximum load	0.66 lb/0.3 kg
Ambient operating range	+4° to 65°C
Base dimensions (W x D x H)	6.6 x 11 x 6 in/16.8 x 27.9 x 15.3 cm
Weight	9.5 lb/4.3 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz

*Maximum speed for 115V unit is 1,400rpm

ORDERING INFORMATION

Catalog No.	Description
S2020-M60-B-230V*	<i>Orbit M60</i> Digital Shaker with platform for 60 microtubes, 230V
S2020-R	Extra workstation/transfer rack for above
C1205	Individual adapters for 0.5/0.6 mL tubes, pk of 6
C1206	Individual adapters for 0.4 mL tubes, pk of 6
C1222	Individual adapters for 0.2 mL thermal cycling tubes, pk of 6
S2020-P2-B-230V*	<i>Orbit P2</i> Digital Shaker with platform for 2 microplates, 230V
S2020-P4-B-230V*	<i>Orbit P4</i> Digital Shaker with platform for 4 microplates, 230V

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

Orbit™ 300 Multipurpose Digital Vortexer

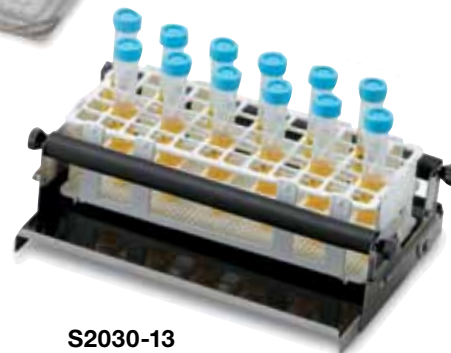
Three interchangeable platforms (available separately) accommodate a variety of sample containers to make the *Orbit 300* a truly multi-purpose vortexer. The flat platform, covered with a non-slip rubber mat, holds plates, dishes, boxes, etc. The microplate platform will accommodate up to four deep well microplates. The clamp platform has spring loaded retaining bars that adjust to hold flasks, bottles, racks and other containers in place.

Time and speed are set digitally with a single knob. Values are shown on the large, three digit LED. The broad speed range allows the *Orbit 300* to be used for gentle mixing as well as vigorous agitation.

The shaker housing is constructed of plastic; chemically resistant and easy to clean. This compact shaker can be used in temperature controlled environments making it ideal for cold room or incubator use.



S2030-10



S2030-13
and K566



- Three versatile stainless steel platform options
- 3 mm orbit for shaking, mixing or vortexing small volumes
- Large digital display with single knob control
- Safe for cold room or incubator use

SPECIFICATIONS

Speed range	100 - 1,200 rpm
Timer	0 - 99 min or continuous
Motion/orbit size	Circular, 3 mm
Maximum load	4.4 lb/2 kg
Ambient operating range	+4° to 65°C
Dimensions (W x D x H)	10.1 x 12.5 x 5 in/25.6 x 31.7 x 12.7 cm
Weight	16 lb/7.3 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz

ORDERING INFORMATION

Catalog No.	Description
S2030-300-B-230V*	<i>Orbit 300</i> Multipurpose digital Vortexer, without platform, 230V
S2030-10	Platform for four microplates
S2030-12	Flat platform (30 x 30 cm) with nonslip rubber mat
S2030-13	Spring loaded platform for flasks, bottles or tube racks, etc.
K564	Tube rack, pp, 90 x 13 mm diameter tubes, fits in S2030-13 platform, pack of 5
K565	Tube rack, pp, 60 x 16 mm diameter tubes, fits in S2030-13 platform, pack of 5
K566	Tube rack, pp, 40 x 20 mm diameter tubes, fits in S2030-13 platform, pack of 5

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

Orbit™ LS Low Speed Shaker

The *Orbit LS* low speed shaker is a high quality, general purpose shaker with economical analog control.

Styled after the other models in the line, the *Orbit LS* features a streamlined, compact design with easy-access control panel. Electronic controls are utilized for setting speed and time. The knobs used for selecting parameters turn easily and are clearly marked with corresponding values.

A large orbit and low speed make the *Orbit LS* useful for staining and destaining gels, washing blots and general mixing. The shaker is supplied with a 30 x 30 cm stainless steel flat platform and non-slip rubber mat to keep plates, dishes and other sample containers in place.

Safe for use in temperature controlled environments, the small profile of this shaker makes it ideal for use in incubators.



- Ideal for staining and washing of fragile gels
- Gentle motion prevents foaming of liquids
- Economical analog control with easy-turn knobs
- 19 mm orbit for blotting, gel staining and general mixing
- Safe for cold room and incubator use

CE

SPECIFICATIONS

Speed range	3 - 60 rpm
Timer	20 - 120 min (10 min inc.) or continuous
Motion	Circular, 19 mm
Maximum load	11 lb/5 kg
Ambient operating range	+4° to 70°C
Dimensions (W x D x H)	10 x 12.6 x 6.3 in/25.5 x 32 x 16 cm
Weight	14.5 lb/6.6 kg
Electrical	230V~ or 120V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
S2030-LS-B-230V*	<i>Orbit LS</i> Low Speed Orbital Shaker with flat platform (30 x 30 cm), 230V
S2031-12D	Two stacked platforms (30 x 30 cm) for use with <i>Orbit 1000/Orbit LS</i>
E2110-BBS	Blot box, 9.1 x 6.6 cm, 3-50 mL capacity for mini protein gels
E2110-BBL	Blot box, 11.7 x 8.9 cm, 6-10 mL capacity for larger mini protein gels

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

Orbit™ 1000 Multipurpose Digital Shaker

Four platform configurations allow the *Orbit 1000* Digital Shaker to meet a variety of shaking and mixing applications. Single and double flat platforms hold trays, plates and dishes. The double platform allows for expansion of the shaker capacity without increasing the footprint. The universal platform has spring loaded bars that adjust to fit flasks, bottles, tube racks and odd shaped containers. Pre-drilled to hold Erlenmeyer flask clamps (sold separately), the flask platform is ideal for mixing and growing cultures. Platforms are easily removable and interchangeable.

A powerful brushless motor and counter balanced shaker mechanism provide smooth operation and years of trouble-free use. Speed and time are set with the single knob, while the set and current values are displayed digitally. Speed is adjustable over a broad range to allow for applications such as staining and destaining gels, growth of bacterial cultures and hybridization. The *Orbit 1000* Digital Shaker is safe for use in temperature controlled environments. Platforms sold separately.

- Four stainless steel platform configurations
- 19 mm orbit for aeration of cultures and staining gels
- Large digital display with single knob control
- Safe for cold room or incubator use



Shown with S2031-18
(clamps sold separately)



S2031-13



S2031-12

SPECIFICATIONS

Speed range	20 - 300 rpm
Timer	0 - 99 min or continuous
Motion/orbit size	Circular, 19 mm
Maximum capacity	4 x 1 L, 5 x 500 mL, 9 x 250 mL, 16 x 125 mL
Maximum load	8.8 lb/4 kg
Ambient operating range	+4° to 65°C
Dimensions (W x D x H)	10.1 x 12.5 x 5 in/25.6 x 31.8 x 12.7 cm
Weight	16 lb/7.3 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz



ORDERING INFORMATION

Catalog No.	Description
S2030-1000-B-230V*	<i>Orbit 1000</i> Digital Shaker without platform, 230V
S2031-12	Flat platform with non-slip rubber mat (30 x 30 cm)
S2031-12D	As above, but two stacked platforms
S2031-13	Spring loaded platform for flasks, bottles or tube racks (see tube racks on page 38)
S2031-18	Flask clamp platform without clamps
S2040-25	Clamp for 25 mL Erlenmeyer flask (max. 16)
S2040-50	Clamp for 50 mL Erlenmeyer flask (max. 16)
S2040-85	Clamp for 125 mL Erlenmeyer flask (max. 16)
S2040-99	Clamp for 250 mL Erlenmeyer flask (max. 9)
S2040-09	Clamp for 500 mL Erlenmeyer flask (max. 5)
S2040-01	Clamp for 1,000 mL Erlenmeyer flask (max. 4)

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

Orbit™ 1900 High Capacity Shaker

The Orbit 1900 Shaker is designed for continuous duty and heavy loads. Its solid construction and counter balanced drive system provide vibration-free operation.

Operation of the shaker can be timed or continuous, while the speed is variable. Both time and speed are set digitally with a single knob. Values are shown on the large, three digit LED display.

Three heavy-duty stainless steel platforms are available to accommodate a variety of different sizes of sample containers. The flat platform is useful for trays, plates, boxes and other containers. A non-slip mat on the platform surface keeps items in place. Flasks are held on the flask platform through the use of clamps (sold separately). As many as five 2 L or six 1 L flasks can be shaken on the platform. A universal bar clamp platform adjusts to hold odd shaped containers. Suitable for use in an incubator or cold room.

- Three heavy-duty platform configurations
- 19 mm orbit for aeration and mixing of large samples
- Large digital display with single knob control
- Safe for cold room or incubator use



CE

SPECIFICATIONS

Speed range	20 - 300 rpm
Timer	0 - 99 min or continuous
Motion/orbit size	Circular, 19 mm
Maximum load	22 lb/10 kg
Ambient operating range	+4° to 65°C
Dimensions (W x D x H)	15.3 x 16.8 x 6.2 in/38.9 x 42.7 x 15.8 cm
Weight	46.2 lb/21 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz

ORDERING INFORMATION

Catalog No.	Description
S2040-1900-230V*	Orbit 1900 Digital Shaker, without platform, 230V
S2040-12	Flat platform with nonslip mat (40 x 50 cm)
S2040-15	Universal bar clamp platform for holding a variety of containers
S2040-18	Platform for flask clamps (clamps sold separately)
S2040-25	Clamp for 25 mL Erlenmeyer flask (max. 28)
S2040-50	Clamp for 50 mL Erlenmeyer flask (max. 28)
S2040-85	Clamp for 125 mL Erlenmeyer flask (max. 28)
S2040-99	Clamp for 250 mL Erlenmeyer flask (max. 20)
S2040-09	Clamp for 500 mL Erlenmeyer flask (max. 10)
S2040-01	Clamp for 1 L Erlenmeyer flask (max. 6)
S2040-02	Clamp for 2 L Erlenmeyer flask (max. 5)

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

GyroTwister™ 3-D Shaker

The three dimensional shaking motion of the *GyroTwister* is extremely efficient, yet gentle, making it ideal for general mixing as well as staining gels, hybridization and other applications.

Two versions are available: the *GyroTwister* and *GyroTwister Adjustable*. Both feature variable speed across a broad range. The tilt angle of the standard model is fixed while the pitch of the adjustable version is easily changed by turning the dial in the center of the platform.

The shakers are supplied with a 30 x 30 cm platform with non-slip mat as well as a dimpled mat for holding tubes. Larger platforms and a stacked standard platform configuration are available to increase shaker capacity. All platforms are made of corrosion resistant stainless steel to prevent bending and warping. The *GyroTwister* and *GyroTwister Adjustable* are safe for use in temperature controlled environments, from 4° to 65°C.



- Gyrotory action provides gentle, thorough mixing
- Ideal for staining gels, washing membranes and mixing samples in tubes
- Fixed angle and adjustable tilt models
- Safe for cold room or incubator use

CE

SPECIFICATIONS

Model	<u>GyroTwister</u>	<u>GyroTwister Adjustable</u>
Speed range	3 - 60 rpm	3 - 60 rpm
Timer	20 - 120 min or continuous	20 - 120 min or continuous
Motion/ Pitch	3D/fixed 7° pitch	3D/adjustable ±10°
Maximum load	11 lb/5 kg	11 lb/5 kg
Ambient operating range	+4° to 65°C	+4° to 65°C
Dimensions (W x D x H)	13 x 13.9 x 8.3 in 33 x 35.2 x 21 cm	13 x 13.9 x 8.3 in 33 x 35.2 x 21 cm
Weight	14.3 lb/6.6 kg	14.3 lb/6.6 kg
Electrical	230V~ or 120V~, 50/60 Hz	230V~ or 120V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
S1000-B-230V*	<i>GyroTwister</i> 3-D shaker with 30 x 30 cm non-slip platform and dimpled tube mat, 230V
S1000-A-B-230V*	<i>GyroTwister Adjustable</i> , as above, with adjustable tilt angle, 230V
S1000-30	Stacking platform, 30 x 30 cm, with hardware
S1000-40	Large platform 40 x 40 cm, with non-slip rubber mat
S1000-50	Extra large platform, 50 x 50 cm, with non-slip rubber mat
S1000-M	Dimpled mat, 30 x 30 cm, for holding tubes,
S2025-T	Elastic tie downs, pack of 4

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

GyroMini™ and Enduro™ MiniMix™ Nutating 3-D Mixers

The *GyroMini* and *Enduro Mini Mix* are small mixers that combine the motions of an orbital shaker and a rocker to produce a three dimensional action. This action provides thorough yet gentle mixing without foaming.

The pitch and speed of the *GyroMini* are fixed to provide the optimal motion for mixing and resuspending samples in small containers such as blood and centrifuge tubes. A dimpled mat on the platform surface holds tubes firmly in place. The mat will hold as many as 60 x 1.5 mL tubes, 30 pediatric blood tubes (3 mL), 21 standard blood tubes (7 mL), 17 x 15 mL tubes or 9 x 50 mL tubes.

The *Enduro MiniMix* has a pitch and speed that produces the perfect motion for processing western blots and staining gels. The tilt angle is large enough to provide thorough distribution of solutions, yet is small enough to keep the center of the blot from drying out. Minimal amounts of solution can be used, conserving valuable probes and antibodies. A non-slip mat holds blotting boxes in place on the platform.

Both shakers may be used in temperature controlled environments.

- Gyrotory action provides gentle, thorough mixing
- *GyroMini*: Perfect for centrifuge and blood tubes
- *Enduro MiniMix*: Designed for processing blots and staining gels
- Optimal fixed speed and pitch
- Safe for temperature controlled environments

Enduro Blot Boxes

- 2 sizes: medium and large
- Hinged lid and positive catch



CE

SPECIFICATIONS

	<u>GyroMini</u>	<u>Enduro MiniMix</u>
Speed range	20 rpm*	20 rpm*
Motion/Pitch	3-D/fixed 20°	3-D/fixed 5°
Maximum load	1.75 lb/0.8 kg	1.75 lb/0.8 kg
Ambient operating range	+4° to 65°C	+4° to 65°C
Dimensions (W x D x H)	9.5 x 6.75 x 6 in/24.1 x 17.15 x 15.24 cm	9.75 x 6.75 x 6 in/24 x 17.15 x 15 cm
Weight	1.9 lb/0.88 kg	1.9 lb/0.88 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz	230V~, 50 Hz or 120V~, 60 Hz

*Speed for 120V version is slightly different.

ORDERING INFORMATION

Catalog No.	Description
S0500-230V*	<i>GyroMini</i> 3-D shaker with dimpled rubber mat, 230V
S0600-230V*	<i>Enduro MiniMix</i> 3-D shaker with non-slip mat and two large blotting boxes, 230V
E2110-BBS	Blotting box, 9.1 x 6.6 cm, 3-5 mL gel capacity, for mini protein gels, 10/pack
E2110-BBL	Blotting box, 11.7 x 8.9 cm, 6-10 mL gel capacity, for larger mini protein gels, 10/pack

When ordering 230V units, please specify cord type by adding -EU or -UK to the end of the catalog number.
 *120V units are available. When ordering, please specify by removing -230V from catalog number.

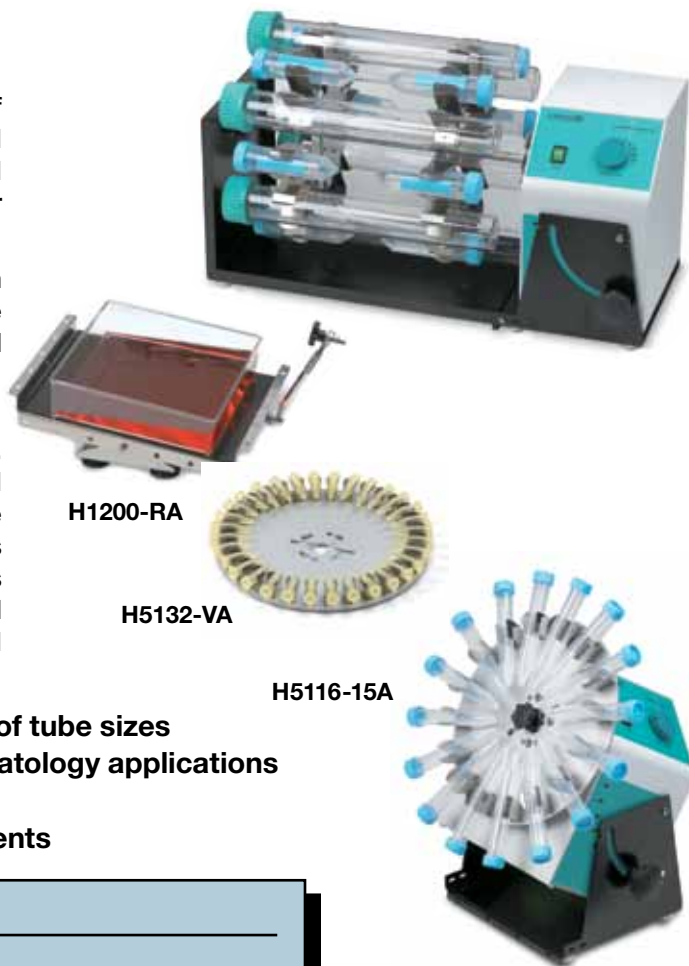
LabRoller™ Rotator

Labnet's *LabRoller* Rotators are ideal for a wide range of applications on the bench or in temperature controlled environments (from 4° to 65°C). Multiple rotisseries and carousels are available, including bottle rotisseries for hybridization and Western blotting.

Speed of rotation is adjustable from 3 to 60 rpm. When the rotators are used with carousels, the position of the rotation axis is adjustable from horizontal to a vertical position (90°). This allows for complete control over the level of agitation.

Two versions of the *LabRoller* Rotator are available. The standard model accepts rotisseries, carousels and a rocking platform. The compact version accepts the carousels and rocking platform. A variety of rotisseries and carousels are available to hold sample containers such as hybridization bottles, 15 and 50 mL tubes, blood tubes and Erlenmeyer flasks. Carousels may be stacked for higher sample capacity.

- Rotisseries and carousels available for a variety of tube sizes
- Useful for general mixing, hybridization and hematology applications
- Variable speed and adjustable rotation axis
- Safe for use in temperature controlled environments



H5100



SPECIFICATIONS

Speed range	3 to 60 rpm
Rotation axis	Adjustable, 0° to 90°
Ambient operating temperature	+4° to 65°C
Dimensions (W x D x H)	18.5 x 10.6 x 9.7 in/47 x 27 x 24.5 cm
Weight	17.6 lb/8 kg
Electrical	230V~ or 120V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
H5000-230V*	<i>LabRoller</i> Rotator (order rotisserie/carousel separately), 230V
H5100-230V*	Compact <i>LabRoller</i> Rotator (order carousel separately), 230V
H1200-RA	Rocking platform, fits both H5000 and H5100
H1212-35A	Rotisserie for 12 of 300 x 35 mm diameter bottles, 24 of 150 x 35 mm diameter bottles or 24 of 50 mL tubes horizontal, fits H5000 only
H1264-VA	Rotisserie for 64 x 1.5 mL or 32 x 15 mL, vertical, fits H5000 only
H1264-HA	Rotisserie for 64 x 1.5 mL or 32 x 15 mL, horizontal, fits H5000 only
H5108-50A	Carousel for 8 x 50 mL tubes, vertical, fits both H5000 and H5100
H5116-15A	Carousel for 16 x 15 mL tubes, vertical, fits both H5000 and H5100
H5132-HA	Carousel for 32 x 1.5 mL microtubes, horizontal, fits both H5000 and H5100
H5132-VA	Carousel for 32 x 1.5 mL microtubes and blood collection tubes or 16 x 15 mL conical tubes, vertical, fits both H5000 and H5100
H5250-4A	Carousel for 4 x 250 mL Erlenmeyer flasks, fits both H5000 and H5100
H5100-RODS	Carousel stacking rods, fits both H5000 and H5100

See page 17 for hybridization bottles and mesh. Higher capacity rotisseries available, please inquire.

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

Revolver™ Rotator and Mini LabRoller Rotator

Labnet's *Revolver* Rotator and the *Mini LabRoller* Rotator are both designed for mixing samples in both a horizontal and vertical plane. They meet a variety of needs in areas such as biochemistry, molecular biology, clinical and histochemistry. Both are compact and portable making them easily transported from cold room or incubator use.

The unique design of the Mini LabRoller Rotator allows the level of agitation to be adjusted from gently rotating, through two levels of tumbling, to end over end mixing simply by changing the rotisserie position. The Mini LabRoller is supplied with a rotisserie for 36 x 1.5/2.0 mL tubes with other optional rotisseries available.

Each rotisserie on the Revolver consists of two plates that can be adjusted independently of each other, thus allowing two types of motions to occur simultaneously in the same rotisserie. The molded housing and rotisserie assembly are designed for easy cleaning and decontamination.

A 36 x 1.5/2.0 mL rotisserie is supplied with the Revolver. Rotisserie plates may be mixed and matched. Assemblies are also available for 15/10/7/5 mL tubes as well as 50 mL tubes.

- Wide range of motions - from gentle rotating to end over end tumbling
- Safe for cold room and incubator use
- Useful for Molecular Biology, Histochemistry, Biochemistry and Clinical applications
- Compact and portable design



SPECIFICATIONS

Model	MiniLabRoller	Revolver Rotator
Speed range	Fixed, 20 rpm*	Fixed, 20 rpm**
Rotation axis	Adjustable, 0 to 90	Continuously adjustable, 0 to 90
Ambient operating temperature	+4 to 65 C	+4 to 65 C
Dimensions (W x D x H)	8.4 x 4 x 5 in/21.3 x 10.2 x 12.6 cm	9.4 x 5 x 6 in/23.9 x 12.7 x 15.24 cm
Weight	4 lb/1.8 kg	4.4 lb/2.0 kg
Electrical	230V~ or 120V~, 50/60 Hz *Speed for 120V unit is 24 rpm	230V~ or 120V~, 50/60 Hz **Speed for 120V unit is 18 rpm

ORDERING INFORMATION

Catalog No.	Description
H5500-230V*	Mini LabRoller Rotator with rotisserie for 36 x 1.5/2.0 mL tubes, 230V
I5110A-MLR-230V*	Mini LabRoller/Mini Incubator Combo, includes both units & the 3 rotisseries listed below, 230V
H5500-02	Rotisserie for 36 x 1.5/2.0 mL tubes (supplied with unit)
H5500-15	Rotisserie for 10 x 15 mL conical tubes (or 15-16 mm dia) and 12 x 12 -13 mm dia tubes
H5500-50	Rotisserie for 6 x 50 mL tubes
H5600-230V*	Revolver Rotator with rotisserie for 36 x 1.5/2.0 mL tubes, 230V
H5600-02	Rotisserie assembly for 36 x 1.5/2.0 mL tubes (supplied with unit)
H5600-15	Rotisserie assembly for 10 x 15 mL conical tubes (15 - 16 mm dia)
H5600-50	Rotisserie assembly for 60 x 50 mL tubes

*To order product in 120V, remove -230V from the end of the catalog number.
When ordering, please specify cord type by adding -EU or -UK to the end of the catalog number.

VorTemp™ 56 and VorTemp 1550 Shaking Incubators

Designed for simultaneous heating and mixing of small samples, the *VorTemp 56* is supplied with interchangeable platforms for microtubes (56 x 1.5 mL tubes, or smaller tubes with adapters) or microplates (accepts standard and deepwell plates, up to 2.0 mL). *VorTemp 1550* includes platforms for 8 x 50 mL and 18 x 15 mL tubes.

Temperature and shaking speed are adjustable over a broad range, making the *VorTemps* useful for a variety of applications, including bacterial cultures. Mechanical convection provides a uniform and stable environment. The shaker in the *VorTemp 56* may be turned off, allowing the unit to be used as a static incubator.

A microprocessor controls all parameters including temperature and timed operation. Self-diagnostic software continuously monitors the unit for proper temperature and shaking speed, alerting the user to any errors. Heating and shaking are controlled by feedback loops which precisely maintain chosen parameters, independent of load or voltage fluctuations. The sturdy construction of the *VorTemps* provides stability during high speed shaking. The chamber is fully insulated to maintain uniform temperature and to reduce operating noise.



- Shake and incubate samples simultaneously
- Interchangeable platforms
- Broad temperature and speed range
- Intelligent control with digital LED display



SPECIFICATIONS

	<u>VorTemp 56</u>	<u>VorTemp 1550</u>
Temperature range	Ambient +5° to 99°C	Ambient +5° to 99°C
Temperature accuracy	±0.5°C	±0.5°C
Speed range	200 - 1,200* rpm	200 - 900 rpm
Motion/orbit	Circular/3 mm	Circular/3 mm
Timer	1- 99 min or continuous	1 - 99 min or continuous
Capacity	56 x 1.5/2.0 mL tubes; 4 standard or 2 deep well microplates	18 x 15 mL; 8 x 50 mL tubes
Dimensions (W x D x H)	9 x 12.3 x 9 in/23 x 31 x 23 cm	10 x 12.3 x 12 in/26 x 31 x 31 cm
Weight	24.2 lb/11 kg	26.6 lb/12 kg
Electrical	230V~, 50 Hz or 120V~, 60 Hz	230V~, 50 Hz or 120V~, 60 Hz

*Maximum speed for 120V unit is 1,400 rpm

ORDERING INFORMATION

Catalog No.	Description
S2056A-230V*	<i>VorTemp 56</i> Shaking incubator for microtubes and microplates, 230V
S2050A-230V*	<i>VorTemp 1550</i> Shaking incubator for microtubes and microplates, 230V
S2056-R	Additional platform/workstation for microtubes
C1205	Individual adapters for 0.5/0.6 mL tubes, pk of 6
C1206	Individual adapters for 0.4 mL tubes, pk of 6
C1222	Individual adapters for 0.2 mL tubes, pk of 6

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

ProBlot™ Rocker 25 and 25XL

The Labnet compact rockers, *ProBlot 25* and *25XL*, are ideal for staining, hybridization and general mixing. Their basic design and economical price makes them a great value for any laboratory.

Rocking speed is adjustable to provide the gentle motion required for staining fragile gels as well as the more vigorous action necessary for washing blots. The rocking movement is fixed at 7°.

The platform surfaces are covered with non-slip rubber pads to prevent sample containers from moving during operation. Elastic tie downs are available to secure bags, boxes, tubes and other containers in place. The *ProBlot 25* platform measures 26 x 20 cm, while the *ProBlot 25XL* platform is significantly larger at 30 x 30 cm. For increasing the work area without sacrificing valuable bench space, double platform models are available.

The *ProBlot 25* and *25XL* Rockers can be used safely in temperature controlled environments up to 65°C. Their low profile and compact size make them perfect for use in incubators.

- Designed for staining, hybridization, washing, etc.
- Variable rocking speed
- Compact size, low profile
- Large, corrosion resistant stainless steel platforms
- Safe for cold room or incubator use



CE

SPECIFICATIONS

Speed settings	5 - 120 tilts/min
Timer	0 - 2 hr or continuous
Motion	Rocking
Tilt range	Fixed 7°
Clearance between platforms	3.5 in/9 cm
Maximum load	11 lb/5 kg
Ambient operating range	+4° to 65°C
Dimensions (W x D x H)	
<i>ProBlot 25</i>	11.4 x 12.6 x 5.7 in/29 x 32 x 14.5 cm
<i>ProBlot 25XL</i>	12.8 x 14.2 x 5.7 in/32.5 x 36 x 14.5 cm
Weight	11.7 lb/5.3 kg
Electrical	230V~, 50/60 Hz 120V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
S2025-B-230V*	<i>ProBlot Rocker 25</i> with single platform (26 x 20 cm), 230V
S2025-D-B-230V*	<i>ProBlot Rocker 25D</i> with double platform (26 x 20 cm), 230V
S2025-XL-B-230V*	<i>ProBlot Rocker 25XL</i> with large single platform (30 x 30 cm), 230V
S2025-XLD-B-230V*	<i>ProBlot Rocker 25XLD</i> with large double platform (30 x 30 cm), 230V
S2025-T	Elastic tie downs, pack of 4

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

Pro 30 Reciprocal Shaker

Labnet's *Pro 30* Shaker features a left to right linear action to provide gentle to vigorous shaking. Four platform configurations make this model valuable for a variety of applications.

Modern styling gives the *Pro 30* a small footprint and easy-access control panel. Speed and time are electronically controlled while their values are set with easy turn knobs.

The four platform configurations include a large 30 x 30 cm flat platform with non-slip rubber mat to hold sample containers in place. For added capacity, a stacked double platform is also available. The spring loaded universal platform holds tube racks, bottles and odd shaped containers. Flasks up to 1 L can be shaken on the flask clamp platform. Pre-drilled to hold a variety of different sized clamps, the platform and clamps are sold separately. Platforms are easily interchanged.

The *Pro 30* is safe for use in temperature controlled environments. Compact in size, it will fit in many incubators.

- Four stainless steel platform options
- Reciprocal motion for staining, washing blots and general mixing
- Perfect for large volume agitation in flat containers or separating funnels
- Safe for cold room and incubator use



Shown with S2031-12



S2031-13



S2031-18
(clamps sold separately)



SPECIFICATIONS

Speed range	6 - 150 strokes/min
Timer	20 - 120 min (10 min inc.) or continuous
Motion	Linear, 30 mm stroke length
Maximum load	11 lb/5 kg
Ambient operating range	+4° to 70°C
Dimensions (W x D x H)	10 x 12.6 x 6.3 in/25.5 x 32 x 16 cm
Weight	14.5 lb/6.6 kg
Electrical	230V~ or 120~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
S2030-RC-B-230V*	<i>Pro 30</i> Reciprocal Shaker without platform, 230V
S2031-12	Flat platform with non-slip rubber mat (30 x 30 cm)
S2040-12D	As above, but two stacked platforms
S2031-13	Spring loaded platform for flasks, bottle or tube racks (see tube racks on page 36)
S2031-18	Flask clamp platform without clamps, pre-drilled
S2040-85	Clamp for 125 mL flask (max. 16)
S2040-99	Clamp for 250 mL flask (max. 9)
S2040-09	Clamp for 500 mL flask (max. 5)
S2040-01	Clamp for 1 L flask (max. 4)

*230V product includes both -EU and -UK power cords. For 120V units, remove -230V from end of catalog number.

RACKS, BOXES AND PLATES

Labnet
Labnet International, Inc.



- TUBE STORAGE BOXES
- TUBE RACKS
- SAMPLE COOLERS
- STAINING TRAYS



50 Place Microtube Box with Hinged Lid, PP

Ideal for sample storage, these polypropylene boxes can be used in the freezer (to -80°C) or autoclaved. The easy open lid with living hinge and positive catch keeps samples securely in place. The translucent lid is alphanumerically labeled. Boxes available for 1.5/2.0 mL and 0.5 mL tubes. R7901 also holds cryovials and chromatography vials.



ORDERING INFORMATION

Catalog No.	Description	Qty
R7901	Storage box with hinged lid, blue, 50 x 1.5/2.0 mL (142 x 80 x 46 mm)	each
R7906	Storage box with hinged lid, blue, 50 x 0.5 mL (120 x 70 x 37 mm)	each

50 Place Box with Telescoping Lid, PP

Tubes of varying lengths are accommodated by the telescoping lids of these boxes. Made of polypropylene, they can be used for freezer storage and autoclaved. Lids are alphanumerically labeled. Boxes hold 0.5 mL, 1.5/2.0 mL and 5 mL tubes as well as cryovials and chromatography vials. Freezer storage racks and numeric ID grids are available for the 1.5/2.0 mL boxes.



ORDERING INFORMATION

Catalog No.	Description	Qty
R7900	Storage box with telescoping lid, 50 x 1.5/2.0 mL (143 x 75 x 45 mm)	each
R7905	Storage box with telescoping lid, 50 x 0.5 mL, 122 x 62 x 33 mm)	each
R7900A	Numeric indexing grids for R7900 and R8600 boxes	25

100 Place Microtube Box with Hinged Lid, PP

Polypropylene boxes withstand freezing (to -80°C) and autoclaving. The 3-point hinge maintains its integrity during repeated use. A positive catch keeps the lid securely fastened. Alpha-numeric indexing is printed inside the boxes for easy sample ID, and the clear lid allows visibility even when the lid is closed. Boxes are available in a variety of colors for coding samples and hold one hundred 1.5/2.0 mL tubes, cryovials or chromatography vials. Measure 42 x 142 x 55 mm. A solid black box is available for light sensitive samples.



ORDERING INFORMATION

Catalog No.	Description	Qty.
R8300	Storage box with hinged lid, natural, 100 x 1.5/2.0 mL	each
R8300-BLK	As above, but in opaque black for light sensitive samples	each
R8300-X*	As above in green (-G), blue (-B), pink (-P), orange (-O) or yellow (-Y)	each
R8300-A	Rainbow pack, includes one box of each above color	5
R8315	Vertical freezer rack for 9 boxes, fits chest type freezers	each
R8316	Horizontal freezer rack for 8 boxes, fits upright freezers	each

*Substitute the appropriate letter for "X" in the catalog number.

Clear Microtube Rack

This sturdy rack withstands the stresses of everyday use. Constructed of a durable, proprietary plastic, the rack is clear, autoclavable and unbreakable. The open bottom allows for use in ice baths. Two sizes are available to hold 0.5 mL and 1.5/2.0 mL tubes.



ORDERING INFORMATION

Catalog No.	Description
C7871	Microtube rack, clear, 40 x 0.5 mL tubes (200 x 75 x 40 mm)
C7872	Microtube rack, clear, 40 x 1.5/2.0 mL tubes (200 x 75 x 40 mm)

Microtube Workstation Rack, PP

Two levels and wide spacing provide easy sample access and visibility. Molded from durable, autoclavable polypropylene, the rack has non-skid rubber feet. Tube positions are numbered, 1 to 20, for organizing samples.



ORDERING INFORMATION

Catalog No.	Description
C8210	Microtube support rack, red, 20 x 1.5/2.0 mL tubes (210 x 75 x 35mm)

Large Capacity Test Tube Rack, PP

Constructed of polypropylene, these racks will not rust or deform. They can be frozen or autoclaved and fold flat for storage. Open design is ideal for use in a waterbath. An alphanumeric grid is located on the top surface. Available in white, blue, yellow and red for color coding.



ORDERING INFORMATION

Catalog No.	Hole dia. (mm)	Tube capacity	Format	Dimensions (mm)	Pack of
K564	13	90	6 x 15	105 x 246 x 64	5
K565	16	60	5 x 12	105 x 246 x 72	5
K566	20	40	4 x 10	105 x 246 x 72	5
K567	25	40	4 x 10	125 x 295 x 85	5
K568	30	24	3 x 8	112 x 300 x 85	5

Please specify color when ordering: white -03, blue -04, yellow -06 or red -10



100 Place Styrofoam Storage box

Made from recyclable, expanded polystyrene, this box is ideal for freezer storage of enzymes and other delicate samples. Alphanumerically labeled, it will hold one hundred 1.5/2.0 mL tubes. A finger notch on the side aids in opening the box. Measures 340 x 97 x 64 mm.



ORDERING INFORMATION

Catalog No.	Description	Qty.
R8000	Styrofoam storage box, 100 x 1.5/2.0 mL	each

DyNA Chill™ Benchtop Cooler

Small enough to fit in the palm of your hand, the DyNA Chill holds 12 x 1.5/2.0 mL tubes. Ideal for storage of enzymes and transporting of samples, this portable cooler requires no ice. Proprietary refrigerant in the sides, bottom and lid surrounds samples in cold. The DyNA Chill is available in two versions, 0°C and -15°C. Both will keep samples cold for eight hours or longer.



ORDERING INFORMATION

Catalog No.	Description	Qty.
D3500	DyNA Chill portable cooler for 12 x 1.5/1.0 mL tubes, 0°C	each
D3501	DyNA Chill portable cooler for 12 x 1.5/2.0 mL tubes, -15°C	each
C1205	Adapters for 0.5 mL tubes	pack of 6

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