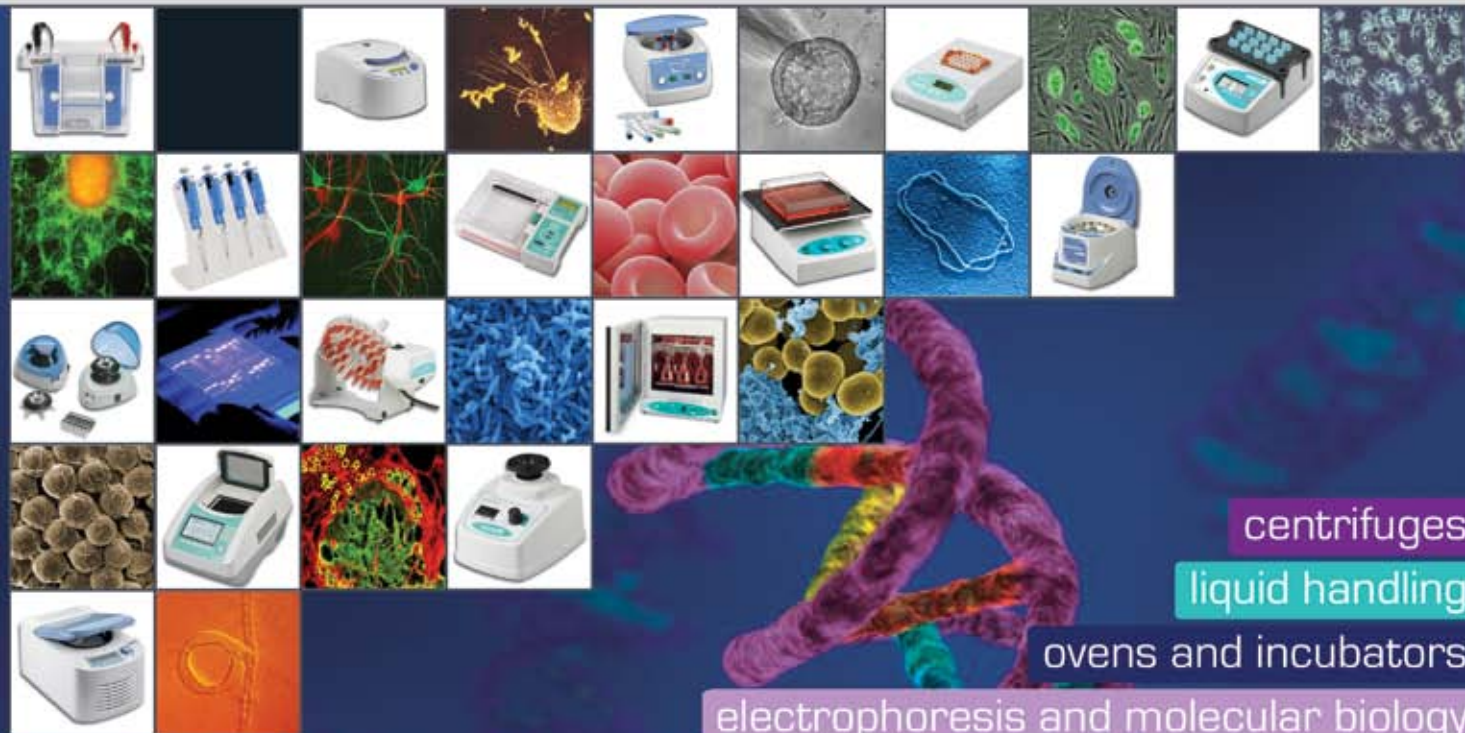


Labnet
Labnet International, Inc.

north american catalog
2011 - 2012



products for biological research



centrifuges

liquid handling

ovens and incubators

electrophoresis and molecular biology

shakers, rockers and rotators

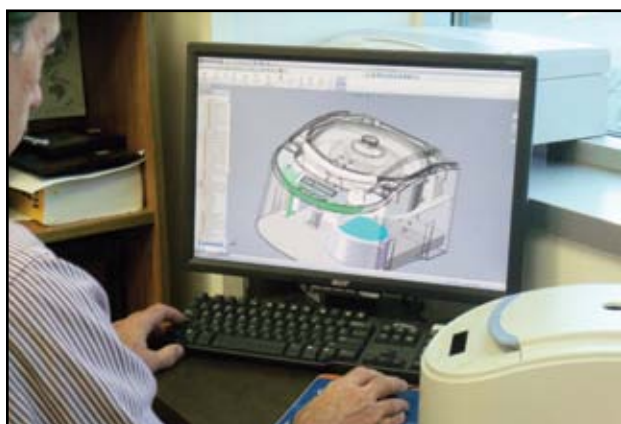
plasticware

We are pleased to introduce our **2011/2012** North American Catalog. This publication features our latest offering of laboratory equipment and supplies that are distributed throughout North America.

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 in the United States 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



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



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
- UNIVERSAL
- COMPACT
- HIGH PERFORMANCE
- ROTORS & ACCESSORIES

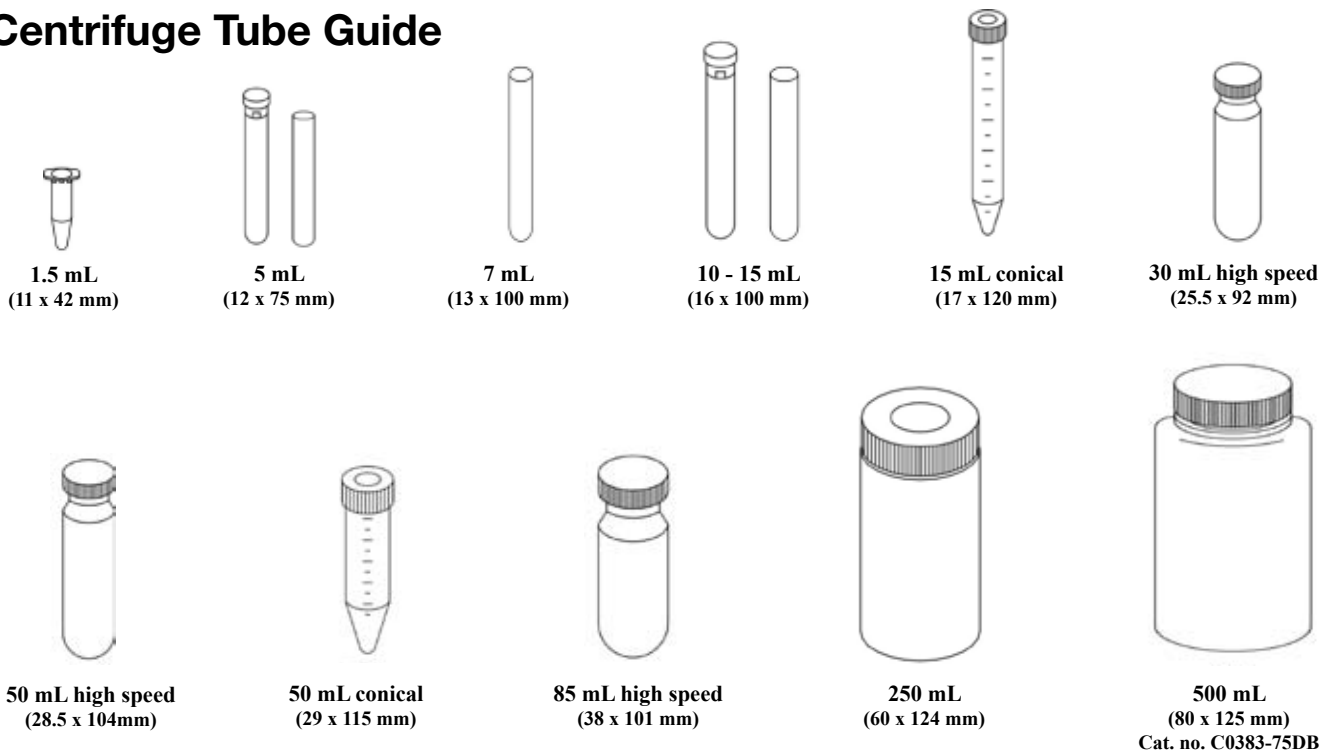


Centrifuges - selection chart

Centrifuge Selection Guide

	Maximum g-Force	Rotor options	Max Microtube Angle/Swing-out	Max 15 mL (Con.) (Angle/Swing-out)	Max 50 mL (Con.) (Angle/Swing-out)	Digital Display	Refrigeration	RPM/RCF Conversion	Rotor for Plates
MPS 1000	500	1	-	-	-	No	No	No	Yes
Spectrafuge Mini	2,000	2	6/-	-	-	No	No	No	No
Spectrafuge 16M	16,000	1	18/-	-	-	No	No	No	No
Spectrafuge 24D	16,300	1	24/-	-	-	Yes	No	Yes	No
Prism	21,200	1	24/-	-	-	Yes	No	Yes	No
Z 233 M2	21,380	7	44/12	-	-	Yes	No	Yes	No
Prism R	17,135	1	24/-	-	-	Yes	Yes	Yes	No
Z 216 MK	21,380	7	44/-	-	-	Yes	Yes	Yes	No
Z 100 A	1,900	1	-	6/-	-	No	No	No	No
Spectrafuge 6C	4,000	1	-	6/-	-	Yes	No	No	No
Z 206 A	4,180	4	18/-	12/-	6/-	Yes	No	Yes	No
Z 306	17,310	10	44/20	30/12	6/8	Yes	No	Yes	Yes
Z 400 K	17,310	10	44/100	24/48	6/28	Yes	Yes	Yes	Yes
Z 326 K	23,545	16	44/20	30/12	6/8	Yes	Yes	Yes	Yes
Z 366	29,068	10	30/36	30/28	6/12	Yes	No	Yes	Yes
Z 383 K	26,810	11	44/100	24/48	6/28	Yes	Yes	Yes	Yes
Z 36 HK	65,390	10	30/36	30/28	6/12	Yes	Yes	Yes	Yes

Centrifuge Tube Guide



Economical *Minifuge* Mini Centrifuge - for Tubes or Strips

The original *Minifuge* Mini Centrifuge is available with two rotor configurations. The strip tube model holds two 8 x 0.2 mL PCR strip tubes or 16 individual 0.2 mL tubes. The standard model accommodates 6 x 1.5/2.0 mL tubes and is supplied with 0.5 and 0.4 mL adapters.

Requiring less than six inches of bench space, the economical *Minifuge* Mini Centrifuges are ideal for personal use, microfiltration of samples and quick spin downs from the walls and caps of tubes.

Operation of the centrifuges is simple. Upon closing the lid, the rotor quickly accelerates to 6,000 rpm. When the lid is opened, the rotor comes to a stop. The clear lid allows for visualization of samples.

The *Minifuge* is safe for cold room use.



- Strip tube or microtube rotor configurations
- Ideal for quick spin downs and microfiltration
- Starts and stops in seconds
- Personal sized

SPECIFICATIONS

	With microtube rotor	With strip tube rotor
Maximum speed/RCF	6,000 rpm/2,000 x g	6,000 rpm/1,177 x g
Maximum capacity	6 x 1.5/2.0 mL	2 x 0.2 mL strips
Dimensions (W x D x H)	5 x 5 x 4.4 in/12.7 x 12.7 x 11.2 cm	5 x 5 x 4.4 in/12.7 x 12.7 x 11.2 cm
Weight	1 lb/0.45 kg	1 lb/0.45 kg
Electrical	120V~, 60 Hz or 230V~, 50 Hz	120V~, 60 Hz or 230V~, 50 Hz

ORDERING INFORMATION

Catalog No.	Description
C1201*	<i>Mini Centrifuge</i> , with 1.5/2.0 mL tubes, 0.5 mL and 0.4 mL adapters
C1202*	<i>Mini Centrifuge</i> , with strip tube rotor
C1205	Individual adapters for 0.5 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

*To order product in 230V, add -230V to the end of the catalog number.

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

CE
CSA Compliant

Slide Spinner

SPECIFICATIONS

	<i>Spectrafuge Mini</i>	<i>Slide Spinner</i>
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	120V~, 60 Hz or 230V~, 50 Hz	120V~, 60 Hz or 230V~, 50 Hz

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

ORDERING INFORMATION

Catalog No.	Description
C1301-120V*	<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, 120V
C1301-B*	<i>Spectrafuge Mini</i> , as above, blue lid, 120V
C1301-T*	<i>Spectrafuge Mini</i> , as above, teal lid, 120V
C1301-P*	<i>Spectrafuge Mini</i> , as above, purple lid, 120V
C1301-R*	<i>Spectrafuge Mini</i> , as above, red lid, 120V
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*	<i>Slide Spinner</i> with two slide drying cassettes, 230V
C1303-SC	Extra cassettes for <i>Slide Spinner</i> centrifuge, pack of 2

*To order 230V units add -230V to the end of the catalog number. Specify cord type by adding -EU, UK or -AU.

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.



Patent Pending

- 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

CE
CSA Compliant

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	120V~, 60 Hz or 230V~, 50 Hz



C1000-ADAPT

ORDERING INFORMATION

Catalog No.	Description
C1000*	MPS 1000 Plate Spinner centrifuge, 120V
C1000-ADAPT	MPS 1000 PCR Support Plate

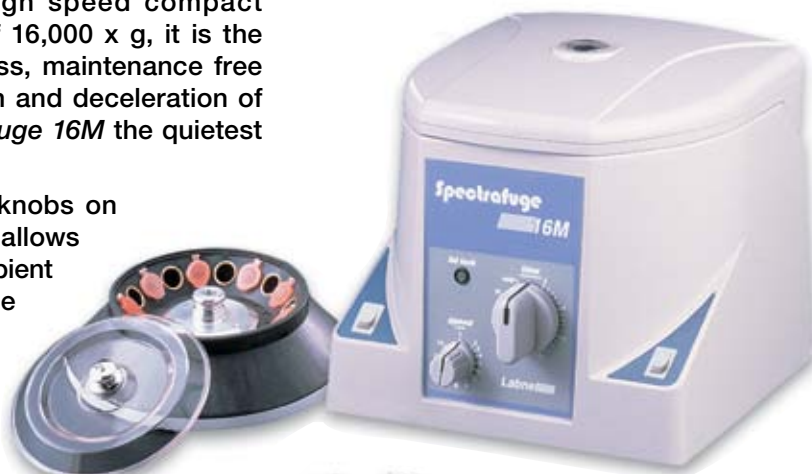
*To order 230V units add -230V to the end of the catalog. Specify cord type by adding -EU or -UK to the end of the catalog number.

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



C0160-SS



CSA Compliant

- 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	120V~ or 230V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
C0160*	<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

*To order 230V units add -230V to the end of the catalog number. 230V product includes both EU and UK power cords.

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.



CE
CSA Compliant



- 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	120V~, 60 Hz or 230V~, 50 Hz



Cut-away view of easy access rotor

ORDERING INFORMATION

Catalog No.	Description
C2400*	<i>Spectrafuge 24D</i> digital microcentrifuge, standard gray, 230V
C2400*	<i>Spectrafuge 24D</i> digital microcentrifuge, blue accents, 230V
C2400-T*	<i>Spectrafuge 24D</i> digital microcentrifuge, teal accents, 230V
C2400-P*	<i>Spectrafuge 24D</i> digital microcentrifuge, purple accents, 230V
C2400-R*	<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

* To order 230V units add -230V to the end of the catalog number. 230V product includes both, -EU and -UK power cords.

Prism™ and Prism R Microcentrifuges

The *Prism* and *Prism R* are the newest additions to Labnet's microcentrifuge line. These two units feature powerful brushless motors and an intuitive control panel.

The *Prism R* is a refrigerated unit with cooling capacity to spare. Its powerful refrigeration system maintains temperatures as low as -10°C and can reach 4°C in less than 8 minutes. The ambient *Prism* unit has been designed to keep sample temperature rise to a minimum, even when operating at maximum speed and can be used in a cold room.

Speed in both units is easily set and displayed in either rpm or rcf. Operation of the units can be timed, continuous or momentary, using the "Quick" button. Vibration free operation is ensured by an isolation system. In the event of a significant imbalance, operation of the centrifuge is automatically stopped. Deceleration at the end of a run is very quick, but will not disrupt samples.

Both of these centrifuges are supplied with a uniquely designed 24 x 1.5/2.0 mL rotor that allows easy access to the tops of the sample tubes. Individual tube slots in the solid aluminum rotor support tubes along their length and contain the sample in the event of tube failure. Adapters are available for smaller tubes as well as PCR strips. The rotor is seated on a tapered shaft which facilitates easy removal for cleaning and autoclaving.

- High speed and g-force
- 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

	<u>Prism</u>	<u>Prism R</u>
Speed range	500 to 15,000 rpm	500 to 13,500 rpm
Maximum RCF	21,200 x g	17,135 x g
Maximum capacity	24 x 1.5/2.0 mL	24 x 1.5/2.0 mL
Timer	0.5 to 99 minutes or continuous "Quick" button for momentary operation	0.5 to 99 minutes or continuous "Quick" button for momentary operation
Temperature range	N/A	-10° to 40°C
Dimensions (W x D x H)	9.45 x 13.8 x 7.48 in/24 x 35 x 19 cm	10.9 x 17.75 x 9.75 in/27.7 x 45 x 24.75 cm
Weight	21 lb/9.6 kg	44 lb/20 kg
Electrical	120V~, 60 Hz or 230V~, 50 Hz	120V~, 60 Hz or 230V~, 50 Hz

ORDERING INFORMATION

Catalog No.	Description
C2500*	<i>Prism</i> ambient microcentrifuge with 24 place rotor, 230V
C2500-R*	<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

* To order 230V units add -230V to the end of the catalog number. 230V product includes both EU and UK power cords.

Z 233 M-2

The Z 233 M-2 microcentrifuge has been designed to provide total control over operating parameters. A microprocessor, brushless induction drive and high speed capabilities make the Z 233 M-2 the ultimate in high performance.

Operating parameters, including speed/g-force and run time are set using easy to turn knobs while their values are shown on large digital displays. Both rpm and g-force can be displayed during a run. Acceleration and deceleration rates can be set at fast or slow. Momentary spins are achieved by holding the quick button.

A rugged housing, heavy duty lid lock and hinge, and stainless steel bowl make the Z 233 M-2 microcentrifuge a durable workhorse. Nine rotor options are available to accept a wide variety of tubes.



CE
CSA Compliant

- High speed - up to 15,000 rpm/21,380 x g
- Multiple rotor options including high capacity rotors
- Whisper quiet brushless induction drive
- Automatic g-force conversion program



C0230-HLA-RA

SPECIFICATIONS

Speed range	250 rpm to 15,000 rpm
Maximum RCF	21,380 x g
Maximum capacity	44 x 1.5/ 2.0 mL, 6 x 30 mL
Timer	1 to 99 minutes or continuous
	"Quick" button for momentary operation
Dimensions (W x D x H)	11 x 14.6 x 10.25 in/28 x 37 x 26 cm
Weight	33 lb, 15 kg/86 lb, 39.1 kg
Electrical	120V~, 60 Hz or 230V~, 50 Hz

ORDERING INFORMATION

Catalog No.	Description
C0233M-2*	Z 233 M-2 Ambient Microcentrifuge, without rotor
C0200-95*	Angle rotor, 18 x 1.5 mL, max 14,000 rpm/15,994 x g
C0230-2A	Angle rotor, 24 x 1.5 mL, max 15,000 rpm/21,380 x g
C0230-2AH	Angle rotor, 24 x 1.5 mL, max 15,000 rpm/21,380 x g, hermetically sealable
C0230-9A	Angle rotor, 44 x 1.5 mL, max 14,000 rpm/18,400 x g
C0230-55A	Angle rotor, 48 place: 24 x 1.5 mL and 24 x 0.5 mL, max 14,000 rpm/18,400 x g
C0230-HLA-RA	Swing out rotor, 12 x 1.5/1.0 mL microcytometry tubes, 10,500 rpm/9,614 x g
C0230-58	24 place Hematocrit 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

*To order product in 230V, add -230V to the end of the catalog number.

Z 216 MK Refrigerated Microcentrifuge

The Z 216 MK sets a new standard for refrigerated microcentrifuges. Remarkably small, it has a powerful motor and cooling capacity to spare.

The control panel of the Z 216 MK features an easy to read LCD with one ergonomic adjustment knob for easy setting of parameters. Speed can be set and viewed in both rpm and rcf. Preselection of the rotor code provides the proper g-force conversion. Acceleration and deceleration can be set to 10 different ratings. Up to 99 sets of parameters may be stored in memory and quickly recalled for repetitive runs.

Powerful refrigeration controls temperature within the system from -20° to 40°C. The “Quick COOL” feature allows for the rotor and chamber to be quickly precooled before a run.

The lid of the centrifuge has a motorized locking system. The powerful induction drive can accelerate to maximum speed in under 16 seconds. The software incorporates an imbalance identification system with automatic shutoff. Operation of the unit is exceptionally quiet.

Seven rotor options are available, including a unique combination rotor for 1.5/2.0 mL and 0.5 mL tubes.

- Maximum 15,000 rpm/21,380 x g
- Powerful refrigeration system
- Capacity for up to 44 x 1.5/2.0 mL tubes
- Compact design, less than 11 inches wide
- Motorized lid lock



CE
CSA Compliant



SPECIFICATIONS

Speed range	200 rpm to 15,000 rpm
Maximum RCF	21,380 x g
Maximum capacity	44 x 1.5/ 2.0 mL
Timer	10 to 99 hours 59 minutes or continuous Quick spin button for momentary operation
Dimensions (W x D x H)	10.9 x 20.3 x 11.6 in./27.7 x 51.6 x 29.5 cm
Weight	77 lb/ 35 kg
Electrical	120V~, 60 Hz or 230V~, 50 Hz

ORDERING INFORMATION

Catalog No.	Description
C0216-MK*	Z 216 MK Refrigerated Microcentrifuge without rotor
C0216-24	Rotor, 24 x 1.5/2.0 mL, 15,000rpm/21,320 x g
C0216-24H	Rotor, 24 x 1.5/2.0 mL, with hermetically sealed lid, 15,000rpm/21,320 x g
C0216-30H	Rotor, 30 x 1.5/2.0 mL, with hermetically sealed lid, 13,500 rpm/19,150 x g
C0216-38	4 x 3 strip tube rotor, 15,000 rpm/15,342 x g
C0216-44	Rotor, 44 x 1.5/2.0 mL, 13,500 rpm/17,720 x g
C0216-48	Combination rotor, for 24 x 1.5/2.0 mL and 24 x 0.5 mL, 13,500rpm/17,720 x g
C0126-64	Rotor, 64 x 0.5 mL, 13,500 rpm/16,700 x g

*To order product in 230V, add -230V to the end of the catalog number.

Z 100 A Clinical Centrifuge

The Z 100 A Clinical Centrifuge is suitable for a variety of applications in the clinical setting or in the research laboratory.

The fixed angle rotor accepts 6 x 15 mL or 10 mL tubes directly. Optional adapters can be purchased to accommodate smaller tubes, including most common blood draw tubes.

A clear lid allows for visualization of the rotor. For safety, power is cut to the unit when the centrifuge lid is opened. The rugged ABS housing adds durability to the centrifuge and makes cleaning easier.

The Z 100 A can be used in a cold room for subambient applications.

- Maximum speed 4,000 rpm/1,900 x g
- Variable speed control
- Ideal for clinical applications
- Safe for cold room operation



CE



C0100-A (Rotor)

SPECIFICATIONS

Speed range	1,000 rpm to 4,000 rpm
Maximum RCF	1,900 x g
Maximum capacity	6 x 10/15 mL round or conical
Timer	1 to 30 minutes or continuous
Dimensions (W x D x H)	11 x 13.75 x 10.2 in./26.5 x 33 x 24.5 cm
Weight	12 lb/5.5 kg
Electrical	120V~, 50-60 Hz

ORDERING INFORMATION

Catalog No.	Description
C0100-A	Z 100 A Clinical Centrifuge with 6 x 10/15 mL rotor
C0200-17A	Adapters for 5 mL (13 x 75 mm) and 7 mL (13 x 100 mm) tubes, pack of 6

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.



- 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

CE
CSA Compliant

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*	<i>Spectrafuge 6C</i> Centrifuge, complete with 6 x 10/15 mL rotor
C0200-17A	Adapter set for 5, 7 and 10 mL tubes, pack of 6

*To order 230V units add -230V to the end of the catalog number. 230V product includes both -EU and -UK power cords.

Z 206 A

The microprocessor controlled Z 206 A is a compact centrifuge ideal for use in both research and clinical laboratories.

The centrifuge's modern control panel features a large digital display and easy turn knob for setting parameter values. The microprocessor maintains precise control over operation of the centrifuge with feedback loops, ten levels of acceleration and deceleration and an imbalance sensor. Speed can be set or displayed in rpm or g-force with both values visible at all times. Inputting a rotor code allows more exact g-force conversion values.

Three angle rotors are available for use with the Z 206 A. The 15 mL rotor has a capacity for twelve tubes while the 50 mL rotor will hold six. Both rotors accept round and conical bottom tubes and are made of stainless steel for durability. The third angle rotor accepts 18 x 1.5/2.0 mL tubes. In addition, the Z 206 A will also accommodate a swing out rotor for 6 x 5 mL tubes. Optional adapters accommodate various tube sizes including standard conical tubes and round bottom blood tubes. The centrifuge is cold room compatible.

- Maximum speed 6,000 rpm/4,180 x g
- Large capacity - 6 x 50 mL and 12 x 15 mL
- Accepts conical and round bottom tubes
- Set and view speed in rpm or g-force
- Ten acceleration and deceleration levels protect fragile samples



C0200-18

C0200-96

SPECIFICATIONS

Speed range	200 rpm to 6,000 rpm
Maximum RCF	4,185 x g
Maximum capacity	12 x 15 mL or 6 x 50 mL
Timer	10 seconds to 99 min 59 secs or continuous
Dimensions (W x D x H)	11 x 14.6 x 10.2 in/28 x 37 x 26 cm
Weight	30 lb/15 kg
Electrical	120V~, 60 Hz or 230V~, 50 Hz

CE
CSA Compliant

ORDERING INFORMATION

Catalog No.	Description
C0206-A*	Z 206 A Compact, General Purpose Centrifuge without rotor
C0200-96	Angle rotor, 12 x 15 mL, max 6,000 rpm/4,180 x g
C0200-17A	Combination adapter for 5, 7 and 10 mL in 15 mL rotor, pk of 6
C0200-97	Angle rotor, 6 x 50 mL, max 6,000 rpm/3,820 x g
C0232-8B	Adapter for 15 and 10 mL conical and round bottom in 50 mL rotor, pk of 6
C0232-9B	Adapter for 5 mL (12 x 75 mm) and 7 mL (13 x 100 mm) in 50 mL rotor, pk of 6
C0230-41	Adapter cushion for 12 x 75 mm tubes, pk of 12
C0200-18	Swing out rotor, 6 x 5 mL, max 3,500 rpm/1,450 x g
C0200-1	Angle rotor, 18 x 1.5/2.0 mL, max 6,000 rpm/2,930 x g
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

*To order product in 230V, add -230V to the end of the catalog number.

Centrifuges - universal

Z 306

The Z 306 centrifuge is the most compact of the universal units in the Hermle line. This centrifuge accommodates microplates and tubes up to 100 mL in swing-out and fixed angle rotors. A broad speed range and high g-force make the Z306 ideal for applications from clinical research to molecular biology.

A modern design control panel displays both preset and actual parameters with simple one handed operation. Precise centrifugation is obtained with 10 rpm/rcf increments and 10 acceleration or deceleration levels to protect fragile samples. The microprocessor allows up to 99 programs to be saved with simple program retrieval.

Improperly loaded rotors trigger the safety imbalance detection system which stops operation of the centrifuge. Other safety features include automatic rotor recognition with over speed protection and a motor driven lid lock system.



C0036-16



C0326-72C



C0252-87

- Maximum speed 13,500 rpm/17,319 x g with microtube rotor
- Capacity for up to 4 x 100 mL
- Automatic rotor identification and g-force conversion
- Swing out and angle rotors for tubes, microplates and aerosol containment
- Versatility in a small package

CE
CSA Compliant

SPECIFICATIONS

Speed range	10 to 13,500 rpm
Maximum RCF	17,319 x g
Maximum capacity	4 x 100 mL
Timer	10 sec. to 99 hr. and 59 sec.
Dimensions (W x D x H)	14 x 18.5 x 13 in/35.5 x 47 x 33 cm
Weight	59.4 lb/27 kg
Electrical	120V~, 60 Hz or 230V~, 50 Hz

ORDERING INFORMATION

Catalog No.	Description
C0306*	Z 306 Universal Centrifuge
See pages (18 - 20) for a complete listing of rotors and accessories	

*To order 230V units add -230V to the end of the catalog number.

Z 400 and Refrigerated Z 400 K

Multiple swing-out and angle rotor options make the Z 400 series centrifuges useful for a wide range of applications from molecular and cellular biology to microplate technology and blood separations. Both centrifuges accept the high capacity swing-out rotor that is capable of spinning up to 28 x 50 mL or 48 x 15 mL conical or round bottom tubes.

The microprocessor based controls are designed for quick and easy programming. Parameters are set with knobs while their values are shown on large digital displays. To prevent accidental change, the knobs are inactivated during a run unless the preset key is depressed.

Both the Z 400 and Z 400 K feature maintenance-free, induction drives for exceptionally quiet and smooth operation. Safety features include an electronic lid lock, imbalance sensors and a rotor recognition program that automatically limits each rotor to its maximum rated speed. G-force conversion software allows for setting and display of speed in rpm or RCF. Acceleration and deceleration rates can be set at fast or slow.

A continuous flow of ambient air through the rotor chamber of the Z 400 prevents sample temperature from rising significantly above ambient, even during extended runs. The powerful refrigeration system in the Z 400 K can maintain all of the available rotors at or below 4°C, even at maximum speed.

- Maximum speed 13,500 rpm/17,310 x g with microtube rotor
- High capacity swing out rotors - up to 4 x 500 mL, 28 x 50 mL and 48 x 15 mL
- Multiple swing out and angle rotor options for tubes, plates and aerosol containment
- Microprocessor control with g-force conversion



C0400



C0400-K w/rotors

CE
CSA Compliant

SPECIFICATIONS

Speed range	250 rpm to 13,500 rpm
Maximum RCF	17,310 x g
Maximum capacity	4 x 500 mL
Timer	1 to 60 minutes or continuous "Quick" button for momentary operation
Temperature range (Z 400 K)	-10° to +40°C
Dimensions (W x D x H)	
Z 400	16.1 x 22.2 x 14.8 in/41 x 56.5 x 37.5 cm
Z 400 K	29.1 x 22.8 x 13.4 in/74 x 58 x 34 cm
Weight	
Z 400	121 lb/55 kg
Z 400 K	174 lb/79 kg
Electrical	120V~, 60 Hz or 230V~, 50 Hz



C0383-75 and C0383-75H

ORDERING INFORMATION

Catalog No.	Description
C0400*	Z 400 Universal Centrifuge
C0400-K*	Z 400 K Refrigerated Universal Centrifuge

See pages (18 - 20) for a complete listing of rotors and accessories

*To order product in 230V, add -230V to the end of the catalog number.

Centrifuges - high performance

Z 326K and Z 383 Series

These high performance centrifuges are capable of high speed operation, expanding their use to applications in molecular biology and basic research.

The Z 326 K centrifuge has a capacity up to 4 x 100 mL with 16 different rotor options. Capable of 99 memory programs, this centrifuge has a large LCD display showing both pre-selected and actual run parameters with 10 different acceleration and deceleration levels. The Z383 K will hold up to 4 x 500 mL with a variety of swing-out and angle rotors. Run parameters, including rotor type can be saved to 10 program memories. Braking intensity can be set to ten different levels.

Both centrifuges are equipped with motor driven lid lock systems to reduce the force to activate lock. Speed is set and displayed in RPM or RCF. Proper calculation of g-force with different size tubes and adaptors is ensured by a radius correction feature. A maintenance-free induction drive provides quiet operation and quick acceleration and deceleration.

Safety features incorporated into the centrifuges include automatic rotor recognition, over speed protection and imbalance sensors.



- Maximum speed 17,000 rpm/26,810 x g (with microtube rotor)
- Capacity for up to 4 x 500 mL (C0383 Series only)
- Swing out rotors for tubes and microplates
- High speed rotors for 85, 50 and 30 mL tubes, up to 20,980 x g
- Microprocessor control with g-force conversion, rotor ID and program memory

CE
CSA Compliant

SPECIFICATIONS

	Z 326 K	Z 383	Z 383 K
Speed range	250 to 18,000 rpm	250 to 17,000 rpm	250 to 17,000 rpm
Maximum RCF	20,398 x g	26,810 x g	26,810 x g
Maximum capacity	4 x 100 mL	4 x 500 mL	4 x 500 mL
Timer	10 s to 99 hr 59s Quick" button	1 to 60 min or hold "Quick" button	1 to 60 min or hold "Quick" button
Temperature range	-10° to +40°C	NA	-10° to +40°C
Dimensions (WxDxH)	15.7 x 27.6 x 14.2 in 40 x 70 x 36 cm	19.9 x 23.6 x 14.7 in 48 x 60 x 38 cm	29.5 x 23.6 x 14.7 in 75 x 60 x 38 cm
Weight	132 lb/60 kg	132 lb/60 kg	264 lb/120 kg
Electrical	120V~, 60 Hz 230V~, 50 Hz	120V~, 60 Hz 230V~, 50 Hz	120V~, 60 Hz 230V~, 50 Hz
Catalog No.	C0326-K*	C0383*	C0383-K*

See pages (18 - 20) for a complete listing of rotors and accessories.

*To order product in 230V, add -230V to the end of the catalog number.

Z 366 and Refrigerated Z 36 HK

The Z 366 and Z 36 HK are large capacity, high performance centrifuges capable of high speed operation. A variety of swing out and angle rotors are available for these centrifuges to accommodate nearly every common tube type in the laboratory, up to 250 mL.

Both centrifuges feature a modern control panel with large digital displays and single knob control. Users can choose from 10 different acceleration and deceleration rates. The microprocessor allows for 99 programs to be stored in memory and recalled at the touch of a button.

An automatic rotor recognition system allows speed to be set and displayed in rpm or g-force. When using adapters, a radius correction factor can be entered for the most accurate g-force calculation.

Other common features of these centrifuges include a powerful induction drive, motorized lid lock, overspeed protection, imbalance detection and a compact design.

The Z 366 ambient centrifuge accommodates 10 different rotors at speeds up to 29,068 x g. The Z 36 HK is a super speed centrifuge in a bench top package. This unit can accomplish 65,390 x g at its maximum speed. Ten rotor options allow for a variety of applications. In addition, the Z 36 HK has a powerful refrigeration system.



CE
CSA Compliant

- High speed - 29,068 x g (Z 366) and 65,390 x g (Z 36 HK)
- High capacity - 6 x 250 mL, 30 x 1.5 mL and 2 x 3 microplates
- Microprocessor control with g-force conversion, rotor ID and program memory
- Multiple swing out and angle rotors for tube and plates
- Compact, benchtop design

SPECIFICATIONS

	Z 366	Z 36 HK
Speed range	200 rpm to 20,000 rpm	222 rpm to 30,000 rpm
Maximum RCF	29,068 x g	65,390 x g
Maximum capacity	6 x 250 mL	6 x 250 mL
Timer	30 seconds to 99 minutes 59 seconds "Quick" button for momentary operation	30 seconds to 99 minutes 59 seconds "Quick" button for momentary operation
Temperature range	N/A	-10° to +40°C
Dimensions (W x D x H)	17 x 20 x 15 in/43.1 x 50.8 x 38.1 cm	28 x 16.5 x 20 in/71.1 x 41.9 x 50.8 cm
Weight	115 lb/52.3 kg	200 lb/90.9 kg
Electrical	120V~, 60 Hz or 230V~, 50 Hz	120V~, 60 Hz or 230V~, 50 Hz
Catalog number	C0366*	C0036-HK*
See pages (18 - 20) for a complete listing of rotors and accessories.		

*To order product in 230V, add -230V to the end of the catalog number.

Centrifuges - rotors and accessories

4 x 500 mL swing-out rotor



Cat. no. C0383-75

Centrifugal radius: 18.6 cm

Fits: Z 400/K - 3,500 rpm/2,547 x g

Z 383/K - 4,500 rpm/4,210 x g

Carriers (four required):

C0383-75D** 1 x 500 mL bottle, pk/2

C0383-75E 1 x 250 mL bottle, pk/2

C0383-75C* 7 x 50 mL conical, pk/2

C0383-75B 5 x 50 mL conical, pk/2

C0383-75A 12 x 15 mL conical, pk/2

C0383-75F 19 x 10 mL, pk/2

C0383-75G 19 x 5/7 mL, pk/2

C0383-75H 3 std. microplates,

1 deepwell plate, pk/2

C0383-75L Sealing lid, each

C0383-75DB Bottle, 500 mL, pk/2

*Sealing lid does not fit with this insert

**For use with C0303-75DB

4 x 100 mL swing-out rotor



Cat. no. C0326-72C (with buckets)

Cat. no. C0326-72 (w/o buckets)

Centrifugal radius: 14 cm

Fits: Z 306 - 4,000 rpm/2,486 x g

Z 326 - 5,000 rpm/3,885 x g

Inserts (four required):

C0320-720 1 x 100 mL, pk/2

C0320-728 1 x 50 mL conical, pk/2

C0320-726* 2 x 15 mL conical, pk/2

C0320-724 4 x 10 mL, pk/2

C0320-730 4 x 7 mL, pk/2

C0320-721 5 x 1.5 mL, pk/2

Carriers (four required):

C0326-72A* 3 x 15 mL, pk/2

C0326-72B* 2 x 50 mL, pk/2

*For use without buckets

4 x 100 mL economy swing-out rotor



Cat. no. C0326-12

Centrifugal radius: 14.8 cm

Fits: Z 306 - 4,500 rpm/3,350 x g

Z 326K - 4,500 rpm/3,350 x g

Carriers (four required):

C0300-120 1 x 100 mL, pk/2

C0300-122 1 x 50 mL conical, pk/2

C0300-123 1 x 15 mL conical, pk/2

C0300-124 7 x 10 mL round, pk/2

C0300-126 7 x 5, 7 mL Vacutainer, pk/2

12 x 50 mL conical swing-out rotor



Cat. no. C0400-50

Centrifugal radius: 18.4 cm

Fits: Z 400/K - 3,500 rpm/2,520 x g

Z 383/K - 3,500 rpm/2,520 x g

Adapters:

C0232-8B 15 mL conical/round, pk/4

C0232-9B 7 mL, pk/4

C0230-41 Cushion for 12 x 75 mL in C0232-9, pk/12

20 x 15 mL conical swing-out rotor



Cat. no. C0400-15

Centrifugal radius: 18.7 cm

Fits: Z 400/K - 3,500 rpm/2,561 x g

Z 383/K - 3,500 rpm/2,561 x g

Adapters:

C0200-17A Combination adapter for 5, 7 and 10 mL, pk/4

C0230-20 1.5 mL, pk/4

2 x 3 microplates swing-out rotor



Cat. no. C0300-16

Centrifugal radius: 12.2 cm

Fits: Z 400/K - 4500 rpm/2,762 x g

Z 383/K - 4,500 rpm/2,762 x g

Cat. no. C0036-16

Fits: Z 306 - 4,500 rpm/2,720 x g

Z 326 K - 4,500 rpm/2,720 x g

Z 366 - 4,500 rpm/2,720 x g

Z 36 HK - 4,500 rpm/2,720 x g

Adapters:

C0320-504 Tube rack, 48 x 1.5 mL, pk/2

12 x 15 ml conical swing-out rotor



Cat. no. C0300-96

Centrifugal radius: 10.7 cm

Fits: Z 400/K - 6,000 rpm/4,185 x g

Cat. no. C0326-96

Fits: Z 306 - 6,000 rpm/4,185

Z 326 K - 6,000 rpm/4,185 x g

Adapters:

C0200-17A Combination adapter for 5, 7 and 10 mL, pk/4

C0230-20 1.5 mL, pk/4

6 x 50 mL conical angle rotor



Cat. no. C0300-97

Centrifugal radius: 9.6 cm

Fits: Z 400/K - 6,000 rpm/3,863 x g

Cat. no. C0326-97

Fits: Z 306-6,000 rpm/3,863 x g

Z 326 K - 6,000 rpm/3,863 x g

Adapters:

C0232-8B 15 mL conical/round, pk 4

C0232-9B 7 mL, pk/4

C0230-41 Cushion for 12 x 75 mL

24 x 15 mL angle rotor



Cat. no. C0323-81

Centrifugal radius: 14.4 cm

Fits: Z 400/K - 3,500 rpm/1,972 x g

Z 383/K - 3,500 rpm/1,972 x g

Adapters:

C0200-17A Combination adapter for 5, 7 and 10 mL, pk/4

C0230-02 1.5 mL, pk/4

Centrifuges - rotors and accessories

8 x 50 mL high speed angle rotor



Cat. no. C0382-91
Cat. no. C0382-91H*

Centrifugal radius: 9.5 cm
Fits: Z 383/K - 15000 rpm/23,890 x g
Adapters:
C0360-91C 30 mL, 92/95 mm, pk/2
C0360-91A 16 mL, 105 mm, pk/2

*Hermetically sealed version

8 x 30 mL high speed angle rotor



Cat. no. C0382-76
Cat. no. C0382-76H*

Centrifugal radius: 10.3 cm
Fits: Z 383/K - 15,000 rpm/25,900 x g
Adapters:
C0360-76C 16 mL, pk/2
C0360-76A 15 mL, pk/2

*Hermetically sealed version

6 x 85 mL high speed angle rotor



Cat. no. C0382-78
Cat. no. C0382-78H*

Centrifugal radius: 10.3 cm
Fits: Z 383/K - 15,000 rpm/25,900 x g
Adapters:
C0360-94D 50 mL, conical, pk/2
C0360-94A 50 mL, round, pk/2
C0360-94B 30 mL, 90-103 mm, pk/2
C0360-94C 15 mL, round, pk/2
C0360-94X 15 mL, conical, pk/2

*Hermetically sealed version

24 x 15/2.0 mL high speed angle rotor



Cat. no. C0252-87
Cat. no. C0252-87H

Centrifugal radius: 8.3 cm
Fits: Z 383/K - 17,000 rpm/26,810 x g
Z 400/K - 13,500 rpm/17,310 x g

Cat. no. C0326-24
Cat. no. C0326-24H*

Fits: Z 306 - 13,500 rpm/17,319 x g
Z 326 K - 14,500 rpm/21,381 x g

Adapters:

C1205 0.5/0.6 mL, pk/6
C1206 0.4/0.25 mL, pk/6
C1222 0.2 mL thermal cycling, pk/6

*Hermetically sealed version

24 x 1.5/2.0 mL, 24 x 0.5 mL combination angle rotor



Cat. no. 0252-55

Centrifugal radius: 8.4 cm
Fits: Z 400/K - 13,500 rpm/17,110 x g
Z 383/K - 13,500 rpm/17,110 x g

Cat. no. C0326-48

Fits: Z 326 K - 13,500 rpm/17,110 x g
Z 383/K - 13,500 rpm/17,110 x g

Adapters:

C1205 0.5/0.6 mL*, pk/6
C1206 0.4/0.25 mL*, pk/6
C1222 0.2 mL thermal cycling*, pk/6

*These adapters can be used only in 1.5/2.0 mL tube slots.

44x 1.5/2.0 mL angle rotor



Cat. no. C0252-9

Centrifugal radius: 8.4 cm
Fits: Z 400/K - 13,500 rpm/17,110 x g
Z 383/K - 13,500 rpm/17,110 x g

Adapters:

C1205 0.5/0.6 mL, pk/6
C1206 0.4/0.25 mL, pk/6
C1222 0.2 mL thermal cycling, pk 6

12 x 1.5/2.0 mL, high speed angle rotor



Cat. no. C0036-23

Centrifugal radius: 6.5 cm
Fits: Z 326 K - 18,000 rpm/23,545 x g
Z 366 - 20,500 rpm/29,068 x g
Z 36 HK - 30,000 rpm/65,390 x g

Adapters:

C1205 0.5/0.6 mL, pk/6
C1206 0.4/0.25 mL, pk/6
C1222 0.2 mL thermal cycling, pk/6

30 x 1.5/2.0 mL high speed angle rotor



Cat. no. C0036-17

Centrifugal radius: 9.4 cm
Fits: Z 306 - 12,000 rpm/15,193 x g
Z 366 - 15,000 rpm/23,645 x g
Z 36 HK - 20,000 rpm/42,0430 x g

Adapters:

C1205 0.5/0.6 mL, pk/6
C1206 0.4/0.25 mL, pk/6
C1222 0.2 mL thermal cycling, pk/6

20 x 10 mL angle rotor



Cat. no. C0036-28

Centrifugal radius: 9.8 cm
Fits: Z 366 - 12,200 rpm/15,777 x g
Z 36 HK - 12,200 rpm/15,777 x g

Centrifuges - rotors and accessories

**30 x 15mL
angle rotor**



Cat. no. C0036-19

Centrifugal radius: 12.5 cm

Fits: Z 306 - 4,500 rpm/2,830 x g
Z 326 K - 4,500 rpm/2,830 x g
Z 366 - 4,500 rpm/2,830 x g
Z 36 HK - 4,500 rpm/2,830 x g

Adapters:

C0200-10 10/15 mL, round bottom, pk/2
C0200-17A 75 mL, pk/2

**6 x 50 mL
high speed angle rotor**



Cat. no. C0036-22

Centrifugal radius: 8.4 cm

Fits: Z 326 K - 12,000 rpm/13,523 x g
Z 366 - 13,000 rpm/15,871 x g
Z 36 HK - 21,000 rpm/41,410 x g

Adapters:

C0360-19C 30 mL, pk/2
C0360-19A 16 mL, pk/2
C0360-19D 15 mL, pk/2
C0232-8B 15 mL, Falcon, pk/2

**4 x 85 mL
high speed angle rotor**



Cat. no. C0036-20

Centrifugal radius: 9.2 cm

Fits: Z 326 K - 4,500 rpm/2,830 x g
Z 366 - 12,000 rpm/14,811 x g
Z 36 HK - 20,000 rpm/41,470 x g

Adapters:

C0360-94C 15 mL, pk/2
C0360-94B 30 mL, pk/2
C0360-94A 50 mL, pk/2
C0360-94D 50 mL, Falcon, pk/2
C0360-94X 15 mL, Falcon, pk/2

**6 x 85 mL
angle rotor**



Cat. no. C0036-18

Centrifugal radius: 11.5 cm

Fits: Z 306 - 7,500 rpm/7,232 x g
Z 326 K - 9,000 rpm/10,414 x g
Z 366 - 11,000 rpm/15,556 x g
Z 36 HK - 12,000 rpm/18,510 x g

Adapters:

C0360-94C 15 mL, pk/2
C0360-94B 30 mL, pk/2
C0360-94A 50 mL, pk/2
C0360-94D 50 mL, Falcon, pk/2
C0360-94X 15 mL, Falcon, pk/2

**6 x 250 mL
swing out rotor**



Cat. no. C0036-21

Centrifugal radius: 14 cm

Fits: Z 366 - 8,000 rpm/10,017 x g
Z 36 HK - 10,000 rpm/15,650 x g

Adapters:

C0036-21A 3 x 15 mL, conical, pk/2
C0036-21B 50 mL round, pk/2
C0036-21C 50 mL conical, pk/2
C0036-21D 2 x 30 mL round, pk/2
C0036-21E 5 x 10 mL round, pk/2
C0036-21F 8 x 1.5 mL, pk/2

**4 x 250 mL
swing out rotor**



Cat. no. C0036-75

Centrifugal radius: 16.7 cm

Fits: Z 366 - 4,500 rpm/3,780 x g
Z 36 HK - 4,000 rpm/2,990 x g

Adapters:

C0036-75A 7x 15 mL, conical, pk/2
C0036-75B 2 x 50 mL, round, pk/2
C0036-75C 3 x 50 mL, conical, pk/2
C0036-75E 8 x 10 mL (16mm) pk/2
C0036-75G 10 x 5, 7 mL, pk/2
C0036-75D 1 x 250 mL, pk/2

LIQUID HANDLING

Labnet
Labnet International, Inc.



- 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



Certified
ISO 9001



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%



ORDERING INFORMATION		
Catalog No.	Volume range	Tip
P3940-2	0.1-2.0 µl	10 µl
P3940-10	0.5-10 µl	10 µl
P3940-20	2-20 µl	200 µl
P3940-100	10-100 µl	200 µl
P3940-200	20-200 µl	200 µl
P3940-1000	100-1,000 µl	1,000 µl
P3940-5000	1,000-5,000 µl	5,000 µl
P3940-10000	1,000-10,000 µl	10,000 µl
P3985	Universal carousel rack for six pipettes	
P3989	Universal linear rack for six pipettes	
P3986	Universal shelf clip for three pipettes	
P3940-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	

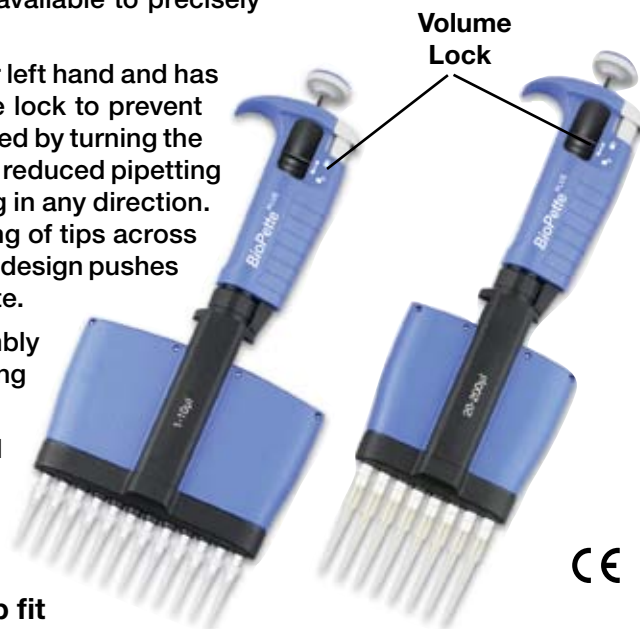
BioPette™ Plus Autoclavable Multichannel Pipettes

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.



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

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
P4508-10	1-10 µl	8	10 µl
P4508-50	5-50 µl	8	200 µl
P4508-200	20-200 µl	8	200 µl
P4508-300	50-300 µl	8	300 µl
P4512-10	1-10 µl	12	10 µl
P4512-50	5-50 µl	12	200 µl
P4512-200	20-200 µl	12	200 µl
P4512-300	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		

Excel™ Electronic Pipettes

The *Excel* is a multifunctional pipette that is fully motorized, eliminating hand strain and allowing efficient multi-dispensing. A high precision stepping motor controls piston action, resulting in exceptional accuracy and precision and minimal pipetting forces. Accuracy is further enhanced by a state-of-the-art microprocessor which controls the action of the stepping motor. The calibration of the unit is checked each time an operation is performed.

The *Excel* features an adjustable tip ejector along with a universal tip shaft designed for compatibility with a wide variety of manufacturers' tips. The lower portion of the pipette is easily removed for autoclaving.

Each pipette is individually tested and supplied with a certificate of quality. Also included is a shelf clip, lithium ion battery and battery charger.

- Comfortable and effortless pipetting
- Efficiency at an affordable price
- Exceptional accuracy and precision
- Fully motorized piston drive
- User-friendly operator interface



P3630-L



Certified
ISO 9001

SPECIFICATIONS

Volume Range	Tip	Increments	Accuracy	Precision
0.5-10 µl	10 µl	0.1 µl	±4.0 to ±1.0%	≤2.5 to ≤0.4%
2-20 µl	10 µl*	0.1 µl	±5.0 to ±1.0%	≤2.0 to ≤0.3%
10-200 µl	200 µl	1.0 µl	±2.0 to ±0.6%	≤1.0 to ≤0.15%
100-1,200 µl	1,000/1,200 µl	1.0 µl	±1.5 to ±0.5%	≤0.6 to ≤0.15%

*Most manufacturers' 10 µl tips will accurately accommodate 20 µl.

ORDERING INFORMATION

Catalog No.	Description
P3600L-10*	<i>Excel Electronic Pipette</i> , 0.5-10 µl, single channel, with charger, 230V
P3600L-20*	<i>Excel Electronic Pipette</i> , 2-20 µl, single channel, with charger, 230V
P3600L-200*	<i>Excel Electronic Pipette</i> , 10-200 µl, single channel, with charger, 230V
P3600L-1200*	<i>Excel Electronic Pipette</i> , 100-1,200 µl, single channel, with charger, 230V
P3600L-BAT	Extra Lithium-ion battery, for all voltages
P3628L	Shelf clip for <i>Excel Electronic Pipette</i> , holds 1
P3630L	Acrylic stand for <i>Excel Electronic Pipette</i> , holds 3
P3935L	Carousel stand for <i>Excel Electronic Pipette</i> , holds 6

*To order 230V units add -230V to the end of the catalog number. Specify cord type by adding -EU, UK or -AU.

Excel™ Multichannel Electronic Pipettes

Available in both eight and twelve channels, the *Excel* multichannel electronic pipettes are ideal for efficiently working in a 96 well format. Both models are available in four overlapping volume ranges, from 0.5 µl to 1,200 µl. A high precision stepping motor controls piston action resulting in exceptional accuracy and precision and minimal pipetting forces. Unusually light for an electronic pipette, the *Excel* fits comfortably in either the right or left hand.

Angled away from the user, the large LCD and simple interface allows users to easily toggle between the six pipetting modes. By selecting the “MD” mode for multi-dispensing the user can quickly fill an entire 96 well plate without having to refill the tips.

Each pipette is self calibrating. The lower portion is easily removed for autoclaving. Complete with shelf clip, Lithium-ion battery and battery charger, the pipette comes ready for use.

- Comfortable and effortless pipetting
- Efficiently pipette into 96 well plates
- User-friendly, featuring six pipetting modes
- Exceptional accuracy and precision
- Fully motorized piston drive



Certified
ISO 9001



SPECIFICATIONS

Volume Range	Tip	Increments	Accuracy	Precision
0.5-10 µl	10 µl	0.1 µl	±4.0 to ±1.0%	≤2.5 to ≤0.4%
2-20 µl	10 µl*	0.1 µl	±5.0 to ±1.0%	≤2.0 to ≤0.3%
10-200 µl	200 µl	1.0 µl	±2.0 to ±0.6%	≤1.0 to ≤0.15%
100-1,200 µl	1,000/1,200 µl	1.0 µl	±1.5 to ±0.5%	≤0.6 to ≤0.15%

*Most manufacturers' 10 µl tips will accurately accommodate 20 µl.

ORDERING INFORMATION

Catalog No.	Description
P3608L-10*	<i>Excel Electronic Pipette</i> , 0.5-10 µl, 8 channel, with charger, 230V
P3608L-20*	<i>Excel Electronic Pipette</i> , 2-20 µl, 8 channel, with charger, 230V
P3608L-200*	<i>Excel Electronic Pipette</i> , 10-200 µl, 8 channel, with charger, 230V
P3608L-1200*	<i>Excel Electronic Pipette</i> , 100-1,200 µl, 8 channel, with charger, 230V
P3612L-10*	<i>Excel Electronic Pipette</i> , 0.5-10 µl, 12 channel, with charger, 230V
P3612L-20*	<i>Excel Electronic Pipette</i> , 2-20 µl, 12 channel, with charger, 230V
P3612L-200*	<i>Excel Electronic Pipette</i> , 10-200 µl, 12 channel, with charger, 230V
P3612L-1200*	<i>Excel Electronic Pipette</i> , 100-1,200 µl, 12 channel, with charger, 230V
P3600L-BAT	Extra Lithium-ion battery, for all voltages
P3628L	Shelf clip for <i>Excel Electronic Pipette</i> , holds one
P3630L	Acrylic stand for <i>Excel Electronic Pipette</i> , holds 3
P3935L	Carousel stand for <i>Excel Electronic Pipette</i> , holds 6

*To order 230V units add -230V to the end of the catalog number. Specify cord type by adding -EU, UK or -AU.

Labpette FX™ Fixed Volume Pipettes

Labpette FX pipettes are ideal for applications where specific volumes are used repeatedly and sterilization by autoclaving is required. Thirty-two pipettes cover the range from 2 µl to 1,000 µl with exceptional accuracy and reproducibility.

An ergonomically designed body and finger rest make these pipettes comfortable to hold, even during extended pipetting sessions. The smooth plunger action and unique "twist-eject" tip removal system require minimal force and reduce the risk of repetitive strain injuries.

Manufactured from lightweight, high impact plastic, the Labpette FX pipettes are extremely durable, offer excellent chemical resistance and retain their high level of accuracy and precision during repeated use. The Labpette FX can be autoclaved at 121°C.

Labpette FX pipettes are color coded for easy identification and proper tip selection. Each pipette is individually tested, supplied with a factory calibration certificate and covered by a limited lifetime warranty.

- Fully autoclavable
- Ergonomically designed handle and finger rest
- Unique "twist-eject" tip removal system reduces stress
- Lifetime warranty



ORDERING INFORMATION

Catalog No.	Volume	Accuracy	Precision	Tip
P3900-2	2 µl	±3.0	±1.5	200 µl
P3900-5	5 µl	±2.0	±1.0	200 µl
P3900-7	7 µl	±1.5	±0.7	200 µl
P3900-10	10 µl	±1.2	±0.5	200 µl
P3900-15	15 µl	±1.0	±0.5	200 µl
P3900-20	20 µl	±0.9	±0.4	200 µl
P3900-25	25 µl	±0.9	±0.4	200 µl
P3900-30	30 µl	±0.9	±0.3	200 µl
P3900-40	40 µl	±0.9	±0.3	200 µl
P3900-50	50 µl	±0.9	±0.3	200 µl
P3900-60	60 µl	±0.9	±0.3	200 µl
P3900-70	70 µl	±0.9	±0.3	200 µl
P3900-75	75 µl	±0.9	±0.3	200 µl
P3900-80	80 µl	±0.9	±0.3	200 µl
P3900-90	90 µl	±0.9	±0.3	200 µl
P3900-100	100 µl	±0.9	±0.3	200 µl
P3900-120	120 µl	±0.8	±0.3	200 µl
P3900-150	150 µl	±0.7	±0.3	200 µl
P3900-200	200 µl	±0.6	±0.2	200 µl
P3900-200A	200 µl	±0.6	±0.2	1,000 µl
P3900-220	220 µl	±0.6	±0.2	1,000 µl
P3900-250	250 µl	±0.6	±0.2	1,000 µl
P3900-300	300 µl	±0.6	±0.2	1,000 µl
P3900-400	400 µl	±0.6	±0.2	1,000 µl
P3900-450	450 µl	±0.6	±0.2	1,000 µl
P3900-500	500 µl	±0.6	±0.2	1,000 µl
P3900-600	600 µl	±0.6	±0.2	1,000 µl
P3900-700	700 µl	±0.6	±0.2	1,000 µl
P3900-750	750 µl	±0.6	±0.2	1,000 µl
P3900-800	800 µl	±0.6	±0.2	1,000 µl
P3900-900	900 µl	±0.6	±0.2	1,000 µl
P3900-1000	1,000 µl	±0.6	±0.2	1,000 µl

P5447 Carousel stand for Labpette FX

See page 28 for recommended tips
Other volumes available, see your Labnet Representative for details.

Labpette R™ Repeating Pipette and Combi-Syringes

The *Labpette R* Repeating Pipette provides accurate and precise repetitive pipetting from the single filling of a disposable tip. Use of the *Labpette R* saves time and reduces the fatigue associated with repetitive pipetting using a standard pipette.

Twenty-nine different volumes between 1 µl and 5,000 µl may be dispensed with this pipette. As many as 48 pipetting steps may be carried out without refilling the reservoir tip. Samples can be dispensed at intervals as fast as one second without compromising accuracy or reproducibility.

The slender body of the *Labpette R* fits comfortably in the natural contour of your hand. The plunger is located on the top of the unit, like that of a standard pipette, for easy access and reduction of hand strain.

The *Labpette R* is simple to use – select the appropriate tip and lock in place. Then choose the desired volume setting with the click stop adjustment dial and fill the tip with the required volume, using the sliding fill lever. To dispense, depress the plunger. For convenience, a chart showing the volume dispensed for each tip size and dial position is located on the body of the pipette.

The *Labpette R* performs best when used with Labnet's *BioFree® Combi-Syringe™* dispenser tips. Available sterile or nonsterile, *Combi-Syringes* are supplied in sturdy, stackable dispenser boxes of 100.

- Quickly dispense up to 48 times without refilling
- Comfortable feel with smooth operation
- Convenient tip selection chart located on body of pipette
- Perfect match with *BioFree® Combi-Syringes*



ORDERING INFORMATION

Catalog No.	Description				
P3000	<i>Labpette R</i> Repeating Pipette, 1 µl to 5,000 µl				
<i>BioFree Combi-Syringe Dispenser Tips</i>					
Cat. No nonsterile	Cat. No. sterile	Tip capacity	Accuracy	Precision	Quantity per box
P3505	P3505-S	0.05 mL	±2.5%	<5.0% to <2.5%	100
P3512	P3512-S	0.5 mL	±0.8%	<0.7% to <0.4%	100
P3515	P3515-S	1.25 mL	±0.8%	<0.5% to <0.2%	100
P3518	P3518-S	2.5 mL	±0.7%	<0.4% to <0.2%	100
P3521	P3521-S	5.0 mL	±0.4%	<0.3% to <0.2%	100
P3524	P3524-S	12.5 mL	±0.3%	<0.3% to <0.1%	100
P3525*	P3525-S	25.0 mL	±0.3%	<0.2% to <0.1%	100
P3527*	P3527-S	50.0 mL	±0.2%	<0.2% to <0.1%	100
P3535	Combination pack, 20 each of 0.5, 1.25, 2.5, 5.0 and 12.5 mL				
P3527-A	Adapter for 25 and 50 mL <i>Combi-Syringes</i>				

* Adapters included

BioFree™ Pipette Tips

Labnet *BioFree* Pipette Tips are designed to fit a wide variety of single and multichannel pipettes. Flexible walls and a series of internal sealing rings ensure a secure fit and minimal force to eject.

Tips are manufactured from high quality, FDA compliant polypropylene in a clean-room environment. Diamond polished, stainless steel molds produce a tip with exceptionally smooth surfaces and extreme accuracy. During the manufacturing process, each lot of tips is tested for accuracy and precision. Tips are also carefully inspected for uniformity and manufacturing irregularities.

BioFree tips are certified to be RNase, DNase and endotoxin free.

- Universal fit
- Crystal clear, high quality polypropylene
- Exceptional accuracy and precision
- RNase, DNase and endotoxin free
- Supplied in bulk or racked boxes
- Extra long 10 µl tips reach the bottom of a 1.5 mL tube



CE

ORDERING INFORMATION

Catalog No.

Description

0.5 µl tips

P1000-10	0.5 - 10 µl pipette tips, bulk pack of 1,000
P1000-10-R	0.5 - 10 µl pipette tips, 10 racks of 96
P1000-10X	0.5 - 10 µl pipette tips, extended length, bulk pack of 1,000
P1000-10X-R	0.5 - 10 µl pipette tips, extended length, 10 racks of 96

200 µl tips

P1000-200	200 µl pipette tips, bulk pack of 1,000
P1000-200-R	200 µl pipette tips, 10 racks of 96

300 µl tips

P1000-300	300 µl pipette tips, bulk pack of 1,000
P1000-300-R	300 µl pipette tips, 10 racks of 96

1,000 µl tips

P1000-1000	1,000 µl pipette tips, bulk pack of 1,000
P1000-1000-R	1,000 µl pipette tips, 10 racks of 100

1,200 µl tips

P1000-1200-R	1,200 µl pipette tips, 10 racks of 96
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5,000 / 10,000 µl tips

P3998	5,000 µl pipette tips, bulk pack of 250
K943	10,000 µl pipette tips, bulk pack of 100

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 a 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



FastPette V2™



FastPette Plus™



SPECIFICATIONS

	Fastpette V2	Fastpette Plus
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*	<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>

*To order 230V units add -230V to the end of the catalog. Specify cord type by adding -EU, UK.

** Universal power supply is suitable for US, EU, UK, and AU plug configurations.

Labmax™ Bottletop Dispensers

The *Labmax* offers the ultimate in dispensing convenience. A new automatic air purging system conveniently dispenses any air prior to dispensing media. A safety shutdown position eliminates dripping and accidental discharge. The integrated swivel neck allows dispensing in any direction without affecting the fit of the dispenser on the bottle threads. Volume adjustment is quick and easy with the locking turn knob. The direct displacement glass piston fully dispenses the reagent with each stroke, ensuring accuracy and eliminating sticking and freezing caused by excess reagent remaining in the reservoir.

The *Labmax* is fully autoclavable and is easily disassembled for cleaning. The standard *Labmax* is available in six volume ranges. A glass piston and cylinder allow for compatibility with most common reagents and organic solvents. A Teflon™ piston and cylinder version is available for use with HF.

- Automatic air purging system
- Integrated swivel neck
- Fully autoclavable
- Manufactured under ISO 9001 guidelines



CE

SPECIFICATIONS

Piston	Direct displacing glass piston
Cylinder	PTFE
Housing	Polypropylene
Volume adjust	Locking turn knob
Accuracy/Reproducibility	±0.7% / ±0.1%
Chemical compatibility	Suitable for most reagents and organic solvents. HF version available for use with hydrofluoric acid.

ORDERING INFORMATION

Catalog No.	Volume Range	Accuracy	Tolerance	Thread
D5370-2	0.3-2.5 mL	0.05 mL	0.02 mL	33 mm ¹
D5370-5	1.0-5.0 mL	0.10 mL	0.04 mL	33 mm ¹
D5370-10	2.0-10.0 mL	0.20 mL	0.08 mL	33 mm ¹
D5370-25	5.0-25.0 mL	0.50 mL	0.15 mL	45 mm ²
D5370-50	10.0-50.0 mL	1.00 mL	0.40 mL	45 mm ²
D5370-100	20.0-100.0 mL	2.00 mL	0.80 mL	45 mm ²
D5370-10-HF*	2.0-10.0mL	0.20 mL	0.08 mL	33 mm ¹
D5370-25-HF*	5.0-25.0 mL	0.50 mL	0.15 mL	45 mm ²
D5370-002	Extended discharge tube, fits -2, -5 and -10 dispensers			
D5370-012	Extended discharge tube, fits -25, -50 and -100 dispensers			
D5377	Calcium chloride drying tube, fits all <i>Labmax</i> dispensers			

* Supplied with 24, 28, 38 and 45 mm adapters

**Supplied with 28, 33 and 38 mm adapters

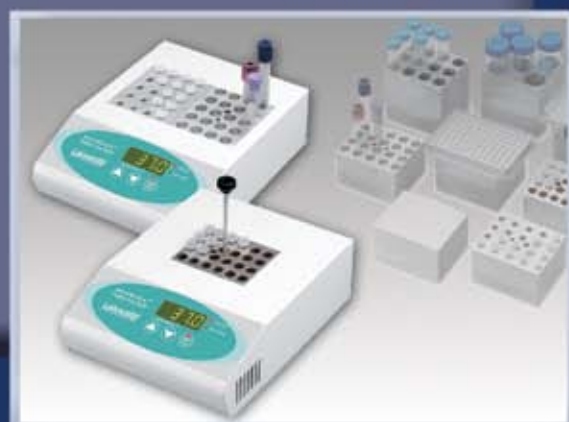
HF = Teflon™ piston and cylinder version for HF and other aggressive solvents.

OVENS, INCUBATORS AND BATHS

Labnet
Labnet International, Inc.



- HYBRIDIZATION OVENS
- HYBRIDIZATION ACCESSORIES
- INCUBATORS
- SHAKING INCUBATORS
- DRY BATH INCUBATORS
- WATER BATHS



ProBlot™ 6/12 and 12S Hybridization Ovens

The *ProBlot 6/12* 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 33).



- 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

CE
CSA Compliant

SPECIFICATIONS

	<i>ProBlot 6/12</i>	<i>ProBlot 12S</i>
Bottle capacity	(6) 6 lg./12 sm. (12) 12 lg./24 sm.	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
H0600A	<i>ProBlot 6</i> Hybridization Oven with 2 large bottles and one pack of mesh, 120V
H1200A*	<i>ProBlot 12</i> Hybridization Oven with 2 large bottles and one pack of mesh, 120V
H1200-SA*	<i>ProBlot 12S</i> Hybridization Oven with built-in shaker, 2 large bottles, 1 pk mesh, 120V

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

*To order 230V units add -230V to the end of the catalog number. Specify cord type by adding -EU or -UK.

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.

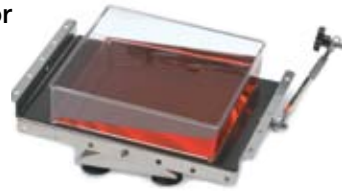
Both of the *ProBlot* Hybridization Ovens will accept a rocking platform when the rotisserie is removed. The platform connects to the rotisserie hub and operates from the same controls as the rotisserie. Optional rotisseries include those for 1.5 mL, 15 mL and 50 mL disposable tubes. Various shaker platforms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



B1124



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
B1124	Bottle rack for six 35 mm diameter bottles
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

CE
CSA Compliant

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	120V or 230V, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
I5211-DS*	Shaking Incubator, Model 211DS, 120V
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)

See page 67 for racks to fit the universal platform

*To order 230V units add -230V to the end of the catalog number. 320V units includes -EU and -UK cords.

**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

CE
CSA Compliant

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	120V or 230V, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
I5311-DS*	Shaking Incubator, Model 311DS, 120V
I5322	Additional shelf
I5331	Flat shaker platform with non-slip rubber mat (39 x 33 cm)
I5330	Shaking platform pre-drilled for flask clamps, clamps sold separately (see page 34)
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

*To order 230V units add -230V to the end of the catalog number. 230V units includes -EU and -UK cords.

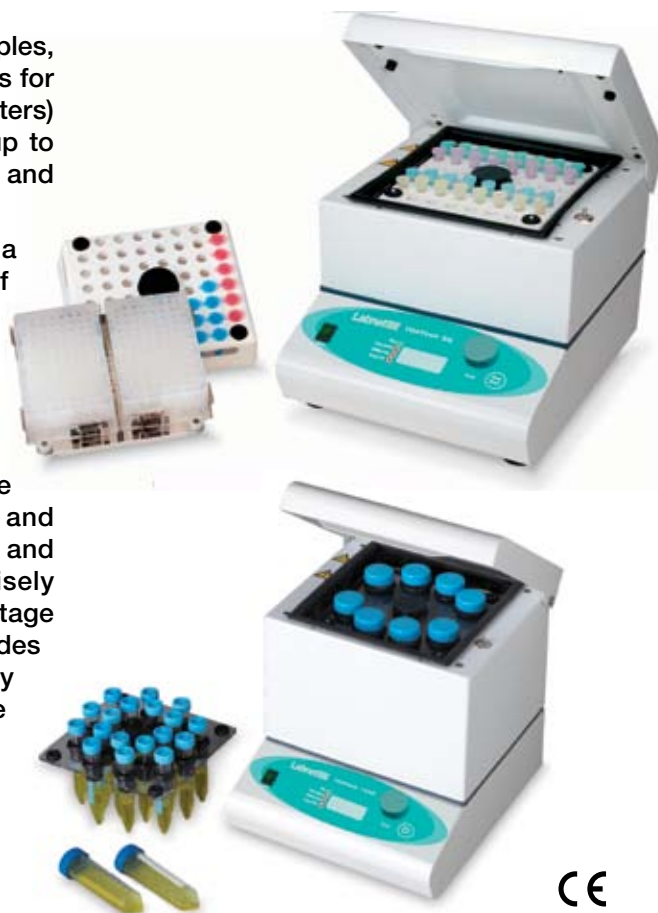
VorTemp 56™ and VorTemp 1550™ Shaking Incubators

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
CSA Compliant

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 - 1,400* 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	120V~, 60 Hz or 230V~, 50 Hz	120V~, 60 Hz or 230V~, 50 Hz

*Maximum speed for 230V unit is 1,200 rpm

ORDERING INFORMATION

Catalog No.

Description

S2056A*	<i>VorTemp 56</i> Shaking Incubator for microtubes and microplates, 120V
S2050A*	<i>VorTemp 1550</i> Shaking Incubator for 15 and 50 mL tubes, 120V
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

*To order 230V units add -230V to the end of the catalog number. 230V units includes -EU and -UK cords.

Mini Incubator and Mini Water Bath

The *Mini Incubator* and *Mini Water Bath* are small units designed for personal use, small laboratories and classrooms. Each features a broad temperature range to meet a variety of small sample applications.

Wrap-around heating elements ensure even heating and uniformity within the *Mini Incubator*. A hydraulic thermostat controls heating and temperature stability. A thermometer port in the top of the unit allows users to monitor temperature. The large window in the door gives a clear view of the contents which can include up to 48 petri dishes or 28 standard microplates. Shelves can be placed at two points within the corrosion resistant chamber. A cord port allows small mixers to be placed in the incubator.

The *Mini Water Bath* has a 6 liter capacity to accommodate test tube racks or up to three 250 mL flasks. A powerful 550W heater allows for quick temperature adjustment. A hydraulic thermostat ensures accurate temperature control. The seamless, stainless steel chamber is corrosion resistant and easy to clean. A stainless steel gable cover helps to retain heat in the bath and control evaporation. A clip is included for suspending a thermometer in the bath.



CE
CSA Compliant

- Ideal for small laboratories and classrooms
- Broad temperature range
- Cord port on Mini incubator allows for use of small mixers
- Stainless steel gable cover included with Mini Water Bath

SPECIFICATIONS

	<u>Mini Incubator</u>	<u>Mini Water Bath</u>
Temperature range	Ambient +5° to 60°C	Ambient +5° to 100°C
Capacity	9.2 liters/0.375 cu. ft.	6 liters
Controls	Analog	Analog
Exterior dimensions (W x D x H)	28.5 x 28 x 33.5 cm 11.2 x 11 x 13.2 in	36 x 28 x 32 cm 14 x 11 x 13 in
Interior dimensions	12 x 20 x 20 cm 9 x 7.9 x 7.9 in	11.2 x 11 x 13.2 in 12.6 x 6.7 x 6.9 in
Weight	8.3 kg/18.4 lb	7.7 kg/17 lb
Electrical	120V~ or 230V~, 50/60 Hz	120V~ or 230~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
I5110A	<i>Mini Incubator, 120V</i>
I5110-MLR*	<i>Mini Incubator with Mini Lab Roller and rotisseries for 1.5, 15 and 50 mL tubes,</i>
I5110-SHELF	<i>Additional shelf, 22 x 18 cm</i>
W0020-110C	<i>Non-toxic, Teflon coated thermometer for -20° to 110°C, with 1 resolution, 305 mm long, 76 immersion</i>
W1106**	<i>Mini Water Bath with stainless steel gable cover and thermometer clip 120V</i>

*To order 230V units add -230V to the end of the catalog number. Specify cord type by adding -EU or -UK.

** To order 230V units add -230V to the end of the catalog number. 230V units includes EU and UK cords.

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 39) 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	120V~ or 230V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
D1100*	<i>AccuBlock</i> Digital Dry Bath, single block capacity, 120V
D1200*	<i>AccuBlock</i> Digital Dry Bath, dual block capacity, 120V
See page 39 for available block formats	

*To order 230V units add -230V to the end of the catalog number. 230V units includes -EU and -UK cords.

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.



CE

D1105A-Rack

- 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

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 on to 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*	<i>AccuBlock Mini</i> Digital Dry Bath, 12 x 1.5 mL, 120V

*To order 230V units add -230V to the end of the catalog number. 230V units includes EU and UK cords.

LABNET INTERNATIONAL, INC.

ELECTROPHORESIS AND MOLECULAR BIOLOGY

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- PLATE SEALERS
- 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.



CE
CSA Compliant

- 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

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*	<i>AccuSeal</i> Semi Automated Plate Sealer, includes adapters for standard and deepwell microplates, 120V
PS1000-PCR	<i>Accuseal</i> Adapter for sealing assay and PCR plates

*To order 230V units add -230V to the end of the catalog number. 230V units includes -EU and -UK cords.

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
CSA Compliant



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*	<i>MultiGene Gradient</i> Thermal Cycler with 96 well block, 120V
TC6000-G*	<i>MultiGene Gradient</i> Thermal Cycler with 60 well block, 120V
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 230V units add -230V to the end of the catalog number. 230V units includes -EU and -UK cords.

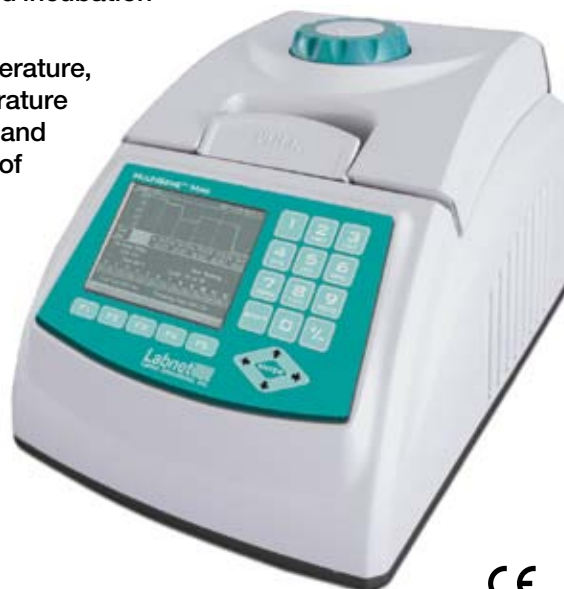
MultiGene Mini Personal Thermal Cycler

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
CSA Compliant

- 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 230V~, 50/60 Hz
Max. number of cycles	99	Electrical	230V~ or 120V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
TC020-24*	<i>MultiGene Mini</i> Personal Thermal Cycler with 24 x 0.2 mL tube block, 120V
TC050-18*	<i>MultiGene Mini</i> Personal Thermal Cycler with 18 x 0.5 mL tube block, 120V

*To order 230V units add -230V to the end of the catalog number. 230V units includes -EU and -UK cords.

Enduro™ Modular Vertical Gel System

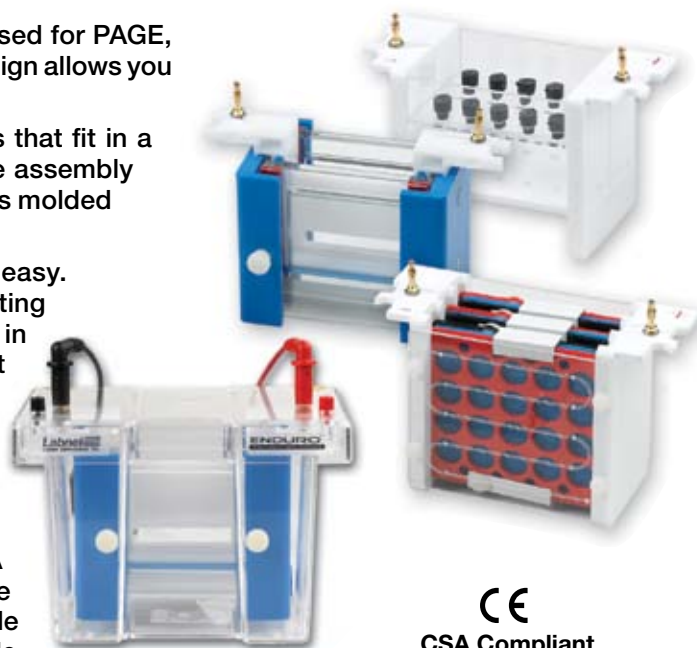
Labnet's *Enduro* Modular Vertical Gel System can be used for PAGE, electroblotting and 2D electrophoresis. The modular design allows you to purchase just the components you need.

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™



CE
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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 (WxDxH)	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

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Enduro 7.7



Enduro 7.10



Enduro 10.10



Enduro 15.10



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, 10bp 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.



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- 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*	Enduro Gel XL, 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 Geltray 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

*To order 230V units add -230V to the end of the catalog number. 230V units includes -EU and -UK cords.

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

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SPECIFICATIONS

	<i>Model 300V</i>	<i>Model 250V</i>
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	120V~, 50	120V~, 50Hz
Catalog No.	E0303	E0203

*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	120V~, 50 Hz
Catalog No.	U1000*

*To order 230V units add -230V to the end of the catalog number. 230V units includes -EU and -UK cords.



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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



CE
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SPECIFICATIONS

Speed range	120V: 0 - 3,400 rpm 230V: 0 - 2,850 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	120V~, 60 Hz or 230V~, 50 Hz

ORDERING INFORMATION

Catalog No.	Description
S0200*	VX-200 Vortex Mixer with CombiCup head, 120V
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

*To order 230V units add -230V to the end of the catalog number. Specify cord type by adding -EU or -UK.

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
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SPECIFICATIONS

Speed range*	100 - 1,400 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	120V~, 60 Hz or 230V~, 50 Hz

*Maximum speed for 230V unit is 1,200rpm

ORDERING INFORMATION

Catalog No.	Description
S2020-M60-B*	<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*	<i>Orbit P2</i> Digital Shaker with platform for 2 microplates, 230V
S2020-P4-B*	<i>Orbit P4</i> Digital Shaker with platform for 4 microplates, 230V

*To order 230V units add -230V to the end of the catalog number. 230V product includes both -EU and -UK power cords.



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.

- 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



S2030-10



S2030-13
and K566

CE
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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	120V~, 60 Hz or 230V~, 50 Hz

ORDERING INFORMATION

Catalog No.	Description
S2030-300-B*	Orbit 300 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

*To order 230V units add -230V to the end of the catalog number. 230V product includes both -EU and -UK power cords.

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.



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- 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

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	120V~ or 230V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
S2030-LS-B*	<i>Orbit LS</i> Low Speed Orbital Shaker with flat platform (30 x 30 cm), 120V
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

*To order 230V units add -230V to the end of the catalog number. 230V product includes both -EU and -UK power cords.

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 1L, 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	120V~, 60 Hz or 230V~, 50 Hz

CE
CSA Compliant

ORDERING INFORMATION

Catalog No.	Description
S2030-1000-B*	<i>Orbit 1000</i> Digital Shaker without platform, 120V
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 36)
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)

*To order 230V units add -230V to the end of the catalog number. 230V product includes both -EU and -UK power cords.

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 2L or six 1L 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



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/260 Hz or 230V~, 50 Hz
Electrical	120V~, 60 Hz or 230V~, 50 Hz

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ORDERING INFORMATION

Catalog No.	Description
S2040-1900*	Orbit 1900 Digital Shaker, without platform, 120V
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)

*To order 230V units add -230V to the end of the catalog number. 230V product includes both -EU and -UK power cords.

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.



- Gyrotary 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
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SPECIFICATIONS

Model	<i>GyroTwister</i>	<i>GyroTwister Adjustable</i>
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	120V~ or 230V~, 50/60 Hz	120V~ or 230V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
S1000-B*	<i>GyroTwister</i> 3-D shaker with 30 x 30 cm non-slip platform and dimpled tube mat, 120V
S1000-A-B*	<i>GyroTwister Adjustable</i> , as above, with adjustable tilt angle, 120V
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

*To order 230V units add -230V to the end of the catalog number. 230V product includes both -EU and -UK power cords.

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



SPECIFICATIONS

	<u>GyroMini</u>	<u>Enduro MiniMix</u>
Speed range	24 rpm*	18 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 230V version is slightly different.

ORDERING INFORMATION

Catalog No.	Description
S0500*	<i>GyroMini</i> 3-D shaker with dimpled rubber mat, 120V
S0600*	<i>Enduro MiniMix</i> 3-D shaker with non-slip mat and two large blotting boxes, 120V
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

*To order 230V units add -230V to the end of the catalog number. Specify cord type by adding -EU or -UK.



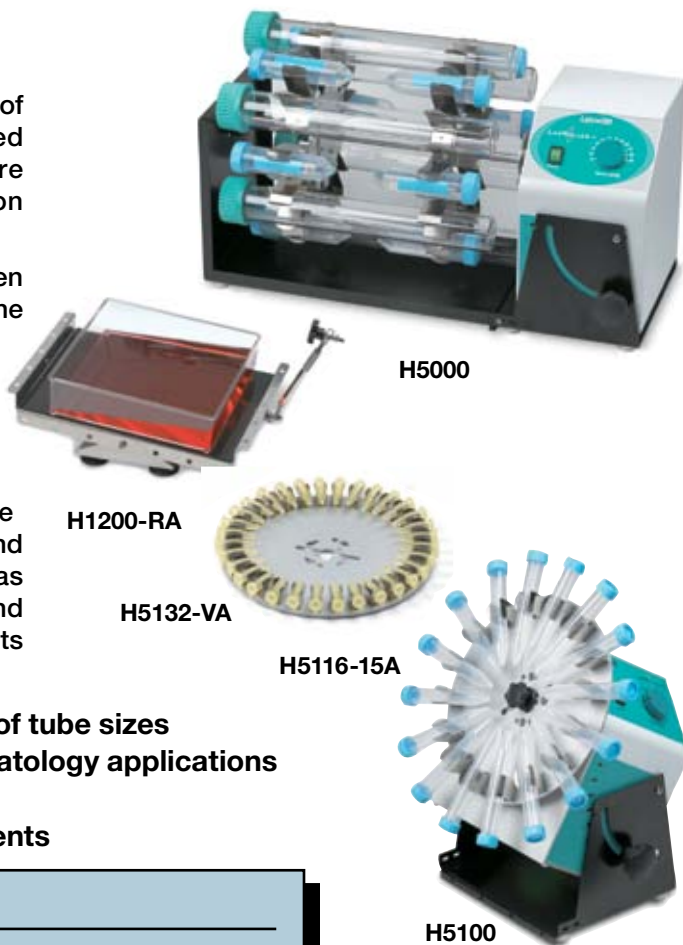
LabRoller™ Rotator

Labnet's *LabRoller* Rotators are ideal for a wide range of applications on the bench or in temperature controlled environments. (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 in both units 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



CE
CSA Compliant

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	120V~ or 230V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
H5000-230V*	LabRoller Rotator (order rotisserie/carousel separately), 120V
H5100-230V*	Compact LabRoller Rotator (order carousel separately), 120V
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 33 for hybridization bottles and mesh.

*To order 230V units add -230V to the end of the catalog number. 230V product includes both -EU and -UK power cords.

Revolver™ Rotator

The unique design of the Labnet *Revolver* allows for mixing tubes horizontally, vertically, or at any position in between, simply by turning the rotisserie plate.

Rotating tubes horizontally produces a gentle mixing motion for applications such as hybridization. Turning the rotisserie plate 90°, so that the tubes are positioned vertically results in an end over end tumbling action, such as that required for mixing samples in blood tubes. Any position between these two extremes can be selected to produce the desired level of agitation.

Each rotisserie 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. Rotisserie plates may be mixed and matched.

With its compact, portable design, the *Revolver* is easily transported from the bench to the cold room or incubator. 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 unit. Rotisserie assemblies are also available for 15/10/7/5 mL tubes as well as 50 mL tubes.

- Unique adjustable rotisserie assemblies
- Wide range of motions - from gentle rotating to end over end tumbling
- Useful for Molecular Biology, Histochemistry, Biochemistry and Clinical applications
- Safe for cold room and incubator use



CE
CSA Compliant

SPECIFICATIONS

Speed range*	Fixed, 18 rpm
Rotation axis	Continuously adjustable, 0 - 90°
Ambient operating temperature	+4° to 65°C
Dimensions (W x D x H)	9.4 x 5 x 6 in/23.9 x 12.7 x 15.24 cm
Weight	4.4 lb/2.0 kg
Electrical	120V~ or 230V~, 50/60 Hz

*Speed of 230V unit is 20 rpm.

ORDERING INFORMATION

Catalog No.	Description
H5600*	<i>Revolver</i> Rotator with rotisserie for 36 x 1.5/2.0 mL tubes, 120V
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) and 16 5/7 mL tubes
H5600-50	Rotisserie assembly for 6 x 50 mL tubes

*To order 230V units add -230V to the end of the catalog number. Specify cord type by adding -EU or -UK.

Mini Lab Roller™ Rotator

Simple, yet versatile, the *Mini LabRoller Rotator* is designed for mixing samples in both a horizontal and vertical plane. The unit accepts a broad assortment of tube sizes as well as microplates. Safe for cold room or incubator use, this mixer meets a variety of needs in areas such as biochemistry, molecular biology, clinical testing and histochemistry.

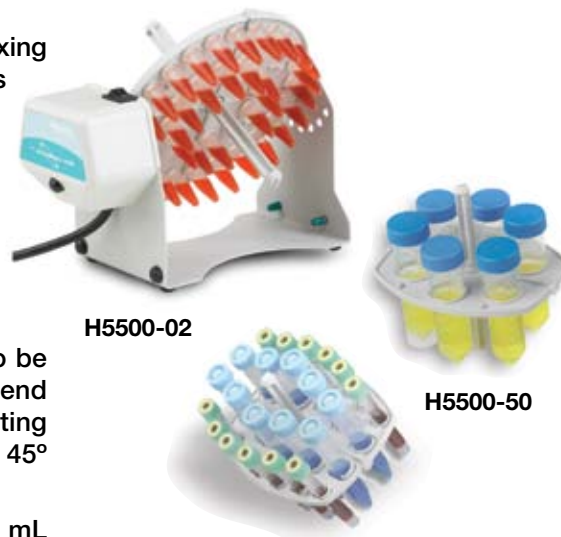
As its name suggests, the *Mini LabRoller* is compact in design. Lightweight, and portable, it is easily moved from the bench to a hood.

The unique design of this 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 or tilting the instrument. The rotisseries can also be made to rock at 20°, 45° or 60°. Rotisserie speed is fixed at 24 rpm.

The *Mini LabRoller* is supplied with a rotisserie for 36 x 1.5/2.0 mL tubes. Two optional rotisseries are available. The first holds 10 standard or conical 15 mL tubes (or 15-16 mm diameter) as well as twelve 12 - 13 mm diameter tubes. The other holds six 50 mL conical tubes. Microplates can be used with any of the rotisseries

For temperature controlled incubations, the *Mini LabRoller* can be used inside Labnet's *Mini Incubator*.

- Small and compact
- Wide range of motions from gentle rotating to end over end tumbling
- Interchangeable rotisseries
- Safe for cold room and incubator use

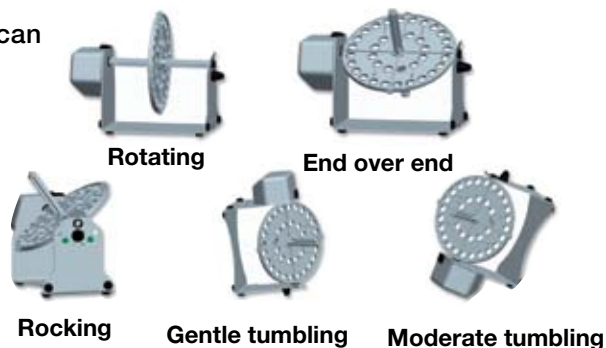


H5500-02

H5500-50

H5500-15

CE
CSA Compliant



Rocking

Gentle tumbling

Moderate tumbling

SPECIFICATIONS

Speed range*	Fixed, 24 rpm
Rotation Axis	Adjustable, 0° to 90°
Ambient operating range	+4° to 65°C
Dimensions (W x D x H)	8.4 x 4 x 5 in/47 x 21.3 x 10.2 x 12.6 cm
Weight	4 lb/1.8 kg
Electrical	120V~, 50/60 Hz 230V~, 50/60 Hz

*Speed of 230V unit is 20 rpm.



I5110-MLR

ORDERING INFORMATION

Catalog No.	Description
H5500	<i>Mini LabRoller</i> Rotator with rotisserie for 36 x 1.5/2.0 mL tubes
I5110-MLR (listed below)	<i>Mini LabRoller/Mini Incubator Combo</i> , includes both units and the rotisseries
H5500-02	Rotisserie for 36 x 1.5/2.0 mL tubes (supplied with unit)
H5500-15	Rotisserie vor 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

*To order 230V units add -230V to the end of the catalog number. Specify cord type by adding -EU or -UK.

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
CSA Compliant

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 - 1,400* 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	120V~, 60 Hz or 230V~, 50 Hz	230V~, 50 Hz or 120V~, 60 Hz

*Maximum speed for 230V unit is 1,200 rpm

ORDERING INFORMATION

Catalog No.	Description
S2056A*	<i>VorTemp 56</i> Shaking incubator for microtubes and microplates, 120V
S2050A*	<i>VorTemp 1550</i> Shaking incubator for microtubes and microplates, 120V
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

*To order 230V units add -230V to the end of the catalog number. Specify cord type by adding -EU or -UK.

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
CSA Compliant

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	120V~, 50/60 Hz 230V~, 50/60 Hz

ORDERING INFORMATION

Catalog No.	Description
S2025-B*	<i>ProBlot Rocker 25</i> with single platform (26 x 20 cm), 120V
S2025-D-B*	<i>ProBlot Rocker 25D</i> with double platform (26 x 20 cm), 120V
S2025-XL-B*	<i>ProBlot Rocker 25XL</i> with large single platform (30 x 30 cm), 120V
S2025-XLD-B*	<i>ProBlot Rocker 25XLD</i> with large double platform (30 x 30 cm), 120V
S2025-T	Elastic tie downs, pack of 4

*To order 230V units add -230V to the end of the catalog number. 230V product includes both -EU and -UK power cords.

Deluxe ProBlot™ Rocker 35

Labnet's ProBlot 35 was developed for those laboratories requiring a larger platform area and precise control over rocking parameters.

Both speed and degree of tilt are adjustable across a broad range to provide the exact level of agitation required for all types of samples. The ProBlot 35 is equipped with a 2 hour timer that can also be set for continuous operation.

The heavy duty motor and stainless steel rocking platform can support loads of over 15 pounds. Solid state speed control ensures that the rocker operates at constant speed regardless of voltage fluctuations or load.

The ProBlot 35 is available with a single platform, or for added workspace, two stacked platforms. Each platform is covered with a non-slip rubber mat to keep sample containers in place. The rocker can be used in environments from 4° to 65°C, making it safe for cold room or incubator use.

- Adjustable tilt and speed for exact level of agitation
- Two hour timer with hold position
- Heavy-duty motor supports larger loads
- Corrosion resistant stainless steel platforms
- Safe for incubator and cold room use



S2035-D



S2035

CE
CSA Compliant

SPECIFICATIONS

Speed range	4 - 160 tilts/minute
Timer	0 - 2 hours or continuous
Motion	Rocking
Tilt range	Adjustable, ±20°
Clearance between platforms	3.5 in/9 cm
Maximum Load	15.4 lb/7 kg
Ambient operating range	+4° to 65°C
Dimensions (W x D x H)	14 x 13 x 6.5 in/35.6 x 33 x 16.5 cm
Weight	17 lb/7.7 kg
Electrical	120V~, 60 Hz or 230~, 50 Hz

ORDERING INFORMATION

Catalog No.	Description
S2035*	Deluxe ProBlot Rocker 35, single platform (35.6 x 28 cm)
S2035-D*	Deluxe ProBlot Rocker 35D, double platform (35.6 x 28 cm)

*To order 230V units add -230V to the end of the catalog number. Specify cord type by adding -EU or -UK.

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 1L 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.



Shown with
S2031-12



S2031-13

- 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



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



CSA Compliant

ORDERING INFORMATION

Catalog No.	Description
S2030-RC-B*	<i>Pro 30</i> Reciprocal Shaker without platform, 120V
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, bottle or tube racks (see tube racks on page 67)
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)

* To order 230V units add -230V to the end of the catalog number. 230V product includes both -EU and -UK power cords.

RACKS, BOXES AND PLATES

Labnet
Labnet International, Inc.



- TUBE STORAGE BOXES
- TUBE RACKS
- SAMPLE COOLERS
- MICROPLATES



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 with stand 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

Thermal Cycler Plates

Using a plate that properly fits the thermal cycler block is essential for uniform, reliable results. Labnet offers plates to securely fit two popular thermal cyclers, MJ Research and Hybaid, as well as the Labnet *MultiGene* and *MultiGene II*.

The MJ Research and Hybaid plates are made of thin, flexible polycarbonate for fast heat transfer. The plates are cleanroom manufactured, individually wrapped and supplied in boxes of 50.

The *MultiGene* plates are constructed of virgin polypropylene. These thin walled plates are available with an elevated skirt in packs of 50 or without the skirt in packs of 100. Sealing films, compression mats and 0.2 mL tubes and caps are also available. See page 43 for details.



R9765 / R9767
MultiGene Plates

ORDERING INFORMATION

Catalog No.	Description
P9765	96 well thermal cycling plate, 150 µl/well, fits MJ Research thermal cyclers, pack of 50
P9767	96 well thermal cycling plate, 150 µl/well, fits Hybaid thermal cyclers, pack of 50
TC96-NS-50	96 well plate, polypropylene, no skirt, pack of 100
TC96-ES-50	96 well plate, polypropylene, elevated skirt, pack of 50

Thermal Cycler Accessories

Accessories are available for use with the *MultiGene* Gradient Thermal Cycler (pg 43) that includes 0.2 mL tube strips and caps as well as individual 0.2mL tubes and 0.5 mL PCR tubes. Thermal and aluminum sealing tape for 96 well plates are also available in packs of 100.



TCST-02

T020-02C

ORDERING INFORMATION

Catalog No.	Description
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
TC050-05F-A	0.5 mL flat cap PCR tubes, assorted colors, pack of 1,000
TC050-05F-C	0.5 mL flat cap PCR tubes, clear, 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

Deep Well Microplates

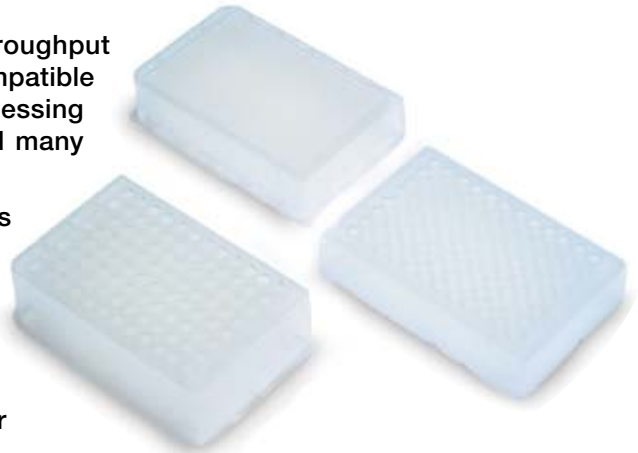
These deep well microplates are ideal for high throughput applications and storage of samples. They are compatible with Labnet's *AccuSeal* Plate Sealer, sample processing workstations, microplate processing equipment and many microplate centrifuge rotors.

Plates with 0.5 and 1.0 mL well volumes have round wells while 2.0 mL plates have square wells. All wells have conical bottoms to aid in sample recovery.

All of the plates are available in polypropylene for excellent temperature and chemical resistance. They can be frozen or autoclaved, and when used with sealing mats (available separately), are perfect for freezer storage of samples.

Sealing mats are available for the 96 well plates. The mats seal each well individually.

Plates are DNase/RNase free and supplied sterile or nonsterile. All plates fit in the stainless steel freezer storage racks listed in the ordering information below.



PS1000

(See page 42 for details on the *AccuSeal* Plate Sealer.)

ORDERING INFORMATION

Catalog No.

Description

0.5 mL Plates

P9605	Plate, 96 x 0.5 mL/round well, polypropylene, nonsterile, pack of 20
P9606	Plate, 96 x 0.5 mL/round well, polypropylene, sterile, pack of 20
P9610	Sealing mat for P9605/P9606, nonsterile, pack of 50
P9611	Sealing mat for P9605/P9606, sterile, pack of 50

1.0 mL Plates

P9615-50	Plate, 96 x 1.0 mL/round well, polypropylene, nonsterile, pack of 50
P9616-50	Plate, 96 x 1.0 mL/round well, polypropylene, sterile, pack of 50
P9618-50	Sealing mat for P9615-50 plates, nonsterile, pack of 50
P9619-50	Sealing mat for P9616-50 plates, sterile, pack of 50

2.0 mL Plates

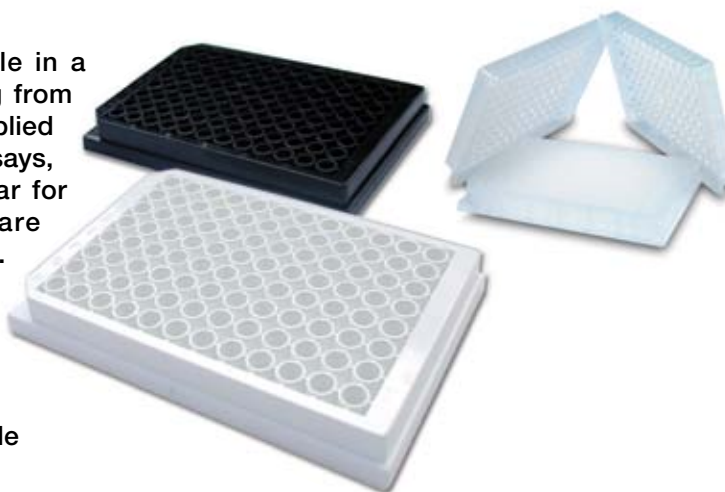
P9635	Plate, 96 x 2.0 mL/square well, polypropylene, nonsterile, pack of 50
P9636	Plate, 96 x 2.0 mL/square well, polypropylene, sterile, pack of 50
P9638	Sealing mat for 96 square well plates, nonsterile, pack of 50
P9639	Sealing mat for 96 square well plates, sterile, pack of 50

Assay Plates

Labnet's solid assay plates are available in a 96 well format with well volumes ranging from 225 μ l to 325 μ l. The assay plates are supplied in white, for luminescence/fluorescence assays, black for fluorescence readings and clear for colorimetric assays. All of the plates are manufactured from high quality polystyrene.

The clear plates are supplied in both polystyrene and polypropylene with flat, round or v-bottom wells.

All of the solid assay plates are supplied in packages of 100. Bar coding is available upon request.



ORDERING INFORMATION

Catalog No.	Description
P9725	Plate, 96 x 350 μ l, polystyrene, white, 4 bags of 25
P9728	Plate, 96 x 350 μ l, polystyrene, black, 4 bags of 25
P9732	Plate, 96 x 325 μ l, polypropylene, clear, round bottom, 10 bags of 10
P9734	Plate, 96 x 325 μ l, polystyrene, clear, flat bottom, 10 bags of 10
P9735	Plate, 96 x 325 μ l, polystyrene, clear, round bottom, 10 bags of 10

Krystal™ Plates

The polycarbonate *Krystal* microplates are supplied white for luminescence/fluorescence or black for fluorescence assays. Clear well bottoms allow for use with instruments that read above or below the plate.

The plates feature a standard 96 well format with a well volume of 350 μ l. Both the black and white plates are supplied tissue culture treated and individually wrapped with lids.

Bar coding is available for all plates upon request.



ORDERING INFORMATION

Catalog No.	Description
P9801	<i>Krystal</i> plate, 96 x 350 μ l, white, tissue culture treated, individually wrapped with lid, pack of 100
P9803	<i>Krystal</i> plate, 96 x 350 μ l, black, tissue culture treated, individually wrapped with lid, pack of 100

Krystal™ 2000 Plates

The premium polycarbonate *Krystal 2000* plates have been optimized for luminescence and fluorescence assays. A patented manufacturing process provides for clear, individual wells in an opaque matrix. The special design of the plate eliminates well-to-well light cross talk, improving the accuracy and precision of photometric readings.

Krystal 2000 plates are supplied in a 96 x 350 µl/well format. Clear wells allow for measurements to be performed with both top and bottom reading instruments. The white matrix provides for maximum reflectivity, allowing high sensitivity luminescence assays. The black matrix absorbs light to minimize background interference in fluorometric assays.

Plates are available as tissue culture treated. The tissue culture plates are supplied with lids and individually wrapped. All plates are supplied in packages of 100.



ORDERING INFORMATION

Catalog No.	Description
P9812	<i>Krystal 2000</i> plate, 96 x 350 µl, white, with lid, tissue culture treated, individually wrapped pack of 100
P9815	<i>Krystal 2000</i> plate, 96 x 350 µl, black, with lid, tissue culture treated, individually wrapped, pack of 100

Krystal™ 24 Plates

Krystal 24 plates feature a 24 well format in the footprint of a standard 96 well plate.

The plates are black for fluorescence assays and have clear bottoms for use with instruments that read above or below the plate.

The wells of the *Krystal 24* plates have a 3.0 mL volume with a large surface area for efficient cell growth. The plates are supplied tissue culture treated and individually wrapped with lids in packages of 56.

Bar coding is available upon request.



ORDERING INFORMATION

Catalog No.	Description
P9835	<i>Krystal 24</i> plate, 24 x 3 mL, black, with lid, tissue culture treated, individually wrapped, pack of 56

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