

MultiGene™ Gradient Thermal Cycler

Optimize your amplification

A Gradient Thermal Cycler for the price of a regular Thermal Cycler!



- Easy programming
- Programming features range from single temperature soaks to sophisticated multi-step programs
- Gradient capability – spread horizontally, allowing 12 temperatures (11 for 60-well block) to be evaluated simultaneously (maximum spread of 24°C across the block)
- Removable block

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
MultiGene Gradient Thermal Cycler with 96-well block	NL-TC-9600-G	\$5,868.00	\$3,895.00

NEW

Mandel Vortex Mixer

Fast, efficient mixing with minimal vibration



FREE BONUS

FREE head attachment with purchase of vortexer

- True circular orbit with even vortexing distribution
- CombiCup™ head (standard with unit) accepts many tubes sizes
- Full range of accessories available

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Mandel Vortex Mixer with CombiCup™ head attachment	DEL-1200	\$250.00	\$195.00
Head attachment for 24 x 1.5/2.0mL tubes, 24 x 0.5mL tubes and 32 x 0.2mL tubes (or 4 PCR strips)	NL-S-0200-21	38.00	–
Head attachment for 1 microplate or 64 x 0.2mL tubes or 8 PCR strips	NL-S-0200-22	46.00	–
Head attachment for 8 x 15mL and 8 x 12/13mm diameter tubes	NL-S-0200-23	46.00	–
Head attachment for 6 x 50mL tubes	NL-S-0200-24	46.00	–
Head attachment for 12 x 1.5/2.0mL tubes, held horizontally	NL-S-0200-25	46.00	–
Head attachment for 4 x 15mL tubes, held horizontally	NL-S-0200-26	89.00	–
Head attachment for 2 x 50mL tubes, held horizontally	NL-S-0200-27	89.00	–

*FREE head attachment included with purchase of VX-200



Revolver 360° Sample Mixer

Your best shot for superior sample mixing!

- Full 360° rotation
- 0 – 90° mixing angle for gentle rolling or end-over-end tumbling
- Cold room and incubator compatible
- Includes 2 x 18-place rotisseries for 1.5 / 2.0mL tubes



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Revolver Sample Mixer with 36 x 1.5/2.0mL tube rotisserie	NL-H-5600	\$425.00	\$318.75
Rotisserie for 10 x 15mL tubes and 16 x 5/7mL tubes	NL-H-5600-15	51.00	–
Rotisserie for 6 x 50mL tubes	NL-H-5600-50	51.00	–
Rotisserie for 36 x 1.5/2.0mL tubes	NL-H-5600-02	51.00	–

Orbit™ LS

Low speed shaker

- 19mm orbit for blotting, gel staining, gel washing and general mixing
- Economical analogue control with easy-turn knobs
- Platform included
- Dimensions (W x D x H): 25.5 x 32 x 16cm
- Max. load 11lb./5kg



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Orbit LS analogue shaker with platform	NLS-2030-LS-B	\$1,066.00	\$799.50

Orbit™ 300

Multipurpose digital vortexer

- Will accommodate up to 4 deep well microplates
- 3mm orbit for shaking, mixing or vortexing small volumes
- Dimensions (W x D x H): 25.6 x 31.7 x 12.7cm
- Max. load 12.3lb./5.6kg



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Orbit 300 digital shaker without platform	NLS-2030-300-B	\$1,438.00	\$1,078.50
4 microplates platform	NLS-2030-10	192.00	–
Flat platform with nonslip mat	NLS-2030-12	199.00	FREE
Flasks, bottles, etc., platform	NLS-2030-13	343.00	–

Orbit™ 1000

Multipurpose digital shaker

- 4 stainless steel platform configurations
- 19mm orbit for aeration of cultures & staining gels
- Adjustable speed over a broad range
- Dimensions (W x D x H): 25.6 x 31.8 x 12.7cm
- Max. load 8.8lb./4kg



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Orbit 1000 digital shaker without platform	NLS-2030-1000-B	\$1,321.00	\$990.75
Flat platform with rubber mat	NLS-2031-12	185.00	FREE
Two stacked platforms	NLS-2031-12D	302.00	–
Universal spring-loaded platform	NLS-2031-13	343.00	–

Orbit™ 1900

Large platform shaker for heavy loads

- Designed for continuous use and heavy loads
- 19mm orbit for aeration and mixing of large samples
- Dimensions (W x D x H): 38.9 x 42.7 x 15.8cm
- Max. load 22lb./10kg



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Orbit 1900 heavy-duty shaker without platform	NLS-2040-1900	\$2,341.00	\$1,755.75
Flat platform with nonslip mat	NLS-2040-12	322.00	FREE
Universal platform	NLS-2040-15	562.00	–
Flask clamp platform	NLS-2040-18	404.00	–

GyroTwister™ 3-D

Three dimensional shaker

- Three-dimensional, gentle, shaking motion
- Two versions available: the GyroTwister (fixed) and the GyroTwister (adjustable)
- Both are supplied with 30 x 30cm platform with non-slip mat and dimpled mat for tubes
- Both feature variable speed across a wide range (3 – 60rpm)
- Both are safe for use in temperatures from 4° to 70°C
- Maximum load: 5kg



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
GyroTwister 3-D Shaker with 30 x 30cm platform, dimpled mat, and elastic tie downs	NL-S-1000-B	\$1,301.00	\$975.75
GyroTwister, as above, with adjustable tilt angle	NL-S-1000-A-B	1,430.00	1,072.50
Double platform kit (includes 30 x 30cm platform, posts, and hardware)	NL-S-1000-30	165.00	-
40 x 40cm, large platform	NL-S-1000-40	192.00	-
50 x 50cm, extra large platform	NL-S-1000-50	220.00	-
Dimpled rubber mat	NL-S-1000-M	50.00	-

Digital Dry Bath & Blocks

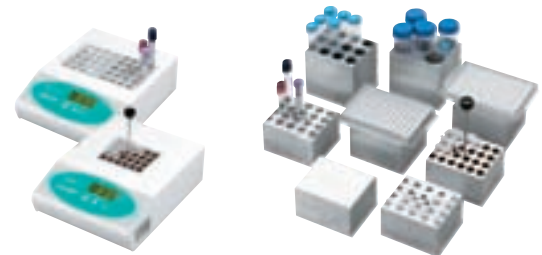
- Broad temperature range from ambient +5° to 150°C
- Microprocessor controlled (RS232 port)
- Digital display
- Single and dual block models

PURCHASE A SINGLE OR DUAL DRY BATH AND ONE BLOCK, RECEIVE

2nd Block FREE!

PROMO CODE: MS-BLOCK

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Digital Dry Bath, single block capacity	NL-D-1100	\$402.00	\$301.50
Digital Dry Bath, dual block capacity	NL-D-1200	512.00	384.00
Block, 48 x 0.2mL tubes	NL-D-1102	111.00	83.25
Block, 20 x 2.0mL tubes	NL-D-1102A	104.00	78.00
Block, 24 x 0.5mL tubes	NL-D-1105	104.00	78.00
Block, 24 x 1.5mL tubes	NL-D-1105A	104.00	78.00
Block, 12 x 15mL centrifuge tubes	NL-D-1115-TALL	104.00	78.00
Block, 5 x 50mL centrifuge tubes	NL-D-1150-TALL	104.00	78.00
Dual Block, 96-well microtitre plate or 4 slides (for dual block unit only)	NL-D-1296	194.00	145.50
Dual Block, 96-well PCR plate, skirted or non-skirted (for dual block unit only)	NL-D-1296-PCR	236.00	177.00



AccuBlock Mini

Compact heating performance

- Accurate temperature control to 100°C
- 12 x 1.5mL Tube capacity
- Precision LCD digital display
- AccuRack transfer rack included

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
AccuBlock Mini Digital Dry Bath, 12 x 1.5mL,	NL-D-0100	\$347.00	\$260.25

Orbit™ P2, P4

Digital microtube and microplate shakers

- Large capacity – process up to 4 microplates
- 3mm orbit for resuspending, homogenizing or vortexing

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Orbit P2 digital shaker for 2 plates	NL-S-2020-P2-B	\$1,029.00	\$771.75
Orbit P4 digital shaker for 4 plates	NL-S-2020-P4-B	1,145.00	858.75



Orbit™ P2

Orbit™ P4

VorTemp 56™ and VorTemp 1550™ Shaking Incubators

- Shake and incubate samples simultaneously
- Temperature range: Ambient +5°C to 100°C
- Acceleration can be set to three different levels to protect fragile samples
- Interchangeable platforms
- Sturdy construction provides stability during high speed shaking
- Intelligent control with digital LCD display



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
VorTemp 56 Incubator/Shaker complete with microtube and microplate platforms	NL-S-2056-A	\$2,913.00	\$2,184.75
VorTemp 1550 Incubator/Shaker complete with 18 x 15mL and 8 x 50mL platforms	NL-S-2050-A	3,423.00	2,567.25
Additional platform/workstation for microtubes	NL-S-2056-R	219.00	-
Individual adapters for 0.5/0.6mL tubes, 6/pkg.	NL-C-1205	51.00	-
Individual adapters for 0.4mL tubes, 6/pkg.	NL-C-1206	51.00	-
Individual adapters for 0.2mL tubes, 6/pkg.	NL-C-1222	51.00	-

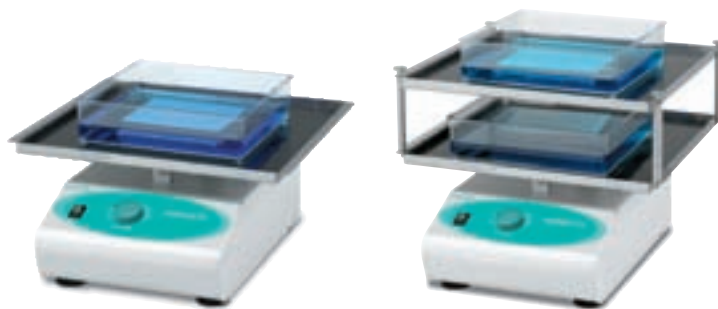
Additional platforms & clamps available.
Please contact Technical Support at 1-888-883-3636 or email technicalsupport@mandel.ca for more information.

ProBlot™ Rocker 25 and 25 XL

Basic design + economical price = great value for your lab

Specifications

Speed settings	5 to 120 tilts/min.
Motion	Rocking
Tilt range	Fixed, ±7°
Clearance between platforms	9cm
Maximum load	11lb/5kg
Ambient operation range	+4°C to 70°C
Dimensions (W x D x H)	
ProBlot 25	29 x 32 x 14.5cm
ProBlot 25XL	32.5 x 36 x 14.5cm



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
ProBlot Rocker 25 with single platform (26 x 20cm)	NL-S-2025-B	\$804.00	\$603.00
ProBlot Rocker 25 D with double platform (26 x 20cm)	NL-S-2025-D-B	922.00	691.50
ProBlot Rocker 25 XL with large single platform (30 x 30cm)	NL-S-2025-B-XL	986.00	739.50
ProBlot Rocker 25 XLD with large double platform (30 x 30cm)	NL-S-2025-XLD-B	1,164.00	873.00
Elastic tie-downs, 4/pkg.	NL-S-2025-T	16.00	-

Digital & Analogue Stirrers and Stirring Hot Plates



MS-HS with steel plate



MS-Pro with steel plate

- Temperature Range: RT-340°C
- Speed Range: 100 – 1500rpm
- Plate Size: 13.5cm
- 2-year warranty

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
ANALOGUE			
MS-S Magnetic Stirrer, steel plate	DMD-811111049999	\$311.00	\$217.70
MS-HS Magnetic Hotplate Stirrer, porcelain plate	DMD-811121029999	411.00	287.70
MS-HS Magnetic Hotplate Stirrer, steel plate	DMD-811121049999	411.00	287.70
DIGITAL			
MS-Pro Magnetic Stirrer, steel plate	DMD-811113029999	566.00	396.20
MS-H-Pro Magnetic Hotplate Stirrer, porcelain plate	DMD-811123029999	616.00	431.20
MS-H-Pro Magnetic Hotplate Stirrer, steel plate	DMD-811123049999	616.00	431.20

Benchtop Open-Air Shakers



With advanced dual-shaking features



SK-300



- Select between orbital and reciprocal action
- Speed range: 10 to 300rpm
- Maximum orbit of 40mm diameter (SK-300, 600) and 70mm diameter (SK-71)
- Wide range of available accessories

DESCRIPTION	PLATFORM SIZE	CAT. NO.	PRICE	SPECIAL
SK-300	350 x 350mm	JTH-AAH31106U	\$1,996.00	1,556.88
SK-600	450 x 450mm	JTH-AAH31206U	2,816.00	2,196.48
SK-71	755 x 481mm	JTH-AAH31306U	4,637.00	3,616.86

Benchtop Incubating & Refrigerating Shakers

- Select between orbital and reciprocal action
- Speed range: 10 to 300rpm
- Maximum orbit of 40mm diameter
- 5°C above room temp. to 60°C (SI-300, 600) and 15°C to 60°C (SI-300R, 600R)
- Wide range of available accessories



SI-300

DESCRIPTION	PLATFORM SIZE	CAT. NO.	PRICE	SPECIAL
SI-300 (53L)	350 x 350mm	JTH-AAH23106U	\$5,332.00	\$4,158.96
SI-300R (53L)	350 x 350mm	JTH-AAH23113U	6,141.00	4,789.98
SI-600 (83L)	450 x 450mm	JTH-AAH23206U	6,049.00	4,718.22
SI-600R (83L)	450 x 450mm	JTH-AAH23213U	7,671.00	5,983.38

Incubated Floor Model Shakers



IS-971

IS-971R



- Maximum capacity of 4 x 6L flasks
- Select between orbital or reciprocating action
- Speed range: 10 to 300rpm
- Rapid heating/cooling performance

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
IS-971 (ambient +5°C to 60°C)	JTH-AAH23336U	\$9,786.00	\$7,633.08
IS-971R (4°C to 60°C)	JTH-AAH23346U	11,685.00	9,114.30

Shaking & Heating Baths

- Noiseless, brushless DC motor provides more accurate rapid shaking
- Ideal for DNA, tissue or cell culture applications
- Ambient +5°C to 100°C
- Microprocessor PID control/built-in calibration

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
BS-06 (17L/0.6 cu. ft.)	JTH-AAH44063U	\$3,586.00	\$2,797.08
BS-11 (25L/0.9 cu. ft.)	JTH-AAH44113U	4,372.00	\$3,410.16



Incu-Shaker Mini™

The most compact shaking incubator, just 11" wide!

- Exceptional temp. uniformity
- Extremely compact, just 11" wide!
- Change and attach flask clamps quickly with unique MAGic Clamp™ platform
- Temp. range ambient +5°C to 60°C
- Shaking speed 30 to 300 rpm
- Platform size: 9.5in x 10.5in (23.5cm x 29cm)



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Incu-Shaker Mini, includes standard flat mat platform, 115V	BEN-H1000-M	\$3,319.00	\$2,157.35
Magic Clamp universal platform (clamps sold separately)	BEN-H1000-MR	278.00	FREE
Clamp for Magic Clamp platform, 500mL (max.5)	BEN-H1000-MR-500	37.00	-
Clamp for Magic Clamp platform, 250mL (max.8)	BEN-H1000-MR-250	35.00	-
Clamp for Magic Clamp platform, 125mL (max.12)	BEN-H1000-MR-125	32.00	-

PURCHASE OF INCU-SHAKER MINI OR INCU-SHAKER 10L

FREE Magic Clamp platform!

PROMO CODE: MS-PLATFORM

Incu-Shaker™ 10L

Heavy duty and designed for heavy workloads and continuous use

- Exceptional temp. uniformity
- High capacity, up to 5 x 2L
- Change and attach flask clamps quickly with unique MAGic Clamp™ platform
- Optional shelf for Petri dishes, plates, trays, etc.
- Temp. range ambient +5°C to 60°C
- Shaking speed 30 to 300 rpm
- Platform size: 17.8in x 17.8in (45cm x 45cm)



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Incu-Shaker 10L, includes standard flat mat platform, 115V	BEN-H1010	\$6,511.00	\$4,232.15
Magic Clamp universal platform (clamps sold separately)	BEN-H1010-MR	393.00	FREE
Clamp for Magic Clamp platform, 2000mL (max.5)	BEN-H1000-MR-2000	80.00	-
Clamp for Magic Clamp platform, 1000mL (max.9)	BEN-H1000-MR-1000	61.00	-
Clamp for Magic Clamp platform, 500mL (max.16)	BEN-H1000-MR-500	37.00	-

Refrigerated & Heating Circulators

Rapid heating and cooling throughout entire temperature range

- Temperature range of -25°C to 150°C
- Over-temperature limiter and low fluid level protection
- Turbulence-reduced, five-speed duplex pump and built-in cooling coil let you use in open or closed bath applications (1 to 3 steps for internal circulation / 4 and 5 steps for external circulation)
- Dry-running protection; automated heating element cut-off with audible and visual warning



DESCRIPTION	VOLUME	CAT. NO.	PRICE	SPECIAL
RW-0525G	5.0L	JTH-AAH57003U	\$3,481.00	\$2,436.70
RW-1025G	10.0L	JTH-AAH57013U	4,432.00	3,102.40

Heating Circulator

External and internal circulating with powerful pumping capacity

- Designed for controlling temperature in external instrumentation or immersion applications
- Pump pressure is adjustable in five stages
- Temperature range of 5°C above room temperature to 150°C
- Exclusive variable-speed pump for accurate, stable, and efficient temperature management (1 to 3 steps for internal circulation / 4 and 5 steps for external circulation)



DESCRIPTION	VOLUME	CAT. NO.	PRICE	SPECIAL
CW-05G	5.0L	JTH-AAH52306U	\$2,065.00	\$1,445.50
CW-10G	10.0L	JTH-AAH52316U	2,238.00	1,566.60
CW-20G	20.0L	JTH-AAH52326U	2,723.00	1,906.10

Laboratory Homogenizers

Hand-held or post-mounted



Bio-Gen PRO200



PRO250



PRO D-Series

Generators sold separately

Bio-Gen PRO200

- High-torque, 144 watt motor with variable speed adjustment
- Maximum noise level of only 68 dB
- Sample volume range 0.03mL – 1L

PRO250

- Extra torque, 576 watt motor with variable speed adjustment
- Maximum noise level of only 72 dB
- Sample volume range 0.03mL – 5L

PRO D-Series

- 2 models, 576 watt or 1305 watt motors
- Maximum noise level of only 68 dB
- Sample volume range 0.03mL – 5L

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Bio-Gen PRO200 Hand-held or post-mounted includes: variable speed motor, tool kit, instruction manual (5,000 – 35,000 rpm)	PRO-01-01200	\$1,116.00	\$725.40
PRO250 Homogenizer, 115V, 10,000 – 30,000 rpm	PRO-01-01250	2,000.00	1,300.00
PRO300DS Digital Homogenizer, 115V, 0 – 28,000 rpm	PRO-01-01300DS	7,157.00	4,652.05
PRO400DS Homogenizer, 115V, 0 – 23,000 rpm	PRO-01-01400DS	9,859.00	6,408.35

Gilson TRACKMAN™



The new personal laboratory assistant



- Can be used with both 96 and 384 microplates without the need for additional accessories
- Works with most microplates and pipettes
- Intuitive software with no training needed
- LED lights help place microplates in correct position
- Small and lightweight

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
TRACKMAN – includes power supply with AC adapter and cable, 3 reagent reservoirs	GF-F70301	\$887.00	\$699.00

Digital Water Baths

- Easy-to-maintain, seamless stainless-steel interior chamber and epoxy powder-coated exterior resist corrosion and chemical damage
- Choice of analogue or digital temperature control
- Chamber capacities up to 43L



Precision 288 Digital Water Bath with optional thermometers

DESCRIPTION	CHAMBER DIMENSIONS (L x W x H)	MAX. TEMP. (°C)	CAT. NO.	PRICE	SPECIAL
DIGITAL LED WATER BATHS, 120V					
Model 280, 1.5L	15.2 x 29.2 x 5.1cm	95.0	TPN-2825	\$956.00	\$719.00
Model 281, 2.5L	15.2 x 12.7 x 16.2cm	99.9	TPN-2829	1,012.00	759.00
Model 282, 5.5L	29.2 x 15.2 x 15.2cm	99.9	TPN-2833	1,166.00	879.00
Model 283, 12L	29.2 x 31.7 x 15.2cm	99.9	TPN-2837	1,361.00	1,019.00
Model 284, 19.5L	35.6 x 30.5 x 20.3cm	99.9	TPN-2841	1,605.00	1,199.00
Model 288 (dual chamber), 12L	29.2 x 31.7 x 15.2cm (each chamber)	99.9	TPN-2853	2,310.00	1,729.00
Model 260 Circulating Water Bath, 19L	30.5 x 38.1 x 19.0cm	99.9	TPN-2864	3,643.00	2,349.00
Model 50 Reciprocal Shaking Water Bath, 26.5L	30.5 x 68.6 x 19.0 cm	99.9	TPN-2872	6,849.00	5,139.00

Analogue temperature display models also available. Please visit our website or contact Technical Support at 1-888-883-3636 for details.

Sonicator® Q700

World's most advanced ultrasonic liquid processor

The Sonicator Q700 has improved internal circuitry guaranteeing more efficient operation, sample-to-sample consistency and most importantly, a reliable end result.

- Fully digital design – touch screen control
- Amplitude control from 0 – 100%
- Increased max. power output by 100 watts
- Total run time up to 72 hours
- 700 watts
- Total energy output display



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Sonicator Q700 with 1/2" probe and converter	HS-Q-700-110	\$7,666.00	\$5,366.20

Sonicator® Q500

- Powerful and cost-effective
- Programmable
- 500 watts
- Amplitude control from 20 - 100%



DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Sonicator Q500 with 1/2" probe and converter	HS-Q500-110	\$6,131.00	\$4,291.70

Sonicator® Q55

- Smallest unit available
- Thumb-switch or continuous operation
- Simple and effective operation

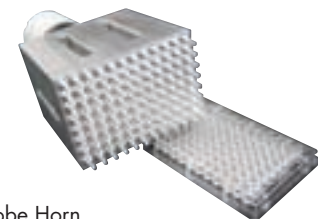


DESCRIPTION	CAT. NO.	PRICE	SPECIAL
Sonicator Q55 with 1/8" probe and converter	HS-Q55-110	\$3,062.00	\$2,143.40

Accessories

DESCRIPTION	CAT. NO.	PRICE	SPECIAL
96 probe horn and stand†	HS-4611	\$6,292.00	\$5,033.60
Cup horn*: Cup ID 7.6cm, horn 5.1cm diameter	HS-431B1	2,149.00	1,719.20
Cup horn*: Cup ID 14cm, horn 6.4cm diameter	HS-431C1	2,533.00	2,026.40
Microplace cup horn, w/fittings & splash shield	HS-431MPXH	3,837.00	3,069.60
Stand for cup horns	HS-448	607.00	485.60

* Requires stand (HS-448) or Sonobox Acoustic enclosure HS-432B
 † For Q700 only



96 Probe Horn
Process an entire microtiter plate at one time!

Replacement Horns/Probes

PROCESSING VOLUME	TIP DIAMETER	TYPE	INTENSITY	AMPLITUDE	LENGTH	CAT. NO.	PRICE	SPECIAL
MICROTIP HORNS FOR Q700/Q500 (MUST BE USED AS AN EXTENSION OF 1/2" PROBE SUPPLIED WITH SONICATOR 4000)								
0.2 – 5mL	1/16" (1.6mm)	Tapered	Ultra high	320µm*	7" (17.8cm)	HS-4417	\$530.00	\$424.00
0.5 – 15mL	1/8" (3.2mm)	Tapered	Ultra high	240µm*	6 1/2" (16.5cm)	HS-4418	446.00	356.80
5 – 50mL	1/4" (6.4mm)	Tapered	High	115µm*	6 1/8" (15.5cm)	HS-4420	446.00	356.80
0.5 – 15mL	1/8" (3.2mm)	Stepped	Very high	205µm*	5 1/2" (14cm)	HS-4422†	384.00	307.20
STANDARD HORNS FOR Q700/Q500* (WITH REPLACEABLE TIP)								
10 – 250mL	1/2" (12.7mm)	Tapped	High	120µm*		HS-200	806.00	644.80
25 – 500mL	3/4" (19.1mm)	Tapped	Medium	60µm*		HS-207	822.00	657.60
MICROTIP PROBES FOR Q55								
0.2 – 5mL	5/64" (2.0mm)	–	Very high	200µm†	5" (127mm)	HS-4423	446.00	356.80
0.5 – 15mL	1/8" (3.2mm)	–	Very high	180µm†	5 5/8" (143mm)	HS-4422	384.00	307.20
10 – 50mL	1/4" (6.4mm)	–	Medium	120µm†	4 3/8" (117mm)	HS-4435	384.00	307.20

* Double (peak-to-peak) amplitude of the radiating face of the tip in micrometers on the Q700 / Q500 operating at output control setting 10
 † Requires coupler HS-4421
 ‡ Two-piece probe



Cup horns
Ideal for processing standard micro-centrifuge tubes