

# Sampler, Water Core — Scoops

## Sampler, Water Core, Sludge Judge®

Accurate readings can be obtained on suspended solids up to a depth of 4.5 m (15'). Comes in three 1.5 m (5') sections with screw-type fittings. Designed for sampling solids in wastewater and food processing applications. Standard Sludge Judge features 3/4" diameter plastic tubing, while the large capacity Sludge Judge features 1-1/4" diameter plastic tubing for greater capacity.



Prod. No.	Description	Unit
2194300	3/4" Standard Sampler	each
2506102	1-1/4" Large Capacity Sampler	each

### Sludge Judge Accessories

Sludge Judge accessories help maintain a long, trouble-free service life. Cleaning brush not recommended for cleaning oil and grease. Use Grease Trap Cleaning Rod in conjunction with Cleaning Strips and a mild detergent to effectively remove oil & grease from plastic tubing.

Prod. No.	Description	Unit
2194301	Carrying Case – fits both models	each
2506101	Cleaning Brush – Standard Sampler	each
2506103	Cleaning Brush – Large Sampler	each
2506104	Grease Trap Cleaning Rod	each
2506105	Cotton Cleaning Strips	50/pk

## Sampler, Ultra

For taking samples of water, sewage, wastes and effluents from lakes, streams, tanks, or ponds, the water sample dipper provides a long reach for otherwise inaccessible spots.

A 1000 mL graduated polypropylene pitcher is mounted on an aluminum tube handle. The handle has 3 parts, a 91cm (36") lower section, a 112cm (44") telescoping section, and an additional 91cm (36") upper section. Connections are made with spring buttons with adjusting steps, 15cm (72") apart. Minimum handle length is 91cm (36"), maximum length is 274cm (108"). Handle diameter is 25mm (1") with 22mm (7/8") telescoping tube.

Prod. No.	Unit
2929501	each



## Scoop, Soil, Plastic

Plastic soil scoops with metered bowls (weights given as NaCl).

Prod. No.	Description	Unit
2657201	1 g (0.85 cc)	each
2657202	2 g (1.70 cc)	each
2657205	5 g (4.25 cc)	each
2657210	10 g (8.5 cc)	each
2657200	Set: includes all of the above	each

## Sampler, Economy

For convenient sampling from tanks, vats, streams, ponds, lakes, etc., these economy dippers are light, easy to use and portable. The polypropylene cups have threaded fittings that screw onto the handle. Two pouring spouts on the 500 mL (16 oz) dipper make it useful for left or right-handed people to pour from either side. Ends are sealed for easy cleaning and include a hook for hanging.



Prod. No.	Description	Unit
2929301	Sampler Dipper 3ft Handle	each
2929302	Sampler Dipper 6ft Handle	each
2929401	Extra screw-on cup 500 mL (3 ft. and 6ft. only)	each
2943000	Sampler Dipper 12ft Handle	each

## Scoop, Spatula

Curved shape minimizes spilling with small volumes of materials. Pointed-end and blunt-end for a variety of uses. Overall Length: 17 cm (6.7").

Prod. No.	Unit
1225700	each



## Scoop, Sampler, Sterile

Individually packaged sterile sampler of one-piece high-impact styrene. Capacity 60 mL (20 oz).

Prod. No.	Unit
2600900	each



# Secchi Disk — Stand, Support

## Secchi Disk



<u>Prod. No.</u>	<u>Description</u>	<u>Unit</u>
2177200	20 cm (7.87"), alternating quadrants	each

## Settleometer Kit

Complete kit for analyzing activated sludge process. Includes a transparent, polycarbonate 1-L jar with cover. Jar has easy-to-read white graduations and is impact-resistant. Custom polypropylene paddle allows agitation of sample without scratching the jar. Also includes 10 polycarbonate centrifuge tubes (15 mL; graduated). All components chemically resistant at pH range 3-10.



<u>Prod. No.</u>	<u>Description</u>	<u>Unit</u>
2115700	Settleometer Kit	each
2764400	Timer	each

## Spoon, Measuring

Molded plastic cup. Weight based on sodium chloride. Used in many Hach test kits and procedures.



<u>Prod. No.</u>	<u>Capacity (g)</u>	<u>Unit</u>
49200	0.05	each
51100	0.1	each
63800	0.2	each
90700	0.5	each
51000	1	each

## Stand, Buret Support

Cast iron, white enamel base provides favorable background for observing end points. Also acts as a steady support for buret. Base is 178 x 330 mm (7 x 13") furnished with a 13 x 610 mm (0.5 x 24") aluminum rod with a threaded nut.

<u>Prod. No.</u>	<u>Unit</u>
32900	each



## Spatula, Micro

Nickel-stainless steel wire with vinyl handle. Length: 140 mm (5.5"). Flat end 51 mm (2") long and 7.9 mm (0.3") wide.

<u>Prod. No.</u>	<u>Unit</u>
1225600	each

## Spatula, Stainless Steel

Corrosion-resistant, non-stick blade. Riveted wooden handle.



<u>Prod. No.</u>	<u>Description</u>	<u>Unit</u>
56162	Blade length, 7.62 cm (3")	each

## Stand, Support

Heavy black enamel, cast iron base and zinc-plated rod. Base is 127 x 203 mm (5 x 8") with an 8 x 508 mm (0.3 x 20") rod.

<u>Prod. No.</u>	<u>Unit</u>
56300	each



# Steam Water Bath — Stir Bars

## Steam Water Bath, Round

Gently heats flasks and bottles while minimizing evaporation. Includes seven concentric rings. Made from brushed stainless steel. Excellent for school laboratories. Diameter: 20cm. Depth: 7cm.

Prod. No.	Unit
2347900	each



## Still, Water, Automatic

The easy-to-use Barnstead/Thermolyne FI-Stream II 2S Glass Still provides low volumes (2.0 liters per hour) of high-quality distilled water. The still removes both inorganic and organic impurities. Patented vapor trap eliminates carry-over of vapor-borne water droplets which may contain impurities. The still's space-saving design allows for wall- or bench-mounting. The still has fully automatic controls, a level sensor, and dual feed capability. CSA approved. Pressure: 10-80 psi. Dimensions: 79 x 26 x 32.5 cm (31.5 x 10.5 x 13"). Shipping weight: 15 kg (33 lbs).

Prod. No.	Description	Unit
2615900	120 Vac, 50/60 Hz	each
2615902	220 Vac, 50/60 Hz	each

## Stir Bar Magnetic Arrester



Use the Magnetic Stirring Bar Arrester to hold your stirring bar in place when pouring from a beaker or flask.

Prod. No.	Description	Unit
2928501	9.4 mm thick x 51 mm dia	each



## Stir Bar Magnetic Retriever

Polyethylene pickup rod with powerful magnet sealed in one end and hang-up grip on other; 31 cm (12") long.

Prod. No.	Description	Unit
1523200	Stir Bar Retriever	each



## Stir Bar, Cuvette

Teflon magnetic centrifugal stirrer fits into standard 10 mm light path spectral cell and provides rapid vertical and horizontal mixing with a minimum of vortexing when placed on a magnetic stirrer. This one-piece molded unit will not scratch cuvettes. May also be used in test tubes.

Prod. No.	Description	Unit
2140800	9 mm dia x 8 mm ht	each



## Stir Bar, Egg Shaped

Designed specifically for round bottom flasks and vessels. The Teflon coated, egg-shaped, magnetic stir bar fits the round bottom for uniform stirring without restriction. Recommended for the following round bottom flask sizes: 10, 25, 50, and 100 mL.

Prod. No.	Description	Unit
2753200	3/4" L x 3/8" dia (19 mm x 9.5 mm)	each



## Stir Bar, Micro

Use micro stir bar for mixing in vials, test tubes, spectrophotometer cells and other small-volume containers. Usable at temperatures up to 260°C. Alnico V magnet encapsulated in Teflon.

Prod. No.	Description	Unit
2054960	2 mm dia x 7 mm L	each
2054959	3 mm dia x 10 mm L	each

# Stir Bars — Stirrer, Lab

## Stir Bar, Octagonal

Teflon coated with molded pivot ring.



Prod. No.	Description	Unit
2095348	12.7 x 7.9 mm (0.5 x 0.3")	each
2095349	15.9 x 7.9 mm (0.63 x 0.3")	each
2095350	22.2 x 7.9 mm (0.87 x 0.3")	each
2095351	25.4 x 7.9 mm (1.0 x 0.3")	each
2095352	28.6 x 7.9 mm (1.12 x 0.3")	each
2095355	50.8 x 7.9 mm (2.0 x 0.3")	each

## Stir Bar, Plus-Shaped

This magnetic stir bar adds speed and efficiency to your mixing requirements. The "+" shape creates a deep vortex and provides stable, quiet operation.



Prod. No.	Size	Unit
2928601	3/8"	each
2928602	3/4"	each
2928603	1"	each
2928604	1-1/4"	each
2928605	1-1/2"	each

## Stir Bar, Polygon

Teflon coated stir bar.



Prod. No.	Description	Unit
4531500	2.22 cm x 0.48 cm	each

## Stirrer, Hand-Held



Hand-held mini-mixer used with test tubes, micro centrifuge tubes and containers too narrow for conventional mixers. Stirring rod flares out for use in larger spaces. Clear vinyl carrying case, 11.4 x 6 cm (4.5 x 2.4") stirring rod, 2 AA batteries included. Dimensions including rod 20.3 x 3.2 x 2.5 cm (8 x 1.25 x 1"). Weight 3 oz.

Prod. No.	Description	Unit
2496400	Stirrer, Mixer	each
2496510	Disposable nylon stirring rods for use with Stirrer (2496400), 10/pack	each

## Stirrer, Lab, Non-Programmable



Standard model for either four- or six-paddle lab stirrer. Features digital readout, stainless steel paddles placed 6 inches apart, regulated variable speeds of all paddles simultaneously, from 1-300 rpm, powder-coated steel uniframe chassis, built-in illuminator, anti-glare curtain, and dust cover. The unit holds either round 1000 mL mixing beakers or square 2 L Wagner Floc Jars. Beakers and Wagner Floc Jars are sold separately.

Prod. No.	Description	Unit
2703800	Six Paddle Lab Stirrer, 120 V 60 Hz	each
2703900	Four Paddle Lab Stirrer, 120 V 60 Hz	each
2692500	Paddle Assembly (for all stirrers)	each
2692800	Shaft Assembly (for all stirrers)	each
4117000	Wagner Floc Jar, 2-liter, square	each
50083	Beaker, 1000 mL, round, pk/6	each

## Stirrer, Lab, Programmable



Provides sequential or continuous operation with precise control of stirring speed and timing. Four memory banks can each be set for paddle speeds from 5 to 300 RPM in one-RPM increments, with run times from 1 second to 59 minutes, 59 seconds in one-second increments. The stirrer can run sequentially through all memory banks, independently in any one memory mode, or manually at a selected speed. To allow work elsewhere in the lab, audio signals can be programmed in each memory bank. Programmed information is retained even with power off, permitting day-to-day test reproducibility. Features rugged, unitized construction, and comes complete with built-in floc illuminator, anti-glare back panel, six 1000 mL round beakers, and dustcover. Unit weight: 29.5 kg (65 lbs). Dimensions: 118.2 x 40.7 x 49.5 cm (46.5 x 16 x 19.5").

Prod. No.	Description	Unit
2631700	Six Paddle Lab Stirrer, 120 V 60 Hz	each
2631702	Six Paddle Lab Stirrer, 220 V 50 Hz	each
2704000	Four Paddle Lab Stirrer, 120V 60 Hz without beakers	each
2692500	Paddle Assembly (for all stirrers)	each
2692800	Shaft Assembly (for all stirrers)	each



# Stirrer, Magnetic — Stoppers

## Stirrer, Magnetic

Cimarec Ceramic top stirrer features a reflective, white ceramic that is seamless easy to clean, and resistant to alkali/acid solutions. Low-profile increases efficiency and reduces spill risk. StirTrac™ technology offers improved slow speed stirring, consistent speed control, adjustable speed range from 50-1200 RPM, and rapid braking. Detachable cord. Integral ringstand/support rod holder (order rod separately).



Prod. No.	Ceramic Top Dimensions	Electrical Specifications (Volts - Hz)	Unit
2881200	10.8 x 10.8 cm (4.25 x 4.25")	120 - 50/60	each
2881300	17.8 x 17.8 cm (7.0 x 7.0")	120 - 50/60	each
2705900	0.5" (1.3 cm) diameter support rod		each

## Stirrer, Magnetic, Battery-Powered

Portable, light-weight stirring ideal for field use where no electricity is available. It can be used for up to 24 hours of continuous operation, mixing up to 1 liter with a maximum stirring speed of 900 rpm using one "D" sized battery. Continuous operation time greatly extended if two "D" sized batteries are used. Dimensions: 9.25" x 5" x 3.5"H.



Prod. No.	Unit
2163600	each

## Stopcock Grease

For lubricating ground glass joints, glass stopcocks and valves, and for sealing desiccators. Lubricant has a low vapor pressure and resists attack by acidic and alkaline solutions.

Prod. No.	Description	Unit
56275	Tube of 150 grams	each



## Stopcock Plug, Teflon

Teflon stopcock for your buret, separatory funnel, or other labware.



Prod. No.	Description	Size
2095661	Teflon	2 mm approx. plug bore

## Stopper/Tubing Sizer

The handy Stopper / Tubing Sizer easily determines the correct size of the cork or stopper needed for any flask, bottle, etc. Two scales are provided: one for rubber and vinyl stoppers and the other for corks. The backside is a circular scale to size tubing outside diameters between 4 and 52mm. 156mm x 66mm wide (6 1/8" x 2 5/8") at the top.



Prod. No.	Description	Unit
2938700	Stopper/Tubing Sizer	each

## Stopper, Neoprene, One Hole

Made of synthetic rubber that resists petroleum products, fats, oils, and organic chemicals. Recommended where natural rubber would deteriorate or be attacked.



Prod. No.	Size No.	Hole Diameter	Unit
1480407	7	12 mm	6/pk
1480477	8	8 mm	1

## Stopper, Neoprene, Solid

Recommended where natural rubber would deteriorate or be attacked.

Prod. No.	Size No.	Unit
1480801	1	12/pk
1480802	2	12/pk
1480803	3	12/pk
1480806	6	6/pk
1480807	7	6/pk
1480808	8	6/pk



# Stoppers — Syringe Filtration Unit

## Stopper, Polyethylene, Hollow

Made of low-density polyethylene. Interchangeable with rubber stoppers. Safer and more economical than glass. Fits snugly. Excellent as sample cup for pH meters, flame photometers and automatic analyzers, or as a small beaker. 25-26 mm (1") high.



Prod. No.	Top (mm)	Bottom (mm)	Size	Unit
1448000	17	11	1	6/pk
1448001	20	14	2	6/pk
1448002	23	17	3	6/pk

## Stopper, Polyethylene

Made with closed bottom. Linear, high-density polyethylene to conform to TS stopper dimensions. Rings on base provide efficient seal. Improved design protects vessel neck in the event of accidental tipping. May be used in place of the conventional solid penny-head stoppers.



Prod. No.	Size No.	Unit
2095509	9	6/pk
2095513	13	6/pk
2095516	16	6/pk

## Stopper, Rubber, One Hole

Pliable and non-corrosive.



Prod. No.	Size No.	Hole Diameter	Unit
211902	2	5 mm	6/pk
211904	4	5 mm	6/pk
211906	6	5 mm	6/pk
211907	7	5 mm	6/pk
211908	8	5 mm	6/pk

## Stopper, Rubber, Solid

Black. Soft and resilient.



Prod. No.	Size No.	Unit
211801	1	12/pk
211802	2	12/pk
211803	3	12/pk
211804	4	12/pk
211806	6	12/pk
211808	8	12/pk
211810	10	6/pk
211811	11	6/pk

## Stopper, Rubber, Two Hole

Pliable, non-corrosive black rubber.



Prod. No.	Size No.	Hole Diameter	Unit
2677406	6	5/5 mm	6/pk
50450	9	14/5 mm	1
50449	11	14/5 mm	1

## Stopwatch, Water Resistant

Counts up to 24 hours with resolution of 1/100 second for first 30 minutes, 1 second thereafter. Features lap function, alarm clock, and calendar. Button cell battery included. Dimensions: 5.4 x 6 cm. (2.4 oz). NIST-certified.

Prod. No.	Unit
2630200	each



## Swabs, Cotton, Sterilized



Swabs (cotton tip, hardwood stick) used to transfer colonies from positive membrane filtration plates to confirmation broth. 6".

Prod. No.	Unit
2554300	100/pk

## Syringe Filtration Unit



For filter sterilization of small quantities of dilution water.

Prod. No.	Unit
2323900	each

# Syringe, Luer-Lock Tip — Thermometers

## Syringe, Luer-Lock Tip



Prod. No.	Description	Unit
1226300	1 cc	each
2228725	2 cc	25/pk
4321300	3 cc	each
2343333	5 cc	100/pk
2202400	10 cc	each
2225800	30 cc	each
2258700	60 cc	each
2586100	140 cc (not Luer-lock)	each

## Hach Syringe Filters, Non-Sterile

Prod. No.	Description	Diameter	Pore Size	Unit
2513605	Nylon Syringe Filter	33 mm	0.2µm	50/pk
2513601	PVDF Syringe Filter	33 mm	0.22µm	50/pk
2513603	PVDF Syringe Filter	33 mm	0.45µm	50/pk

## Hach Syringe Filters, Sterile

Prod. No.	Description	Diameter	Pore Size	Unit
2513700	PES Sterile Syringe Filter	33 mm	0.22µm	50/pk

## Thermometers, Dial

### Thermometer, COD

Bi-metallic. Dial gauge 0 to 200°C ±1%.  
Two degree divisions. Probe diameter is .15 inches.

Prod. No.	Unit
4565500	each



**Order online at:**  
**www.hach.com**

- Quick and easy access to your account at any time.
- View complete order status and history.
- Maintain your "favorites" list, request quotes, and much more!



## Thermometers, Digital

### Thermometer, Digital, Acorn® RTD

Rugged and dependable, this RTD style thermometer offers a wide measuring range and a large LCD screen for a clear reading at a glance. Compact size, hold functionality and splash-proof keypad offer peace of mind and ease of use. Features °C or °F, min & max temperature display and offset temperature calibration. Protective rubber armor features built-in stand for easy benchtop use.

Order the certified meter with probe to receive NIST-traceable calibration. Your specific meter and probe will be tested and calibrated to NIST-traceable standards by an accredited laboratory prior to shipment. Calibration report includes detailed results of your system identified by product serial number.

#### Specifications:

Meter Range: -320 to 1562°F (-200 to 850°C)

Probe Range: -58 to 932°F (-50 to 500°C)

Resolution: 0.1°F (0.1°C)

Accuracy: ±0.4°F (±0.2°C)

Prod. No.	Description	Unit
2630610	Acorn RTD Temp 6 Meter w/General Probe	each
2630620	Certified RTD Temp 6 Meter w/Probe System	each
2630614	Replacement General Purpose Probe	each



Laboratory Supplies

### Thermometer, Digital, Acorn® Thermistor

Thermistor style thermometers have excellent accuracy over biological or ambient temperature ranges compared to other thermometer styles. The Acorn Thermistor is perfect for routine temperature measurement, as well as crucial biological measurements. Compact size, hold functionality and splash-proof keypad offer peace of mind and ease of use. Features °C or °F, min & max temperature display and offset temperature calibration. Protective rubber armor features built-in stand for easy benchtop use.

Order the certified meter with probe to receive NIST-traceable calibration. Your specific meter and probe will be tested and calibrated to NIST-traceable standards by an accredited laboratory prior to shipment. Calibration report includes detailed results of your system identified by product serial number.

#### Specifications:

Meter Range: -40 to 257°F (-40 to 125°C)

Probe Range: -40 to 302°F (-40.00 to 150.0°C)

Resolution: 0.1°F (0.1°C)

Accuracy: ±0.4°F (±0.2°C)

Prod. No.	Description	Unit
2630630	Acorn Temp 5 Meter w/ General Probe	each
2630640	Certified Temp 5 Meter w/ Probe System	each
2630632	Replacement Probe	each



Thermometers, Digital continued on next page.

## Thermometers, Digital (continued)

**NEW!**

### Thermometer, Digital, Acorn® Thermocouple

Thermocouple style thermometers offer the greatest measuring range compared to other style thermometers. Compact size, hold functionality and splash-proof keypad offer peace of mind and ease of use. Features °C or °F, min & max temperature display and offset temperature calibration. Protective rubber armor features built-in stand for easy benchtop use.

Order the certified meter with probe to receive NIST-traceable calibration. Your specific meter and probe will be tested and calibrated to NIST-traceable standards by an accredited laboratory prior to shipment. Calibration report includes detailed results of your system identified by product serial number.

Specifications:

*Meter Range:* -418 to 2501°F (-250 to 1372°C)

*Probe Range:* -418 to 1650°F (-250 to 899°C)

*Resolution:* 0.1°F/°C from -146°F to 572°F (-99.9°C to 299.9°C),

1°F/°C outside this range

*Accuracy* ±0.25% of reading plus 0.9°F (0.5°C) above -99.9°F/°C

Prod. No.	Description	Unit
2630650	Acorn Thermocouple Meter w/General Probe	each
2630660	Certified Thermocouple Meter w/Probe System	each
2630654	Replacement K-type Probe	each



### Thermometer, Digital, Sper® Thermocouple

Light weight and inexpensive, this K & J type thermometer provides extremely accurate and reliable temperature measurement. Features relative minimum and maximum temperature, hold, auto power off, and touch tone buttons. This instrument comes with NIST certification for one year and includes one K-type probe. The certification will state an expiration date for NIST certification.

Specifications:

*Meter Range:* -328 to 2498°F (-200 to 1370°C)

*Probe Range:* -328 to 2498°F (-200 to 1370°C)

*Resolution:* 0.1°F (0.1°C)

*Accuracy:* ±0.05% of reading + 0.7°C, 1.4°F



Prod. No.	Description	Unit
2630600	Thermometer, Digital	each
2630601	Stainless Steel Replacement K-type Probe	each

## Thermometers, Mercury-Filled

### Thermometer, Celsius, Mercury\*



Mercury-filled, laboratory grade, single scale (Celsius) with yellow back. Can be totally immersed.

\*Cannot be shipped to CA, CT ME, MI, MN, RI, VT.

Prod. No.	Range	Divisions (°C)	Length
56601	-20 to 110°C	1	305 mm (12")
56602	-10 to 200°C	1	356 mm (14")

### Thermometer, Celsius, Mercury\*



Mercury-filled. Range: -1 to +51°C. Divisions: 0.1°C. Length: 460 mm (18").

Supplied with certificate with correction to the nearest 0.1°C. Certified at 0, 10, 20, 30, 37, 40, and 50°C. Resolution: 0.1°C.

\*Cannot be shipped to CA, CT ME, MI, MN, NJ, RI, VT.

Prod. No.	Unit
2551500	each



### Thermometer, Double Scale, Mercury\*



Laboratory grade, mercury-filled, yellow back, total immersion thermometer with both Celsius and Fahrenheit scale markings.

\*Cannot be shipped to CA, CT ME, MI, MN, NJ, RI, VT.

Prod. No.	Range	Divisions (°C °F)	Length
2095911	-20 to 110°C (0 to 230°F)	1 2	305 mm (12")
2095926	-10 to 260°C (20 to 500°F)	1 2	406 mm (16")

### Thermometer, Fahrenheit, Mercury\*



Mercury-filled, laboratory grade, single scale (Fahrenheit) with yellow back. Can be immersed.

\*Cannot be shipped to CA, CT ME, MI, MN, NJ, RI, VT.

Prod. No.	Range	Length	Unit
56701	-30 to 120°F	305 mm (12")	each
56702	0 to 300°F	305 mm (12")	each



## Thermometers, Non-Mercury

### Thermometer, Non-Mercury



Enviro-Safe non-Mercury thermometers feature an exclusive biodegradable liquid and dye. Easy to read, aesthetically distinctive due to dark green liquid and permanently fused markings. Each thermometer, individually calibrated against NIST traceable equipment, identified by unique serial number for ISO 9000 or other quality systems.

Prod. No.	Range	Resolution	Length
2635700	-10 to 225°C	1°C	405 mm (16")
2635701	-10 to 260°C	1°C	405 mm (16")
2635702	-20 to 110°C	1°C	305 mm (12")
2635703	0 to 230°F	2°F	305 mm (12")

### Thermometer, Non-Mercury, Compact



Compact and durable, non-mercury thermometers enclosed in a protective nylon case. These thermometers are designed for ruggedness and come in many standard ranges. Suitable for all field and portable uses where an unprotected thermometer may break.

Prod. No.	Temp. Scale and Range	Resolution
2676100	-30 to 120°F	2°F
2676200	0 to 220°F	2°F
2676300	-5 to 45°C	0.5°C
2676400	Dual Range: -10 to 110°C, 0 to 220°F	1°C 1°F

### Timer, Counts Up or Down

Counts up or down for 99 minutes, one-second intervals. Fast programming with numeric keypad. Includes built-in stand, pocket clip, magnet, button cell battery. Dimensions: 6.35 x 6.67 x 1.90 cm (2.50 x 2.625 x 0.75"). Weight: 0.64 (1.4 oz). NIST-certified.

Prod. No.	Unit
2630300	each



### Timer, Five-Channel

Four independent channels count up or down for any interval from one second to 100 hours; fifth channel is clock. Large display, one-minute alarm, memory, clock mode. Includes stand, pocket clip, magnet. Dimensions: 7.10 x 6.35 x 1.43 cm (2.875 x 2.50 x 0.56"). Weight: 0.08 kg (2.9 oz). Traceable to NIST.

Prod. No.	Unit
2630400	each



### Timer, Talking

Features a clear human voice. Large 3/4" display with icons to indicate the various modes: voice off/on, count-down/count-up, etc. Also features a built-in stand for benchtop use, pocket clip, and magnetic back. Button cell batteries included. Dimensions: 3.25" x 2.5" x 1" Weight: 2.2 oz.

Prod. No.	Unit
2764400	each



### Timer, Three-Channel

Audible and visual alarm, manual and automatic off. All three channels visible at same time. Outstanding quartz-crystal accuracy of 0.006 sec. Dimensions: 76 x 76 x 36 mm (3 x 3 x 1.4"). One second to 10 hours. Weight: 113 g (4 oz).

Prod. No.	Unit
2348000	each



### Tongs, Beaker

Plated steel, with Plastisol jaws. Length: 23 cm (9"). For use with 50 to 2000 mL beakers.

Prod. No.	Unit
56800	each



### Tongs, Crucible

Nickel-plated steel. Length: 230 mm (9"). Wire size: 5 mm.

Prod. No.	Unit
56900	each



# Total Dissolved Solids Testr — Tubing

## Total Dissolved Solids Eco Testr™ 2

**NEW!**

Economical and easy to use, this Testr features an adjustable TDS factor from 0.4 to 1.0, which allow TDS measurement in a wide range of applications. Display orientation means no need to turn your head or tilt the tester. Push-button calibration, hold-function and high accuracy make this testr ideal for a wide range of applications. Other features include:

- Automatic Temperature Compensation
- Auto-off function
- Waterproof, dustproof housings that float



Testr	Resolution	Accuracy	Operating Temp
Eco TDS Low	10 ppm	±1% full scale	0 to 50 °C
Eco TDS High	0.1 ppt	±1% full scale (±2% above 5 ppt)	0 to 50 °C

Prod. No.	Description	Unit
2520240	Eco TDS Low, 0 – 1990 ppm	each
2520250	Eco TDS High, 0 – 10.00 ppt	each
1440042	TDS Standard-Low Range	100 mL
2307442	TDS Standard-High Range	100 mL
2520100	Belt-loop Carrying Pouch	each

## Toxicity Screening Test, PolyTox®

**NEW!**

30 Minute rapid test for measuring toxicity of pH, temperature, specific chemicals, individual influent streams or wastewater to biological systems. A blend of specialized microbial cultures in an easy-to-use kit provides a simple and economical test.

- EPA recommended
- Cost effective, easy-to-use
- Free of nitrifying microorganisms



Dissolved oxygen meter, BOD probe and standard BOD bottles are required for testing and sold separately. Visit us online at [www.hach.com](http://www.hach.com) for your copy of the application procedure and common laboratory equipment needed.

Prod. No.	Description	Unit
2918800	PolyTox Rapid Toxicity Screen Test	20/pk

## Tube, Culture, with Screw Cap

Cap has a firmly bonded rubber liner, providing a sure and highly inert sealing surface.



Prod. No.	O.D. x L	Capacity to Neck	Unit
2096208	13 x 100 mm	8 mL	10/pk
1436120	16 x 150	20	10/pk
2096230	20 x 150	30	10/pk
2096250	25 x 150	50	10/pk
2275800*	16 x 100 mm	11 mL	1/pk
2275806*	16 x 100 mm	11 mL	6/pk
2899300*	16 x 100 mm	11 mL	250/pk

\*Does not come with caps—see below for caps.

## Tube Caps

White cap w/Teflon lining. Resistant to heat and autoclaving.

Prod. No.	Fits Tube No.	Thread Size	Unit
2241106	2275806	15-415	6/pk

## Tube, Test

Well annealed and chemically stable. Rims are fire-polished. Easy-to-use marking spot.



Prod. No.	Overflow Capacity	O.D. x L	Unit
56510	10 mL	13 x 100 mm	10/pk
56528	28	18 x 150	10/pk

## Tube, Viewing, Glass

Glass viewing tubes. 5 mL mark.



Prod. No.	Description	Unit
173006	Tubes	6/pk
173106	Stoppers	6/pk

## Tube, Viewing, Plastic

Plastic color viewing tubes. Used in many Hach kits.



Pushpin and pen shown for scale.



Prod. No.	Description	Unit
4660004	Tubes	4/pk
4660014	Caps	4/pk

## Tubing, C-Flex

White, thermoplastic elastomer with excellent chemical resistance and temperature range from -80 to 230°C. Can be sterilized by gamma radiation or autoclave. Supplied in 25-foot sections.



Prod. No.	I.D.	Wall Thickness
2327337	6.4 mm (1/4")	1.6 mm (1/16")

## Tubing, Latex Rubber

Seamless wall. Tack-free outer surface. Packed in 3.6 m (12') lengths.



Prod. No.	Wall Thickness (in.)	I.D. (in.)
55919	1.6 mm (1/16)	7.9 mm (5/16)
56018	2.4 mm (3/32)	6.4 mm (1/4)
56019	2.4 mm (3/32)	7.9 mm (5/16)

# Tubing — Water Purification

## Tubing, Vacuum, Nalgene®

Similar to Nalgene 8000 regular tubing, but with heavier walls. Imprinted in red for instant identification. Saves time and avoids errors which could invalidate experiments or injure laboratory personnel.



Prod. No.	Length	I.D. mm (in.)	O.D. mm (in.)	Wall mm (in.)
2074145	50'	6.4 (1/4)	15.9 (5/8)	4.8 (3/16)
2074146	50'	9.5 (3/8)	22.2 (7/8)	6.4 (1/4)

## Tubing, Tygon R-3603®

Chemical-resistant, Formula R-3603 Tygon tubing with flex strength greater than rubber. Unaffected by oxidizing agents and compatible with virtually any laboratory chemical. Bends readily to sharp radius curves and will maintain strong grip on glass or metal. Highly polished bore prevents interior build-up while facilitating cleaning.



Prod. No.	Length	I.D. mm (in.)	O.D. mm (in.)	Wall mm (in.)
2074038	50'	3.2 (1/8)	4.8 (3/16)	0.8 (1/32)
2074042	50'	3.2 (1/8)	6.4 (1/4)	1.6 (1/16)
2074043	50'	4.8 (3/16)	7.9 (5/16)	1.6 (1/16)
2074037	50'	6.4 (1/4)	9.5 (3/8)	1.6 (1/16)
2074041	50'	7.9 (5/16)	11.1 (7/16)	1.6 (1/16)
2074039	50'	9.5 (3/8)	12.7 (1/2)	1.6 (1/16)
2074040	50'	12.7 (1/2)	15.9 (5/8)	1.6 (1/16)

## Tweezers

Plastic. Sure grip feature.



Prod. No.	Unit
1428200	each

## Vial, Specimen

Borosilicate glass. Autoclavable. Cap included.



Prod. No.	Capacity	O.D. x H	Unit
1497038	8	17 x 63	10/pk
1497046	16	21 x 73	10/pk
1497054	24	23 x 88	10/pk

## Watch Glass

Heavy wall and uniform fire-polished borosilicate glass edge.



Prod. No.	Diameter	Unit
57867	65 mm (2.6")	each
57870	100 mm (4")	each
57897	65 mm (2.6")	12/pk

## Water Purification, Demineralizers

### Demineralizer Bottle

Narrow mouth, polyethylene bottle. Contains monobed resin. Flip spout. Great way to deionize small volumes of water. Used with Hach Portable Laboratories.



Prod. No.	Description	Unit
1429900	177 mL (6 oz) capacity	each
2184600	473 mL (16 oz)	each
31101H	Demineralizer Resin, 380g	each
591200	Cap only for 177 mL bottle, Sprinkler w/screen	each
2187201	Cap only for 473 mL bottle, Sprinkler w/screen	each

### Barnstead® Cartridge Filtration System



Cartridge Filtration System is an economical and easy-to-use system to create Type III and IV general purpose lab water. Operates on city water pressure and no electricity required. Choose from three different cartridges:

**Ultra Pure:** No dye in resin. Largely free of silica and carbon dioxide.

**Organic Removal:** Activated carbon removes organic and chlorines from feed water. Place ahead of Ultra Pure or High Capacity cartridge. Replace after second demineralizer cartridge replacement.

**High Capacity:** Lower purity than Ultra Pure.

Prod. No.	Type	Finished Water Specifications		
		Resistance	Capacity	pH
2079100	Ultra Pure	1 meg ohm/cm endpoint	13,000 mg ionized solids	6.8-7.2
2074200	Organic Removal		5500 L	NA
2079200	High Capacity	175,000 ohm/cm	29,500 mg ionized solids	
2079400	Wall Bracket-slotted plastic bracket (required) makes for simple wall mounting and provides easy inspection of cartridge. Height of cartridge in bracket is 18"			

### Siemens IWT® Cartridge Filtration System

Convenient, economical, high quality modular water filtration system that operates on city water pressure and can easily be expanded to fit most needs. No electricity required. Up to 18 Megohm water quality can be achieved with this system.

Features:

- No instruments needed
- Substantial cost savings compared to distilled water
- Convenient color change indicates end of life

Choose from two cartridges:

**Adsorber:** For pretreatment of water containing organics, free chlorine, phosphate complexes and turbidity

**Universal:** Produces water quality comparable to a level obtained by single distillation. Removes all constituents except free carbon and silica.

Prod. No.	Description	Unit
2967000	Adsorber Cartridge	each
2967100	Universal Cartridge	each
2967200	Single Cartridge Wall Bracket	each
2967300	Duplex Cartridge Wall Bracket	each



# Water Purification Systems

## Water System, Ultrapure, Millipore® Direct-Q® 3



Designed for laboratories that do not have access to pretreated water and need between 1 and 10L of ultrapure water per day, the Direct-Q system delivers ultrapure (type I) and pure (type III) water on demand directly from tap water.

Direct-Q offers superior ultrapure water for BOD applications and effectively eliminates source water as a cause of high blanks in BOD analysis. Other applications include TOC analysis, general laboratory use, and creation of Standard Solutions for Turbidity and Metals testing. DQ3 Smart Pack also required and sold separately. Dimensions: 16.5" x 11.4" x 21.3" (LxWxH). 90-255V, 50-60 Hz.

### Features

- Easy installation, intuitive operation
- Maintenance offers simple cartridge change once or twice a year
- Warning alarm in case of sudden drop in water quality
- Easily accommodates different sizes of common lab glassware



### Specifications

#### Ultrapure (Type 1) Water Quality – Regular Operating Conditions

Resistivity, MΩcm at 25°C	18.2
TOC (Direct-Q 3 system)	<10 ppb
TOC (Direct-Q 3 UV system with 185//254 nm UV lamp)	<5 ppb
Particulates (size > 0.22 µm)*	<1 Particulate/mL
Flow Rate (w/ Millipak® Express 20 filter or BioPak™ cartridge)	>0.5 L/ min

#### Pure (Type III) Water Quality - Regular Operating Conditions

Ionic Rejection	> 94%
Organic Rejection for MW > 200	> 99%
Bacteria and Particulates	> 99%
Flow Rate	2.4 L/h at 15 °C (typical)

\*When used with Millipak® Express 20 filter or BioPak™ cartridge.

Prod. No.	Description	Unit
2512100	Direct-Q 3 System (DQ3 Smart Pack Required)	each
2512200	Direct-Q 3 System with UV Lamp <sup>1</sup> (DQ3 Smart Pack Required)	each

### Consumables and Accessories

2512201	DQ3 Smart Pack	each
2512800	BioPak Ultrafiltration Cartridge	each
2512204	Wall Bracket	each
2512900	30L Reservoir	each
2512202	Millipak-20 Filter Unit	each
2512700	UV Lamp 185nm <sup>1</sup>	each

<sup>1</sup>Cannot be shipped to CT, LA, ME, RI, VT.

UV Lamp contains mercury. Dispose according to state, local or federal regulations.

## Water System, Ultrapure, Millipore® Simplicity®



The Simplicity system delivers ultrapure (type 1) water from pretreated water (distilled, deionized or reverse osmosis) to laboratories requiring < 5 liters of ultrapure water per day. Simplicity is lightweight and optimal for your portable ultrapure water needs.

Applications include preparation of blanks and standard solutions for a variety of analytical procedures. Choose with or without built-in UV lamp. Purification pack required and sold separately. Dimensions: 14.2" x 11.4" x 20.1" (LxWxH). Operating weight: 18 to 20 lbs. 100 -230V, 50/60Hz.

### Features

- Easy installation, intuitive operation
- Maintenance offers simple cartridge change once or twice a year
- Automatic notification to change your purification cartridge
- Lightweight and portable

### Specifications

#### Ultrapure (Type 1) Water Quality – Regular Operating Conditions

Resistivity, MΩcm at 25°C	18.2
TOC (Simplicity system)	<15 ppb
TOC (Simplicity system with 185//254 nm UV lamp)	<5 ppb
Flow Rate	>0.5 L/ min

Prod. No.	Description	Unit
2512300	Simplicity System (Purification Pack Required)	each
2512400	Simplicity System with UV Lamp <sup>1</sup> (Purification Pack Required)	each

### Consumables and Accessories

2512402	Purification Pack	each
2512403	Simplicity final filter, 0.05µm	each
2512204	Wall Bracket	each
2512900	30L Reservoir	each
2512700	UV Lamp 185nm <sup>1</sup>	each
2512800	BioPak Ultrafiltration Cartridge	each

<sup>1</sup>Cannot be shipped to CT, LA, ME, RI, VT.



# Water Purification Systems — Wipes

## Water System, Ultrapure, Millipore® Synergy®



The Synergy system delivers ultrapure (type 1) water from pretreated water (distilled, deionized or reverse osmosis) to laboratories requiring < 20 liters of ultrapure water per day. The compact design assures easy installation anywhere in your lab, on the bench or wall-mounted. The Synergy system delivers a fixed volume of Type I water and automatically shuts off once the selected volume has been delivered. Available with or without built-in UV lamp.

Applications include HPLC isocratic and gradient solution preparation, Sample dilution, Preparation of chemical solutions used with titrators, spectrophotometers and general laboratory use. Purification Pack and Pressure Regulator are required and sold separately. Dimensions: 15" x 11.4" x 21.3" (LxWxH). 100 -230V, 50/60Hz.

### Features

- Easy installation, intuitive operation
- Maintenance offers simple cartridge change once or twice a year
- Automatic notification to change your purification cartridge
- Time saving, fixed-volume dispense



### Specifications

#### Ultrapure (Type 1) Water Quality – Regular Operating Conditions

Resistivity, MΩcm at 25°C	18.2
TOC (Synergy system)	<10 ppb
TOC (Synergy system with 185//254 nm UV lamp)	<5 ppb
Flow Rate	up to 1.2 L/ min

Prod. No.	Description	Unit
2512500	Synergy System (Purification Pack Required)	each
2512600	Synergy System with UV Lamp <sup>1</sup> (Purification Pack Required)	each

### Consumables and Accessories

2512602	Purification Pack	each
2512604	Pressure Regulator	each
2512202	Millipak-20 Filter Unit	each
2512204	Wall Bracket	each
2512900	30L Reservoir	each
2512700	UV Lamp 185nm <sup>1</sup>	each
2512800	BioPak Ultrafiltration Cartridge	each

<sup>1</sup>Cannot be shipped to CT, LA, ME, RI, VT.

UV Lamp contains mercury. Dispose according to state, local or federal regulations.

## Weighing Boat



Flexible plastic receptacles for handling liquids or solids during weighing. These flexible polystyrene boats bend easily into a pouring spout to ensure non-spill transfer after weighing sample. Stiff lip provides sure-grip surface for handling; won't react to most weighing sample materials.

Prod. No.	Dimensions: approx. I.D top/base	Unit
2179000	67/46 mm	500/pk
2179100	110/85 mm	500/pk

## Weighing Paper



Smooth surface for efficient sample recovery.

Prod. No.	Dimensions	Unit
1473885	102 x 102 mm (4 x 4")	500 sheets/pk

## Weight Set, Class M-2

Standard weight set. 16-piece, with stainless steel forceps. Eight fractional weights: 10, 20, 50, 100, 200, 200, 200, and 500 mg. (Two fractional weights, 200 mg and 500 mg, are stainless steel, the rest are aluminum) Eight brass gram weights: 1, 2, 2, 5, 10, 10, 20, and 50 grams. Polypropylene case.



Prod. No.	Unit
2101100	each

## Wipes, Disposable

For wiping critical surfaces. Ideal for use with spectrophotometer cells and other optically sensitive glasses.



Prod. No.	Size No.	Unit
2096900	38 x 43 cm	70/pk
2097000	11 x 22 cm	280/pk
2097060	11 x 22 cm	60 packages (280/pk)
2932800	28 x 37 cm	188/pk

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