Furnace, Muffle

Digital temperature control. Insulation made of high-purity alumina-silica with a low thermal mass. Means faster heat-up time and reduced electrical consumption. Embedded heating elements for structural strength and longer life. Perforated bench case design keeps bench top cool. Accurate percentage input control. Chamber dimensions (W x H x D), 10 x 10 x 11 cm (3.9 x 3.9 x 4.3"). Outer dimensions, 20 x 32 x 22 cm (7.9 x 12.6 x 8.7"). 1050 W. Maximum operating temperature: 1093°C.

Muffle Furnace is recommended for use in ***Standard Methods 2540 B, C, D and E*** to determine Total Suspended Solids.

Prod. No.	Description	Unit
1429600	120 Vac, 50/60 Hz	each
1429624	240 Vac, 50/60 Hz	each
1429610	Heating Element for 120 Vac	each
1429625	Heating Element for 240 Vac	each

Germicidal Cloth

Non-woven, disposable cloth designed for quick decontamination of laboratory surfaces. Assures proper dilution strength, product effectiveness, and standardized technique. Greater quaternary dispersal with no hazard of cross-contamination. Quick drying.

Prod. No.	Description	Unit
2463200	Germicidal Cloth	50/pk

Glass Beads

Prevent bumping while boiling liquids.

Prod. No.	Unit
259600	100/pk

Glass Wool

Pliable and easy to use. Contains no heavy metals. Low alkali content. Suitable for filtering. Comes in sheets 3 mm (0.1") thick x 250 mm (9.8") wide x 1300 mm (51.2") long.

Prod. No.	Unit
58901	0.45 kg (1 lb)/pk

Glasses, Safety, Uvex®

Ideal for normal to slender profiles, the side cut design provides both comfort and protection. Molded nose bridge, side shields, and brow guard. Three-position ratchet adjusts lens angle relative to face, and adjustable temples extend to comfortably fit over ear. Impact-resistant polycarbonate lens blocks 99.9% of harmful UVA and UVB radiation. Meets ANSI Z87.1-1989 and CSA Z94.3-1992 standards. Available with choice of Ultradura® hardcoat (UD) or Uvextreme® AF (XTR) antifog, antiscratch, and antistatic lens coatings.

Prod. No.	Description	Unit
2927801	Uvex Skyline with Clear Ultradura Lens	each
2927802	Uvex Skyline with Clear Uvextreme Lens	each

Glasses, Safety, Full Wrap, Uvex®

Polycarbonate lens blocks >99.9% of harmful UVA and UVB radiation and meets stringent military V0 ballistic impact requirements (seven times the impact velocity of ANSI and CSA). Available with choice of Ultradura® Hardcoat lens coating or Uvextreme® lens coating, which provides additional antifog, antiscratch, and antistatic protection. Choice of lens tints include Clear, Espresso and Gold Mirror. Meets ANSI Z87.1-1989 and CSA Z94.3-1992 Standards.

Prod. No.	Description	Unit
2927701	Uvex Genesis with Clear Ultradura Lens	each
2927702	Uvex Genesis with Clear Uvextreme Lens	each
2927704	Uvex Genesis with Espresso Uvextreme Lens	each
2927705	Uvex Genesis with Gold Mirror Ultradura Lens	each

Glasses, Safety, Standard

Clear molded side shields provide full peripheral vision and protection.

Prod. No.	Description	Unit
1842100	clear	each

Glasses, Safety, UV Protective

Protect eyes from extended or high-intensity ultraviolet energy while eliminating "blue haze" interference. Lightweight and comfortable, even over prescription glasses.

Prod. No.	Unit
2113400	each

Gloves — Goggles, Safety

Gloves, Autoclave

Heat-resistant up to 232°C (450°F). Use for handling hot objects from autoclave or oven. Gauntlets protect wrists and forearm. Washable.

Prod. No.	Unit
2178800	one pair

Gloves, Chemical-Resistant

High-performance, nitrile protective gloves are resistant to degradation from most chemicals. Designed for comfort with soft, cotton-flock lining to absorb perspiration. Embossed finish makes wet handling easier and safer.

Prod. No.	Size	Unit
2410103	8-8 1/2	each
2410104	9-9 1/2	each
2410105	10	each
2410106	11	each

Gloves, Disposable, Powder Free, Latex

Standard latex examination gloves for a wide variety of applications. Sold in dispenser boxes of 100 ambidextrous singlets.

Prod. No.	Size	Unit
2590401	small	100/box
2590402	medium	100/box
2590403	large	100/box

Gloves, Disposable, Powder Free, Nitrile

Conform to hand better than most disposable gloves, yet exert less pressure—less hand fatigue and stress. 4 mil thickness.

Prod. No.	Size	Unit
2550501	small	100/box
2550502	medium	100/box
2550503	large	100/box
2550504	extra large	100/box

Gloves, Disposable, Powder Free, Nitrile with Neu-Thera®

Powder Free Nitrile gloves are coated with skin-protecting gel that soothes and moisturizes your skin. Unique synthetic formulation offers superior puncture and chemical resistance. Mint green color. Odor free, non-sterile, ambidextrous. Length: 9.5 in., 5-6 mil thick.

Prod. No.	Description	Unit
2927401	Nitrile Gloves with Aloe Vera, Small	100/box
2927402	Nitrile Gloves with Aloe Vera, Medium	100/box
2927403	Nitrile Gloves with Aloe Vera, Large	100/box
2927404	Nitrile Gloves with Aloe Vera, Extra-Large	100/box

Goggles, Safety, Standard

Indirect ventilation system to allow free air flow through the goggle body. Large, soft body ensures an excellent fit over most prescription eyewear. Clear polycarbonate lens treated with patented Uvextreme® AF coating—protects against fogging, scratching, static and dust, and 99% of harmful ultraviolet rays up to 385nm. Absorbs 99.9% of UV up to 385nm and meet ANSI Z87+ and CSA Z94.3

Prod. No.	Unit
2927902	each

Goggles, Safety, Splash-Resistant

Full wrap design provides splash protection and allows for excellent peripheral vision. Lightweight body molds to the face for a firm seal with comfortable protection. Large size accommodates most prescription eyewear, yet adapts for use with respirators or hard hats without impeding fit. Indirect venting protects eye area against hazardous splashes and airborne particles while allowing ample air circulation for comfort. Clear polycarbonate lens treated with Uvextreme® AF coating—protects against fogging, scratching, static and dust. Absorbs 99.9% of UV up to 385nm and meet ANSI Z87+ and CSA Z94.3

Prod. No.	Unit
2927901	each

Goggles, Safety, Vented

Ply-able PVC construction means a snug, comfortable fit, even over prescription eyewear. Clear, optical-grade polycarbonate lens has a spherical design for a 160° field of vision. Choose standard lens or FogGard Plus lens, which reduces fogging in humid environments. Ultra clear lenses and blue tinted frames. Meets ANSI Z87.1 + Impact Standards.

Prod. No.	Description	Unit
2928001	Standard Lens Allsafe Goggles	each
2928002	FogGard Plus Lens Allsafe Goggles	each

Goggles, Safety, Vented

Vented indirectly for splash protection. Polycarbonate fog-free lens with superior impact protection; wide field of vision. Full face flange for comfortable wear, even over prescription glasses.

Prod. No.	Unit
2550700	each

Grinder, Mini

Grinds dried samples to homogeneous powder for more accurate analyses. Holds approximately 120 cc (7 cubic inches) of sample. Unit seals for dust-proof operation. Used for preparation of coal, soil, feeds, and other samples. Outer dimensions (H x D), 16.5 x 9.5 cm (6.5 x 3.7"). 120 Vac.

Prod. No.	Unit
2099100	each

**Replacement blades not available from Hach.*

Hand Protector

A unique silicone rubber hand protector for gripping hot beakers, flasks and other objects safely. Withstands temperatures up to 260°C (500°F). Also can be used for work with cold objects; retains its flexibility down to -57°C (-70°F).

Prod. No.	Unit
2164400	each

Handbook, Guide to Chemical Hazards, NIOSH

Comprehensive guide uses a convenient tabular format to present key industrial hygiene and medical surveillance information on 397 chemicals and compounds. Topics: Chemical and physical properties, Permissible Exposure Limits (PEL), Immediately Dangerous to Life or Health (IDLH) levels, health hazards and chemical incompatibilities, personal protection recommendations and first aid procedures. Updated every four years.

Prod. No.	Unit
2239800	each

Handbook, Microbiology of Well Biofouling

A useful reference guide written with a direct, straight forward approach based upon the advances in the technology over the last twenty years. With this guide, you will understand the phenomena of biofouling, corrosivity, biodegradation, and shifts in hydraulic transmissivity that can be linked to microbial events. Practical approaches to the evaluation of these effects are introduced, including standard and novel methodologies.

See what's new in the new edition:

- Selectable weight units: grams & ounces
- Deleterious events in all types of wells in greater detail
- Generation of mass which interferes with the physical functioning of a well
- Major innovations in the field
- Includes more field applicable material
- Completely revised and updated

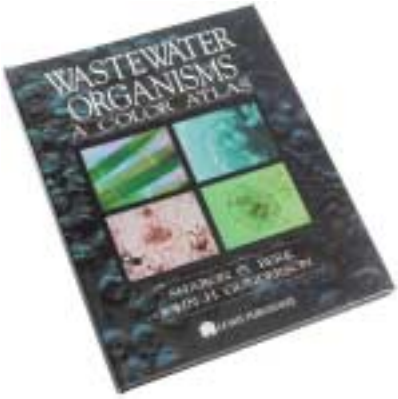
Prod. No.	Unit
2617800	each

Handbook, Standard Methods for the Examination of Water and Wastewater

The worldwide standard text for water analysis since 1905. The text provides hundreds of EPA-approved laboratory tests of water quality and properties. These methods represent the best current practice of water and wastewater analysis. Includes hundreds of tables, figures, and color plates of aquatic organisms. Copublished by American Public Health Association, Water Environment Federation, and American Water Works Association. Most current, up-to-date edition is supplied.

Prod. No.	Unit
2270800	each

Handbook, Wastewater Organisms: A Color Atlas



Contains 210 high-quality full-color micrographs to help you identify organisms found in sewage and sludge. These photos provide the maximum level of detail and will help you better understand the form and dimension of the organisms. Subjects depicted in the micrographs include bacteria, eggs, amoeba, parasitic protozoa, tardigrada (water bears), rotifers, ciliates, parasitic helminths, pollen grain, free-living nematodes, algae, flagellates, and more. The chapter on enumeration provides literature and techniques for fixing and staining, techniques often required for identification to the species level. Also contains a valuable glossary and index to make the book even easier to use.

Prod. No.	Unit
2615800	each

Hand Soap — Hot Plate/Stirrer

Hand Soap, Antibacterial

Effective against a wide variety of gram-negative and gram-positive bacteria, as well as yeast and fungi.

Prod. No.	Unit
2617700	each

Hat, Hach Logo

Hach caps, great for warm-weather wear, cotton fabric.

Prod. No.	Unit
2489625	each

Heater, Stirrer

Accommodates 500 mL round or flat-bottom flask. Motor with speed regulator controls stirring speed either separately or simultaneously with heat controller. Stirs and heats to 450°C. With PTFE-coated stir bar and support bracket for 13 mm (0.5") rod. Suitable for use with Hach distillation setup.

Prod. No.	Description	Unit
2273700	115 Vac, 60 Hz	each
2273702	230 Vac, 50 Hz	each

Hot Plate

Easy-to-read digital temperature settings features a flashing warning (CAUTION! HOT TOP) when the surface exceeds 50°C. Low-profile design to improve safety. Reflective, white ceramic top is smooth, seamless and resistant to alkali/acid solutions. Detachable cord. Built-in support rod holder (order support rod separately). Operating temperature range: 5 to 540°C (41 to 1004°F).

Prod. No.	Ceramic Top Dimensions	Electrical Specifications Volts/Amps/Watts	Unit
2881400	4.25 x 4.25" (10.8 x 10.8 cm)	120 / 3.2 / 385	each
2881500	7.25 x 7.25" (18.4 x 18.4 cm)	120 / 8.8 / 1060	each
2705900	0.5" (1.3 cm) diameter support rod		each

Hot Plate, Compact

Compact and lightweight, with a top-plate diameter of 10.1 cm (4") and total weight of 0.7 kg (1.5 lb). Machined cast-aluminum top provides uniform heat distribution. Variable control temperature to 371°C (700°F) maximum. Maximum operating temperature, reached in approximately five minutes. Three-wire, chemically resistant cord. Dimensions: (H x D), 8.3 x 10.1 cm (3.2 x 4"). 300 W.

Prod. No.	Description	Unit
1206701	120 Vac, 50/60 Hz	each

Hot Plate, Stirrer

Easy-to-read digital temperature settings features a flashing warning (CAUTION! HOT TOP) when the surface exceeds 50°C. Stirring range of 60-1200 RPM. Low-profile design to improve safety. Reflective, white ceramic top is smooth, seamless and resistant to alkali/acid solutions. Detachable cord. Built-in support rod holder (order separately). Operating temperature range: 5 to 540°C (41 to 1004°F).

Prod. No.	Ceramic Top Dimensions	Electrical Specifications Volts/Amps/Watts	Unit
2881600	7.25 x 7.25" (18.4 x 18.4 cm)	120 / 8.9 / 1070	each
2881602	7.25 x 7.25" (18.4 x 18.4 cm)	220-240 / 4.9 / 1170 CE Marked	each

Hot Plate/Stirrer, Explosion Proof

The Thermolyne SAFE-T SHP9 Explosion-Proof Stirring Hot Plate was designed for Class I, Group C or D Hazardous Atmospheres where flammable gases or vapors are present. Over temperature safety control cuts power to the unit if top plate temperature exceeds 246°C. Stirring speeds from 50 to 1200 RPM. Precise, electronic stirring speed control accurate to ± 3 RPM. Operating temperature range of the SAFE-T SHP9 is 38 to 220°C (100 to 428°F). All units include a built-in 0.5" (1.3 cm) conduit and 18" (45.7 cm) lead wires for UL required permanent electrical hook-up.

Prod. No.	Unit
2705800	each

HACH® Be Right™

800-227-4224

Outside the United States, call 970-669-3050

Humidity/Temperature Monitor

Simultaneously monitors both temperature and humidity on a large digital display. For desiccators, incubators, refrigerators, fume hoods, labs, stock rooms, clean rooms, chemical storage areas, warehouses, factories, and greenhouses. Recalls min./max. temperature and min./max. humidity readings over any time period. Stand or wall mount. Comes with 2 AAA batteries which last a full year. Temperature range: 0 to 50°C and (32 to 122°F) in 0.1°C or 0.1°F resolution with accuracy of ± 1°C, 2°F (at 32 to 104°F). Humidity range: 20% to 99%. Humidity resolution is 1%. Humidity accuracy is ±4% f.s.

Prod. No.	Unit
2694400	each

Hydrometer, Glass

For measuring the specific gravity of heavy liquids. Approximate length, 150 mm (6"). Single scale, 1.000 to 1.225 specific gravity with 0.005 divisions. 100 mL graduated cylinder sold separately.

Prod. No.	Description	Unit
192200	Glass Hydrometer	each
50842	Graduated Cylinder, 100 mL	each

Incubator, BOD

Hach's compact Model 205 BOD incubator exceeds the incubation criteria for biochemical oxygen demand (BOD) analysis, and easily fits under standard lab benches. Digital temperature display with high-limit warning light.

Capacity: 58 standard, 300 mL BOD bottles (4.0 ft^3)
Temperature Range: 5-45°C (Accuracy: ±0.5°C @ 20°C)
External Dimensions: 16 x 15.5 x 29.5" (W x D x H)

Prod. No.	Description	Unit
2616200	Model 205 BOD Incubator, 110 Vac; 60 Hz	each
2616202	Model 205 BOD Incubator, 220/240 Vac; 50/60 Hz	each
2943100	Disposable 300 mL BOD Bottles	117/case
2943900	Unbreakable Acrylic Stopper for 300 mL BOD Bottle	25/pk
190901	Glass Stopper for 300 mL BOD Bottle	each

Incubator, Culture

Hach's Low-Profile Culture Model 153 Incubator exceeds performance criteria for Standard Methods/EPA/ASTM microbiological methods with an accuracy of ±0.1°C @ 37°C. Five heating elements minimize "hot spots" and contribute to a uniformity of ±0.25°C @ 37°C. Features a High Limit Thermostat and Warning Light to guard against overheating during use, stainless steel interior and shelves (2), and maintenance free heating system. Capacity: 6.67 ft^3 Temperature Range: Ambient 5 to 70°C (Accuracy: ±0.1°C @ 20°C) External Dimensions (W x D x H): 76.2 x 76.2 x 81.3 cm (30 x 30 x 32")

Prod. No.	Description	Unit
2619200	Model 153 Low-Profile Culture Incubator 110/120 Vac, 50/60 Hz	each
2619202	Model 153 Low-Profile Culture Incubator 220/240 Vac, 50/60 Hz	each

Incubator, Culture, Portable

Field-ready unit can be used with a variety of power sources for reliable, accurate incubation. Operating range: 30 to 50°C. Accuracy: 0.5°C @ 37°C. **Power Source:** 12 Vdc via vehicle cigarette lighter socket connection. Other Power Source options include 12 Vdc rechargeable battery (12 hours of operation @ 37°C @ 20-25°C ambient) and 115/230 Vac Battery Eliminator. **Capacity:** 6 P/A bottles or 39 MPN tubes or 42 50 mm Petri dishes. External Dimensions: 30.5 x 30.5 x 25.4 cm (12 x 12 x 10"). Temperature Range: Ambient 5 to 70°C (Accuracy: ±0.1°C @ 20°C).

Prod. No.	Description	Unit
2569900	Portable Incubator	each
	Power Supplies	
2580300	Rechargeable 12 VDC battery (incl 115 Vac charger and carrying case)	each
2968100	Battery Eliminator; 115/230 Vac	each
2580301	Rechargeable 12 Vdc battery, only	each
	Racks	
2580500	P/A Bottle Rack (6 bottles; Stainless Steel)	each
2580501	MPN Tube Rack (39 tubes; Stainless Steel)	each
2580502	Petri Dish Rack (42 50-mm Petri Dishes; Stainless Steel)	each

Incubators — Lamps

Incubator, Dri-Bath

Excellent for microbiology analysis with the Most Probable Number format. Working temperature range of ambient 5 to110°C (±0.5°C). Blocks are machined aluminum with 12 wells (17-18 mm diam.), and have a thermometer well for temperature monitoring.

Prod. No.	Description	Unit
2281400	Single Block Incubator (Block Included); 120 Vac, 50/60 Hz	each
2281700	Dri-bath Incubator Block; 12 well; 17-18 mm diam	each

Incubator, Water Bath

Hach's Model 26 PC Water Bath Incubator provides accuracy and dependability for research and quality control applications. Double-walled polymer-coated stainless steel reservoir eliminates hot spots and minimizes corrosion (Do not use RO/DI/distilled water). Recessed heating element eliminates prevents burnout. Centrifugal pump provides strong circulation with low turbidity. Gable Included.

Capacity: 22.1 liters
Operating Range: Ambient 5 to 70°C; to 100°C when covered (Uniformity ±0.1°C @ 37°C)
External Dimensions (W x D x H): 35.6 x 72.4 x 24.1 cm (14 x 28.5 x 9.5")

Prod. No.	Description	Unit
2616300	Model 26PC Water Bath Incubator; 110/120 Vac 50/60 Hz	each
2616302	Model 26PC Water Bath Incubator; 220/240 Vac, 50/60 Hz	each
2621500	Gable Cover for Model 26PC Incubator	each

Jack, Laboratory, Platform

Loading platform, 15 x 15 cm (6 x 6"). Lifts 15 kg (33 lb) to a 28 cm (11") height max. Suitable for use with Hach Distillation Apparatus (See page 106).

Prod. No.	Unit
2274300	each

Laboratory Coat

White twill fabric. Three pockets. Knee length with button closure.

Prod. No.	Chest Size
2241646	46

Lamp, UV for Field or Lab

Shortwave (254 nm) UV lamps for field or laboratory use. Either lamp can be used in the lab with power supply while Portable Field Pack can only be used with the 1.75" lamp. Portable Field Pack requires a 9-Volt battery (not included) and has a belt clip for easy traveling. Both lamps are physically identical except for bulb and cord length (these are shorter in the 1.75" version). *NOTE: Not for use in microbiological applications. UV Lamp contains mercury. Dispose according to state, local or federal regulations.*

Prod. No.	Description	Unit
2670600	Portable Field Pack Power Supply	each
2670700	Power Supply, 115 Vac, 60 Hz	each
2670702	Power Supply, 220 Vac, 50 Hz	each
2670800	UV Lamp, Shortwave, 254 nm, 1.75" bulb	each
2671000	UV Lamp, Shortwave, 254 nm, 2.125" bulb	each
2704500	Lamp Kit, 115 Vac, 60 Hz (includes 1 each of 2670700, 2671000)	each
2704502	Lamp Kit, 230 Vac, 50 Hz (includes 1 each of 2670702, 2671000)	each

Lamp, UV, Long-Wave

Mid-size (6 Watt) high intensity, hand-held and line-operated. Intensity at 15.2 cm (6"), 750 µW/cm^2. Filters: Two 6 x 7.6 cm (2.4 x 3") in snap on/off frame. Overall dimensions: 37.5 x 8.9 x 6.7 cm (14.8 x 3.5 x 2.6"). Weight: 0.91 kg (2 lbs). UL listed. Meets existing OSHA electrical standards. 352 nm.

Prod. No.	Description	Unit
2184300	115 Vac, 60 Hz	each
2184302	230 Vac, 50 Hz, does not come with plug	each
2184311	Replacement bulb	each

Lamp, UV, Portable

Hand-held, battery-operated, long-wave UV lamp 365 nm. Uses four AA batteries not included (For Microbiology Applications). 4 W.
Note: Not for digestion.

Prod. No.	Description	Unit
2415200	Lamp	each
2584600	Replacement tube	each

HACH® Be Right™
800-227-4224
Outside the United States, call 970-669-3050

NEW!

Ensure the dissolved lead and copper concentration levels in your drinking water distribution system meet EPA standards with the SA1100 Scanning Analyzer.

The portable SA1100 is an easy-to-use, accurate, cost-effective instrument for monitoring lead and copper concentrations. Using differential pulse anodic stripping voltammetry, a USEPA-approved methodology for determining total lead in drinking water that can also determine total copper*, the SA1100 makes monitoring easy.

**Differential pulse anodic stripping voltammetry is approved by the USEPA only for determining lead concentrations, and acid digestion is required for reporting purposes. Hach Method 1001, Determination of Lead, for use in Lead and Copper Rule compliance monitoring.*

EPA COMPLIANT

SA1100

Parameter	Lead	Copper
Calibration	Pre-calibrated electrodes (HSE-Pb)	Pre-calibrated electrodes (HSE-Cu)
Analysis Time	3 minutes	3 minutes
Range	2-100 µg/L	50-2000 µg/L
Detection Limit	2 µg/L	50 µg/L
Resolution	1 µg/L	1 µg/L
Operating Temperature	15-30°C	15-30°C

Prod. No.	Description
5050000	SA1100 Analyzer for Lead Includes instrument, carrying case, instructions, sensor pack electrodes (Prod. No. 5050100), calibration chip and check standard.
5060000	SA1100 Analyzer for Copper Includes instrument, carrying case, instructions, sensor pack electrodes (Prod. No. 5050200), calibration chip and check standard.
REPLACEMENT CONSUMABLES	
5050100	Sensor Pack Electrodes for Lead (10 Tests) Includes electrodes (10), sample preparation tablets (10), graduated tubes (10), crushing rods and calibration chip.
5050200	Sensor Pack Electrodes for Copper (10 Tests Includes electrodes (10), sample preparation tablets (10), graduated tubes (10), crushing rods and calibration chip.

*Specifications**

Internal Memory
Stores up to 500 readings

Display
Backlit, graphical LCD, with six language options

Output Interface
Waterproof USB connection to PC

Power
Uses four AA 1.5v batteries, auto switch-off

Size
Instrument only, 170 x 126 x 116 mm

**Subject to change without notice.*

Loop, Inoculating — Microscopes

Loop, Inoculating, Disposable

Sterile, disposable, inoculating loops, packaged in zip-lock bags. Polystyrene.

Prod. No.	Description	Unit
2749125	10 µL	25/pk

Loop, Inoculating, Wire

3" nichrome V wire, 25 gauge (0.018") with 3-mm diameter loop.

Prod. No.	Unit
2112100	each

Magnifiers, Illuminated

10x magnifier features an 8D diopter, built-in mini bulb and lightweight metal body housing. 3X features shatterproof, bifocal, optical-grade acrylic lens, built-in mini bulb, and lightweight plastic housing. 10X magnifier uses 2 AA batteries, while 3X magnifier uses 2 AAA batteries.

Prod. No.	Description	Lens Diameter
2585300	Magnifier,10X	1.98 cm (0.78")
2585400	Magnifier, 3X	5.08 cm (2")

Multi-Parameter Meter

NEW!

No need to switch meters every time you switch parameters.This tester measures pH, Conductivity, TDS, Salinity and Temperature with one versatile pocket-sized meter! Replaceable sensor lets you reuse the meter body many times over saving you money. Waterproof design that floats so you never watch another meter sink again.

Range(s)				
Conductivity	0.0 to 199 µS	200 to 1999 µS	2.00 to 20.00 mS	
TDS	0.0 to 99.9 ppm	100 to 999 ppm	1.0 to 10.00 ppt	
Salinity	0.0 to 99.9 ppm	100 to 999 ppm	1.0 to 10.00 ppt	0.0 to 1.00%
pH	0.0 to 14.0			
Temperature	0.0 to 50.0°C			

Prod. No.	Description	Unit
2519800	Multi-Parameter Tester	each
2519900	Replacement Sensor	each
2520100	Belt-loop Carrying Pouch	each

Microscopes, Compound, Leica®, DM500

NEW!

The Leica DM500 microscopes provide superior image quality along with durability and a practical design that truly meets your needs. The brightfield achromatic model offers 4x, 10x, 40x, and 100x oil, while the phase model has 10x, 20x, 40x and 100x oil plus a patented 4-position slider. Both models come with led illumination that offers a minimum of 25,000 hours of daylight color temperature illumination (the bulbs do not burn out at 25,000 hours, but dim in brightness), and many other Leica unique features such as Agtreat™, which helps prevent the spread of surface bacteria. The universal power source allows easy conversion when used with the local country power cord. Power supply: 100-240V, 50/60 Hz with standard U.S. power cord. Standard Euro power cord available and sold separately.

Prod. No.	Description	Unit
2945050	DM500 with Plan Achromatic Objectives	each
2946050	DM500 with Phase Contrast Objectives	each
2945041	Euro Plug Cord only	each

Microscopes, Stereo, Leica® E-Series

Renowned for quality, the E-Series microscopes are affordable, rugged and dependable. All models feature plug and play design, no removable parts, "tool free" tension adjustment, 100 mm working distance, Leica exclusive 50-75 mm Interpupillary distance, student-proof design, built-in 25,000 hour 6500 K, sealed stage plate, true daylight, constant-color temperature power LED illumination for BOTH reflected and transmitted light, built-in universal stabilizing power supply 100-240V and dust cover.

From the rugged ES2 model to the digital EZ4 D, the E-Series has a microscope to meet your needs.

EZ4 Model Shown

Leica EZ4 with 10x Eyepiece

Includes 10x eyepieces, 4.4:1 Zoom Stereo Microscope with 8x – 35x zoom range and 10x/20 mm high eyepoint. Features include the Leica exclusive 3 directional reflected illumination, auto-shutoff after 60 minutes and a sealed light control panel.

Prod. No.	Description	Unit
2942700	EZ4 Stereomicroscope w/10x eyepiece	each

Leica EZ4 with 16x Eyepiece

Includes 16x eyepieces, 4.4:1 Zoom Stereo Microscope with 12.8x – 56x zoom range and 16x/15 mm high eyepoint. Features include the Leica exclusive 3 directional reflected illumination, auto-shutoff after 60 minutes and a sealed light control panel.

Prod. No.	Description	Unit
2942800	EZ4 Stereomicroscope w/16x eyepiece	each

Leica EZ4 D with Built-in Digital Camera

Includes 10x eyepieces, 4.4:1 Zoom Stereo Microscope with built-in 3 MPixel digital camera and 8x – 35x zoom range, and 10x/20 mm high eyepoint. Also includes Leica LAS EZ software (for PC) for image capture and simple measuring and annotation applications, built-in Secure Digital card slot (card included) for image capture without the need of a computer, live composite analog video output (selectable PAL or NTSC) and USB 2.0 output.

Features include the Leica exclusive 3 directional reflected illumination, auto-shutoff after 60 minutes and a sealed light control panel.

Prod. No.	Description	Unit
2942900	EZ4 D Stereomicroscope w/Camera	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!

Microscope Slide Warmer

Temperature range: ambient to 60°C. Capacity: fifty-six 1 x 3 in. (25 x 76 mm) or twenty-four 2 x 3 in. (50 x 76mm) slides. Coated with black Teflon® fluorocarbon resin to resist corrosion and provide high-contrast background for viewing slides. See-through cover lets you note progress of slides without interrupting heating. Cover also vented to prevent fogging, tilts back for access and lifts off for easy cleaning. Clearance between cover and deck is 1/2 in. (13mm). Graduated dial thermometer is mounted on front panel instead of warming surface. Provides more usable surface area, eliminates problem of contaminant buildup on and around thermometer. Usable heated area is 6-1/2 x 23-1/2 in. (17 x 60cm). Heats from ambient to 40 to 45°C (104 to 113°F) range (commonly used for nonadhesive mounting of sections) in just 15 minutes, and to 54°C (129°F) for dehydrating. Setting adhesives takes 20 minutes. Temperature constancy, ±3°C (±5.4°F). Uniformity, ±2°C (±3.6°F). CSA approved.

Prod. No.	Unit
2738500	each

Mortar and Pestle

Porcelain. Mortar has spout and is glazed outside. Pestle glazed to grinding surface. Coors.

Prod. No.	Description	Unit
1225400	Mortar, 65 mL capacity, 53 mm H x 80 mm O.D.	each
1225500	Pestle, 130 mm L	each

Notebook, Field

Treated polyethylene PolyPaper pages are washable and dry flat—have excellent resistance to chemicals. Virtually all pens and pencils may be used. Pages, measuring 23.5 x 28.6 cm (9.2 x 11.2"), have 6 mm grid markings and are bound with rust-proof staples. Blue polyethylene cover makes this notebook completely waterproof. Salt water, mud, chemicals, all kinds of dirt cause no damage. Pages can be written on when wet, even under water, with No. 2 pencil. 96 numbered pages.

Prod. No.	Unit
2091800	each

Notebook, Laboratory

Keep valuable notes and data safe in this hard-cover, case-bound notebook. PolyPaper pages are chemical- and tear-resistant, spunbonded polyethylene, measure 23.5 x 28.6 cm (9.2 x 11.2"). Ball-point pens may be used. Contains 108 pages, 100 of which are marked with 6 mm grid lines. Remaining pages are marked for indexing or left blank for user's notes. Contains instructions for keeping a scientific notebook.

Prod. No.	Unit
2091900	each

Oil and Grease Systems, SPE, Xenosep®

Xenosep Solid-Phase Extraction (SPE) Systems offer the easiest and most cost effective way to test for Oil and Grease using EPA Method 1664A. Fast, in-house results enable you to maintain control over your plant discharges in real time without the complications of the hexane LLE procedure. Xenosep SPE filters feature a unique triple layer that prevents premature clogging and flows 10 times faster than typical SPE filters.

Lab Stand and Clamp sold separately.

Take a video tour of this system at: www.hach.com/videos

It is now possible to easily achieve reliable, consistent Oil and Grease results and decrease your sample turnaround time. A free training video on CD is included with each Starter Kit to show your lab how to perform EPA Method 1664A by SPE. For more information on Xenosep SPE Systems, visit our website at www.hach.com/xenosep.

Xenosep SPE Systems are available in convenient kits which include the components for 24 tests and all the glassware required to process them, one at a time. Replacement components are also available.

Prod. No.	Description	Unit
2943231	Xenosep SPE Systems Starter Kit	each

Select Replacement Components (others available upon request)

Prod. No.	Description	Unit
2943800	Xenosep SPE Consumables Kit (includes 24 each 2943300, 2943400 and 2943500)	each
2943300	SPE Filters, 1664A, 47 mm	48/pk
2943400	Pipets, Transfer, Polyethylene, 15 mL	48/pk
2943500	Inline Column with Sodium Sulfate, 10g	48/pk
2943600	Glass Wool Fibers 50 g	each
2943701	EPA 1664A Standard, 1x30 mL, 4mg/mL	each
2943702	EPA 1664A Standard, 1x10 mL, 4mg/mL	each
2943226	Aluminum Pans, 105 mm	100/pk
2943227	Hi-Loft GFM Prefilters, 42 mm	48/pk

Learn more about Oil & Grease Systems in our Sample Preparation Section, see pages 103-108.

ORP Testr™ 10

NEW!

Ideal for water treatment applications including ozone systems, free chlorine activity, drinking water and water pollution. Replaceable electrode lets you reuse the meter body many times over saving you money. Double-junction electrode design significantly extends electrode life, especially in harsh conditions. Features Hold function and Auto-off.

- *Auto-off function*
- *Waterproof, dustproof housings that float*
- *Include four 1.5V batteries*

Range	Resolution	Accuracy	Calibration	Operating Temp
-999 to +1000 mV	1 mV	±2 mV	Offset ±150 mV	0 to 50°C

Prod. No.	Description	Unit
2967400	ORP Testr 10	each
2967500	Replacement Sensor for ORP	each
2520100	Belt-loop Carrying Pouch	each

Oven, General Purpose

NEW!

General-purpose ovens for drying, sterilizing, baking, annealing, conditioning, evaporating, and dehydrating. Natural convection oven provides fast, electronically controlled drying. Has adjustable exhaust port for venting, independent safety controller, stainless steel interior, digital temperature display, and two chrome-plated shelves.

- Temperature range: 5°C (9°F) above ambient to 300°C (572°F) ±1.5°C
- Integrated timer: 0-99 hours
- External dimensions: 32.8 x 25.4 x 27.6". Internal dimensions (23.6 x 15.8 x 18.")

Prod. No.	Description	Unit
2615500	Natural Convection Oven, 115 Vac, 50/60 Hz	each
2615503	Natural Convection Oven, 230 Vac, 50/60 Hz	each

Oven, Laboratory

For drying, baking, annealing, conditioning, sterilizing, evaporating, and dehydrating. Factory-tested. Sturdy welded steel construction. Ample insulation. Two nickel-plated shelves adjustable at 12.7 mm (0.5") increments. Thermostatically controlled with damper-controlled, gravity convection air circulation. Red pilot light indicates heater action. Gray-green, hammerloid, baked enamel finish. Three-wire cord and plug standard. Inside dimensions: 30w x 25d x 25h cm (11.8 x 9.8 x 9.8"). Outer dimensions: (19h x 14w x 12d"). Temperature range is ambient to 200°C Control is ±15°C.

Prod. No.	Description	Unit
1428900	120 Vac, 60 Hz	each
1428902	240 Vac, 50 Hz	each

Pad, Cooling

Protects counter tops from scorches and burns. 10 x 10 cm (4 x 4"). Thickness, 6 mm (0.24") thick.

Prod. No.	Unit
1837600	each

Parafilm® M Laboratory Film

Seals labware quickly, effectively. Film prevents sample evaporation and contamination; protects anhydrous materials. Can be folded repeatedly and twisted around sharp surfaces without rupturing. Stretched lengthwise at 21°C (71°F), Parafilm M increases approximately 200%. Becomes more flexible, softer, stronger as temperature increases. Resistant to alcohol, medium-concentration acid, and alkalies. Width: 10 cm (4"); 38-m (125') roll.

Prod. No.	Unit
251764	each

Pen, Laboratory

Use this felt-tip pen for permanent marking with black ink on glass and plastic items. Ink dries quickly. Markings on glass or plastic are not affected by repeated autoclaving.

Prod. No.	Unit
2092000	each

pH Eco Testr™ 2

NEW!

Single junction electrode is well suited for general-purpose, less demanding applications. Ideal for dirty and damp field conditions. Display orientation means no need to turn your head or tilt the tester. Buffer recognition at 4.0, 7.0 and 10.0. Other features include:

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

Range	Resolution	Accuracy	Calibration	Power	Battery Life
0.0 to 14.0 pH	0.1 pH	±0.1 pH	up to 3 Point	4 x 1.5V	>300 hours

Prod. No.	Description	Unit
2520200	Eco pH Testr 2	each
2520100	Belt-loop Carrying Pouch	each

pH Paper

Provides simple, fast, economical method of pH measurement. Sharp color change for each 0.5 pH unit. Can be used with handy dispenser (Product No. 2611000). Convenient for sample pH adjustments. Recommended for sewage water, not finished water. Five 4.6-meter (15') rolls per package.

Prod. No.	Description	Unit
37333	3.0-5.5 pH range	each
37633	4.5-7.5	each
37933	6.0-8.0	each
38533	9.0-12.0	each
39133	1.0-11.0	each
2601300	0-14 units, 100/pack. EM Science.	each
2611000	pH Paper Dispenser	each

pH Testr™ 10

pH Testr is the perfect tool for quick, routine pH testing. Replaceable electrode lets you reuse the tester body many times over, which saves you money. Testr is certifiable to IP67 standards, and features Automatic Temperature Compensation (ATC), push-button three-point calibration and auto buffer recognition. Double Junction Testr features unique double junction electrode design and increased reference gel volume to give you significantly longer electrode life, especially in harsh applications.
See pages 52-53 for Buffers required for calibration.

Range	Resolution	Accuracy	Calibration	Power	Battery Life
-1.0 to 15.0 pH	0.1 pH	± 0.1 pH	up to 3 Point	4 x 1.5V	>100 hours

Prod. No.	Description	Unit
2956100	Double Junction pH Testr	each
2956110	Replacement electrode – Dbl. Junction pH Testr	each

Pipet Aids

Pipet Controller, Brinkmann

Features one handed operation to aspirate/dispense with most pipets from 0.1-100 mL. Added safety from contamination with in-line filter (changeable).

Prod. No.	Description	Unit
2489200	Brinkmann Pipet Helper	each
2489300	Replacement Filters	10/pk

Pipet Controller, Powerpette Plus

Lightweight, rechargeable pipet controller offers finger tip control in an easy-to-hold pistol grip shape. Eight-hours of use on a single charge and can be charged while in use. Programmed with three aspirate & dispense modes (including gravity dispense for "to deliver" pipets). Low battery warning light. Suitable for most pipets from 1.0-100 mL. Complete set includes rechargeable nickel metal hydride battery. AC adapter, autoclavable pipet stand, three hydrophobic filters (two 0.45 µm; one 0.2 µm), and instruction manual. CE marked.

Prod. No.	Description	Unit
2799500	Powerpette Plus Pipet Controller	each
2799401	Replacement 0.45 µm filters	5/pk
2799403	Replacement pipet holder (nose cone); silicone	each

Pipet Controller, Safetypetter

Simple, controllable pipet filler provides easy aspiration and dispensation at variable speeds. Fits most 1-100 mL pipets. Includes a built-in filter for contamination control (can be replaced).

Prod. No.	Description	Unit
2799400	Safetypetter Pipet Filler	each
2799401	Replacement Filters (0.45 µm)	5/pk
2799403	Replacement Pipet Holder; silicon	each

Pipet Filler, Safety

Easy "1-2-3" operation. Squeeze the "1" valve to discharge air in top bulb. Squeeze valve "2" to draw up sample. Squeeze valve "3" to dispense. Fits all standard-sized pipets. Durable silicone with glass ball valves for long life. Meets OSHA requirements.

Prod. No.	Description	Unit
1218900	3-Valve Safety Pipet Filler	each

Pipet Filler, Safety Bulb

Unique cone adapter allows universal pipet filling. Squeeze bulb to charge for filling and place cone adapter onto pipet in sample. Release the bulb to fill. Remove bulb and cover pipet end with finger for dispensing. Easy and safe.

Prod. No.	Description	Unit
1465100	Safety Bulb Pipet Filler	each

Pipet Filler, Small Volume

Dropper bulb slips over the end of Pasteur and other small volume pipets (approximately 1 mL). Latex.

Prod. No.	Description	Unit
2676800	Dropper Bulb Pipet Filler For pasteur pipettes	12/pk

Pipets

Fixed Volume, Micropipette

Micropipette features a two-stage plunger dispenser, which ensures high accuracy and precision in pipetting techniques and facilitates last drop dispensing. Unique tip cone accepts both micro and ultra micro pipet tips. Each micropipette is fully autoclavable and color-coded for easy identification. Includes one pipet tip. Additional pipet tips sold separately.

Prod. No.	Capacity	Accuracy	Unit
2946001	5 µL	1.5%	each
2946002	10 µL	1.0%	each
2946003	20 µL	0.5%	each
2946004	25 µL	0.5%	each
2946005	50 µL	0.4%	each
2946006	100 µL	0.3%	each
2946007	200 µL	0.5%	each
2946008	250 µL	0.5%	each
2946009	500 µL	0.5%	each
2946010	1000 µL	0.5%	each

Pipet Tips for Micropipette

Disposable polypropylene pipet tips.

Prod. No.	Description	Unit
2948700	5 to 200 µL Tips	1000/pk
2511900	250 to 1000 µL Tips	1000/pk

Pipets continued on next page.

Pipets (continued)

Mohr (Measuring) Pipet, Glass

Class B pipets calibrated "To Deliver". Permanent brown, graduated scale fused into body. Color coded for volume. Tips hardened for durability. Designed from ASTM E1293, Class B Style 1 requirements.

Prod. No.	Capacity (mL)	Graduations (mL)	Tolerance (mL)	Color Code	Unit
2093400	0.1	0.01	±0.005	White	each
2093635	1.0	0.01	±0.02	Red	each
2093636	2.0	0.1	±0.02	Green	each
2093437	5.0	0.1	±0.04	Blue	each
2093438	10.0	0.1	±0.06	Orange	each
2093440	25.0	0.1	±0.1	White	each

Mohr (Measuring) Pipet, Polypropylene

Graduated, translucent polypropylene pipets. Ideal for silica analysis. Autoclavable (Temperatures above 60°C can cause changes to volumes).

Prod. No.	Capacity (mL)	Graduations (mL)	Tolerance (mL)	Unit
210635 **210665**	1	0.1	± 0.02	each 12/pk
210637 **210667**	5	0.1	± 0.04	each 12/pk
210638 **210668**	10	0.1	± 0.06	each 12/pk

Serological Pipet, Glass

Graduated glass pipets. Calibrated "To Deliver". Designed to ASTM E1044 specifications.

Prod. No.	Capacity (mL)	Graduations (mL)	Tolerance (mL)	Unit
919002	1	0.01	0.02	each
53236	2	0.1	0.02	each
53237	5	0.1	0.04	each
53238	10	0.1	0.06	each
206640 **206670**	25	0.1	±0.2	each 12/pk

Serological Pipet, Sterile, Glass

Sterile, glass pipet with blue graduation scale. Calibrated "To Deliver". Complies with ASTM E438, Class B requirements and designed from ASTM Specification E714.

Prod. No.	Capacity (mL)	Graduations (mL)	Negative Graduations (mL)	Tolerance (mL)	Unit
2093135 **2093165**	1	0.01	0.2	±0.02	50/pk 500/pk
2093136 **2093166**	2	0.01	0.2	±0.04	35/pk 175/pk
2093127 **2093157**	5	0.1	1	±0.15	25/pk 400/pk
2093128 **2093158**	10	0.1	2	±0.3	25/pk 400/pk

Serological Pipet, Sterile, Polystyrene

Sterile, disposable plastic pipet. Individually wrapped. Color coded. Calibrated "To Deliver". Complies with ASTM E934.

Prod. No.	Capacity (mL)	Graduations (mL)	Negative Graduations (mL)	Color Code	Unit
2092625 **2092655**	1	0.01	0.3	Yellow	50/pk 1000/pk
2092626 **2092656**	2	0.01	0.3	White	50/pk 1000/pk
2092627 **2092667**	5	0.1	2	Blue	50/pk 200/pk
2092628 **2092668**	10	0.1	3	Orange	50/pk 200/pk

Serological Pipet, Sterile, Polystyrene with Plug

Sterile, disposable plastic pipet with plug. Bulk packaged in 25/pack Color coded. Black ascending/descending graduations. Calibrated "To Deliver". Accuracy ±2%.

Prod. No.	Capacity (mL)	Graduations (mL)	Color Code	Unit
2092835 **2092855**	1	0.01	Yellow	50/pk 1000/pk
2092826 **2092856**	2	0.01	Green	50/pk 1000/pk
2092828 **2092868**	10	0.1	Red	50/pk 500/pk

Pipets continued on next page.

Pipets (continued)

Single Channel Pipet

Hach's new variable volume single-channel, air-displacement pipets feature robust design, comfortable ergonomics, slim-line tip ejection, and single-handed operation. Outstanding accuracy with adjustments in 50 µL increments (0.05 mL). Ideal for use with Hach TNTplus™ reagents. Supplied with calibration tool.

Product Number	Volume (mL)	Accuracy
BBP078	0.2-0.4	0.8-0.65%
	0.5-1.0	0.60%
BBP065	1.0-5.0	0.05%

Prod. No.	Description	Unit
BBP078	0.2-1.0 mL Pipet	each
BBP065	1.0-5.0 mL Pipet	each
LZP320	One each of BBP078 and BBP065, plus one box (ea) of tips	pk
BBP079	Pipet Tip for BBP078	100/pk
BBP068	Pipet Tip for BBP065	75/pk

TenSette® Single Channel Pipet

Perform accurate, economical pipetting with Hach's TenSette® pipets. Single-channel, air-displacement pipets come in two models: 0.1-1.0 mL volumes (0.1 mL increments) or 1.0-10.0 mL (1.0 mL increments). Volume selection with a simple twist of the turret.

Prod. No.	Description	Unit
1970001	TenSette Pipet: 0.1-1.0 mL; incl. 50 tips	each
2185696	Pipet Tips: 0.1- 1.0 mL; non-sterile	50/pk
2185628	Pipet Tips: 0.1- 1.0 mL; non-sterile	1000/pk
1970010	TenSette Pipet: 1.0 -10.0 mL; incl. 50 tips	each
2199796	Pipet Tips: 1.0-10.0 mL; non-sterile	50/pk
2199725	Pipet Tips: 1.0-10.0 mL; non-sterile	250/pk
2558996	Pipet Tips: 1.0-10.0 mL; sterile (indiv. wrapped)	50/pk

Transfer Pipet, Sterile

LDPE 0.5 & 1.0 mL marks 3 mL capacity.

Prod. No.	Description	Unit
2232512	Sterile Transfer Pipet	15/pk

Volumetric Pipet, Class A, Glass

Glass Class A pipets unserialized and calibrated "To Deliver". Designed to ASTM E969 specification for accuracy and ASTM E1273 for color coding.

Prod. No.	Capacity (mL)	Tolerance (mL)	Color Code	Unit
1451534	0.5	± 0.006	2 Black	each
1451535	1	± 0.006	Blue	each
1451536	2	± 0.006	Orange	each
1451503	3	± 0.01	Black	each
1451504	4	± 0.01	2 Red	each
1451537	5	± 0.01	White	each
1451538	10	± 0.02	Red	each
1451539	15	± 0.03	Green	each
1451520 **1451550**	20	± 0.03	Yellow	each 6/pk
1451540 **1451570**	25	± 0.03	Blue	each 6/pk
1451541 **1451571**	50	± 0.05	Red	each 6/pk
1451542	100	± 0.08	Yellow	each

Volumetric Pipet, Class A, Certified, Glass

Glass Class A pipets serialized and calibrated "To Deliver". Each comes with Certificate of Identification and Capacity. Marked with an "A" to designate compliance to ASTM E969.

Prod. No.	Capacity (mL)	Tolerance (mL)	Color Code	Unit
2636166	2	± 0.006	Orange	6/pk
2636167	5	± 0.01	White	6/pk
2636168	10	± 0.02	Red	6/pk
2636150	20	± 0.03	Yellow	6/pk
2636171	50	± 0.05	Red	6/pk
2636172	100	± 0.08	Yellow	6/pk

Pitcher, Graduated

Chemical-resistant, shatter-proof, tall-form pitchers with well-designed spouts, and large handles. Metric graduations are molded onto outside wall of each pitcher. Polypropylene, steam autoclavable at 250°F (121°C).

Prod. No.	Capacity (cc)	Height	Graduations (mL)
2612846	250	119 (4.7")	5
2612849	500	135 (5.3")	10
2612853	1000	167 (6.6")	50
2612854	2000	205 (8.1")	100

Pumps, Vacuum — Racks

Pump, Vacuum, Hand-Operated

This unit is ideal for field use and is a real convenience in the lab. Pumping rate is 15 cc (0.50 oz) per stroke. Entire unit is corrosion-resistant, sealed, and self-lubricating. Nozzle fits standard 6 mm (1/4") I.D. tubing. Supplied with 61 cm (2') of clear plastic tubing. Choose with or without vacuum gauge.

Economy model shown.

Prod. No.	Description	Unit
1428300	Economy Hand Pump	each
2094100	Hand Pump with Vacuum Gauge	each

Pump, Vacuum Pressure, No-Oil

Provides up to 68.6 cm (27") Hg vacuum for applications in laboratory, office or industrial plant—vacuum distillation, filtration, and air pollution studies employing membrane filters. Quiet, pulse less air delivery and vacuum. Compact dimensions (WxDxH) 15x39x20 cm (6x15.4x8 inches). Complete with vacuum and pressure gauges and regulators, hose nipples, outlet filter, switch, cord, and plug.
Capacity: 0.6 liters/sec (1.3 cfm) at 0 mm Hg. 124 W (1/6 HP).

Prod. No.	Description	Unit
2824800	115V, 60 Hz, 1.2 cfm, 1725 RPM w/ N. American plug	each
2824801	220V, 60 Hz, 1.2 cfm, 1725 RPM w/ N. American plug	each
2824802	220V, 60 Hz, 1.2 cfm, 1725 RPM w/ European plug	each
2824900	Pump maintenance kit for 115V Model	each
2824901	Pump maintenance kit for 220V Models	each

Pump, Vacuum Pressure, Large, No-Oil

Provides up to 27.6" Hg vacuum for applications in laboratory, office or industrial plant—vacuum distillation, filtration, and air pollution studies employing membrane filters. Quiet, pulse less air delivery and vacuum. Complete with vacuum and pressure gauges and regulators, hose nipples, outlet filter, switch, cord, and plug. Capacity: 100 liters/min (3.5 CFM). 1/3 HP.
Dimensions (LxWxH): 15x10x10 inches.
Weight: 16.5 lbs.
Tubing needed: 3/8".

Prod. No.	Description	Unit
2947000	115V, 60 Hz, 3.5 CFM	each

Rack, BOD Bottle

Rugged PVC-coated wire rack provides corrosion resistant transport system for 300 mL BOD bottles. Racks interlock for efficient transport and storage.

Prod. No.	Description	Unit
2094200	12 Bottle BOD Rack	each

Rack, COD and Test Tube

Stainless steel rack for holding hot COD vials or test tubes prior to reading. Fit Hach COD vials and Test 'N Tube vials. Vials not included.

Prod. No.	Description	Unit
1864100	COD Rack	each

Rack, Coliform (MPN) Tube

Powder-coated steel rack holds 25 Hach MPN-style tubes (and similar tubes) for incubation, transport, or storage. Compartments keyed with numbers and letters to aid in identification. Autoclavable (up to 475°F).

Prod. No.	Description	Unit
221500	Coliform (MPN Tube) Rack	each

Rack, Drying

Epoxy-coated, steel-wire drying rack for test tubes, vials, flasks, cylinders, beakers and other laboratory glassware. Rack can be used standing up, lying down or mounted to the wall. Incorporated drain pan design keeps your counter dry. Choose small capacity rack to hold 26 pieces of glassware, or the large capacity rack to hold 90 pieces of glassware.

NEW LARGER SIZE!

Prod. No.	Description	Unit
2089000	Small	each
2089010	Large	each

HACH® Be Right™

800-227-4224
Outside the United States, call 970-669-3050

Rack, Electrode

Polypropylene, eight-place rack for storage, conditioning, cleaning of electrodes. Can also accommodate tubes up to 20 mm (OD).

Prod. No.	Description	Unit
2089400	Electrode Rack	each

Rack, Pipet

Polypropylene, fifty-place rack for safe, orderly storage of pipets. Helps create an efficient storage system or a well organized liquid handling station. Holes in top and middle decks are 16 mm diameter (0.63"); bottom holes are tapered to 6 mm (0.24") to prevent contact with supporting surface. Autoclavable to 122°C. Overall dimension: 21 x 11 x 22 cm (8.3 x 4.3 x 8.7").

Prod. No.	Unit
2094700	each

Rack, Sample Bottle/Bag

Plastic-coated wire rack provides corrosion resistant transport system for sample bottles and bags. Racks feature 15 or 20 compartments with double-grid bottom to prevent loss of samples during transport. 15 compartment rack is ideal for Whirl-Pak® sample bags (4 oz). 20 compartment rack fits most bottles associated with standard drinking water sampling. Autoclavable.

Prod. No.	# of Compartments	Compartment Dimensions	Overall Dimensions	Unit
2551800	15	4.4 x 3.8 cm (1.75 x 1.5")	21 x 15.2 x 8.3 cm (8.3 x 6.0 x 3.3")	each
2551801	20	6.4 x 6.4 cm (2.5 x 2.5")	34 x 27 x 10.2 cm (13.4 x 10.6 x 4.0")	each

Rack, Test Tube, No-Wire

Ninety-place No-Wire Rack features locking mechanism that prevents "floaters" in water baths and speeds decanting by allowing the whole rack to be inverted. Heavier-than-water polypropylene assures non-floating racks when immersed, even in agitated water. Autoclavable. Numbered and lettered rows (6 x 15 array) aid in identification of tubes (10-13 mm diameter). Collapsible for storage, yet assemble in seconds. Overall dimensions: 24.8 x 10.5 x 7 cm (9.75 x 4.12 x 2.75").

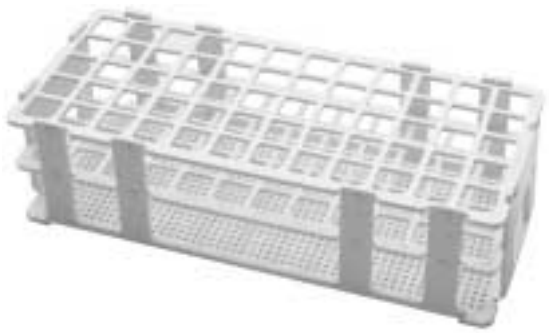
Prod. No.	Unit
2587300	each

Rack, Test Tube, Polyethylene

Twelve-place rack accepts up to 24 mm (O.D.) tubes and has five pins for inverting tubes for drying. Autoclavable.

Prod. No.	Description	Unit
1488600	Polyethylene Test Tube Rack	each

Rack, Test Tube, Polypropylene



Twenty to ninety-place rack features a special blend of polypropylene which sinks in water, assuring non-floating racks when immersed. Autoclavable. Stackable and autoclavable. Overall dimensions: 24.6 x 10.7 x 6.4 cm (9.7 x 4.2 x 2.5").

Prod. No.	Max. Tube Diam. (O.D.)	No. of Holes	Arrangement	Unit
2497900	13 mm	90	6 x 15	each
2497901	16 mm	60	5 x 12	each
2497902	20 mm	40	4 x 10	each
2497912	20 mm	20	4 x 5	each
2497903	25 mm	24	3 x 8	each
2497904	30 mm	21	3 x 7	each

Respirator, Disposable, for Dust and Mist

Soft material in inner face-piece doesn't irritate skin. Adjustable nose-clip and soft foam nose-piece provide a custom fit. Protection against dust and mist not less than 0.05 mg/m^3. NIOSH-MSHA approved, No. TC-21C-351. Package of 20.

Prod. No.	Unit
2550800	each

Ring, Support

Cast-iron construction with zinc-plated finish. Distance from center of ring to center of clamp is 108 mm (4.25").

Prod. No.	Ring (I.D., O.D.)	Unit
58000	(67, 83 mm)	each
58001	(92, 108 mm)	each
2656300	(102, 118 mm)	each

Use Clamp, Prod. No. 32600 (page 335) with 2656300.

Rod, Stirring — Sampler, Grab

Rod, Stirring, Glass

For stirring. 150 mm (6") long, 5.0 mm (0.196") diameter.

Prod. No.	Unit
177001	3/pk

Salt Tester

Low Range Tester

High Range Tester

Low Range Tester is ideal for spot checking NaCl-based samples. Display reads direct concentration—no manual corrections are necessary. Push button calibration provides easy and precise field calibration. Hold function freezes measurement for easy viewing and recording. Measures up to 10.00 ppt salinity.

High Range Tester displays a quick ppm readout based on NaCl curve and offers two modes of five-point calibration. For quick and easy calibrations, use automatic mode with preset calibration points at the most popular values. For more flexibility, calibrate in the manual mode and set your calibration point at any value. Measures up to 50.0 ppt salinity.

Prod. No.	Description	Unit
2510700	Salinity Tester - Low Range	each
2510800	Salinity Tester - High Range	each
18349	Calibration Solution, NaCl, 500 mL	each

Sample Container

Plastic, leak-proof. Corning Snap Seal™ offers a non-sterile, leak-proof, attached cap container for field use in sampling water, soils, and sludge. Locking device helps prevent accidental opening of sample; container closes with patented sealing mechanism so sample won't leak.

Prod. No.	Description	Unit
2552114	45 mL	600/pk
2552212	120 mL	250/pk
2552411	240 mL	140/pk
2552511	300 mL	100/pk
2263174	Sample cups, disposable	2500/pk
2263146	Sample cups, disposable	100/pk
2263274	Lid for sample cup	3000/pk

Sample Transport Kit

Contains everything needed for collecting field samples, keeping them cold during transport. Includes Rubbermaid Cooler, plastic-coated rack with 15 compartments for sampling bags, 100 Whirl-Pak sampling bags (177 mL) with dechlorinating agent, one leak-proof refrigerant pack. Dimensions: 42.4 x 28.4 x 58.6 cm (16.7 x 11.2 x 23.1").

Prod. No.	Description	Unit
2568700	Sample Transport Kit	each

Sample Vial

120 mL sterile, hinged-cap vials meet all EPA requirements for microbiology sampling. Collection, incubation, and accurate reading can all be done in the vial without a transfer step. 100 mL raised fill line. Polypropylene.

Prod. No.	Description	Unit
2634001	120 mL with Thiosulfate and Custody Tie	200/pk
2634002	120 mL without Thiosulfate	200/pk

Sampler, Grab

Guarantees underwater sampling without surface contamination. Assists in conforming to procedures described in the USEPA Handbook for Monitoring Industrial Wastewater. Clamp the sterilized, capped bottle onto the grab sampler before sterilizing. Remove cap, collect sample, and replace cap without touching the bottle or getting wet. Sampler is constructed of 1.9 cm (0.75") rigid square aluminum tubing with baked enamel finish. Comes complete with clamp and graduated 1000 mL borosilicate glass sampling bottle with Teflon-lined cap. Adjustable clamp for smaller bottles also provided. Sampler length: 1.8 m (6'). Weight: 1.8 kg (4 lb).

Prod. No.	Description	Unit
2095200	Grab Sampler	each

HACH® Be Right™

800-227-4224

Outside the United States, call 970-669-3050