Cole-Parmer®
scientific experts

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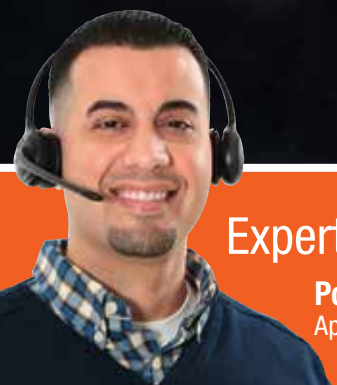
See page 1 for details

GUARANTEED GIS IN STOCK

Lab Essentials

Products to help you **collect**, **prepare**, and **analyze** your samples



Expert product assistance

Polo,
Application Specialist

1-800-323-4340
ColeParmer.com

Cole-Parmer: experts in science, dedicated to your success

At Cole-Parmer, you come first. We've been in the industry more than 60 years, so we understand your expectations and challenges. That's why you will only find industry-leading brands you can trust, backed by a team of application experts who will work with you to meet your requirements. Consider us part of your team. We are dedicated to being your one source for fluid handling, test & measurement, and biosciences equipment, plus supplies and consumables. Your 100% satisfaction is our number one goal.

We look forward to helping you succeed.

Have questions?

We have answers.

Our team of highly-trained technical specialists has more than 150 years of experience solving the most demanding customer applications. We will work with you on product selection, troubleshooting, regulatory compliance, or maintenance and repair. With expertise across scientific and industrial disciplines, we will help you achieve the highest performance and cost effectiveness for your project. Call, email, or live chat today to put us to work for you.

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Ensure Your Accuracy. Get Calibrated.

✔Precalibration
✔Recalibration
✔Repair

INNOCAL®
INNOVATIVE CALIBRATION SOLUTIONS

Conformity*
ANSI/ISO/IEC 17025:2005 accredited
NIST Handbook 150, 2000 Edition
ANSI/NCSL Z540-2-1997
NIST Technical Note 1297 ISO 9000:2000
*Please check our scope of accreditation for any limitations.

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Look Inside for…

Apparel 2
Balances 3–4
Baths & Circulators 5
Bags 6
Beakers 6–10
Bottles 11–15
Brushes 16
Burettes 17
Cable Ties 18
Carboys 19–20
Cell Culture 21
Centrifuges 22
Chromatography 23–27
Clamps & Supports 28
Cleaning Solutions 29
Conductivity 30–31
Containers 32–33
Controlled Environment 34
Cryogenics 35–38
Cylinders 39–40
Filtration 41–42
Fittings 43–45
Flasks 46–47
Funnels 48
Gloves 49
Heating Equipment 50
Homogenizers 51
Humidity 52
Hydrometers 53
Microbiology 54–55
Mixers 56–57
pH/Ion 58–62
Pipettes & Pipettors 63–64
Pumps 66–67
Racks 68
Refrigeration 69
Scoops & Spoons 70
Shakers 71–72
Spatulas & Stir Rods 73
Spectroscopy 74–75
Stirrers & Hot Plates 76–78
Tape 79
Temperature 80–86
Timers & Stopwatches 87
Tongs & Tweezers 88
Trays 89
Tubing 90–93
Ultrasonic Cleaners 94
Vacuum Pumps 95
Vials 96

Stock up & Save!

NEW
Cole-Parmer® elements™
Modular Magnetic Stirrer

NEW
Digi-Sense®
IR Thermometer with
Bluetooth® Connectivity

You Need It. We've Got It! Guaranteed.

GUARANTEED GIS IN STOCK

Look for items with a GIS icon and catalog numbers highlighted in **orange.** If any of these items are not in stock when you order, we will pay the shipping costs!*

*GIS items in this catalog are guaranteed in stock through 12/31/19 when you use the two-letter alpha code prefix with the product catalog number. Program valid only in the US and Canada. Cole-Parmer reserves the right to extend or remove GIS items at any time.

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1 resource
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Flame-Resistant Lab Coats

Don't get burned by flames

– Protect yourself when working with flammable chemicals in the lab

Constructed of flame-resistant 100% cotton, these lab coats feature three outside pockets, side vent openings, hemmed sleeve ends, and a lapel collar. Rated to Arc Thermal Protective Value (ATPV) of 7.7 calories/cm² and a Hazard Risk Category level of HRC1. Color is light blue.

Size	Length	Catalog number	Price/ea
Small	41½" (105.4 cm)	KB-86468-30	
Medium		KB-86468-31	
Large		KB-86468-32	
X-large		KB-86468-33	

Cuffed Unisex Lab Coats

Make wearing a lab coat a snap

– Easy to secure with six snaps up front

– Protect wrist and arms with polyester knit cuffs

An inside breast pocket prevents product contamination. Two additional patch-type pockets can be used in less stringent environments. White polyester and cotton blend poplin is easy to care for, looks fresh, and stays wrinkle-free all day. Made in the USA.

Lab coats are also available with your name custom embroidered above the left breast pocket. Royal blue embroidery fashions your name in a roman block font measuring ¾" (1.9 cm) H. Please specify the name(s) you want embroidered (up to 11 characters) when you place your order.

Personalize your lab coat for a more professional look!

Size	Length	Lab coat		Embroidered lab coat	
		Cat. no.	Price	Cat. no.	Price
Small (36–38)	41½" (105 cm)	KB-86351-00		KB-86351-10	
Medium (38.5–42)		KB-86351-02		KB-86351-12	
Large (42.5–46)		KB-86351-04		KB-86351-14	
X-large (46.5–50)		KB-86351-06		KB-86351-16	

Polylatex Shoe Covers

Keep your feet dry

– Resist liquid for better protection

This shoe cover is made of durable, water resistant, lint-free blue polylatex. Polylatex offers better protection from liquid and more durability than other materials.

Size	Qty/cs	Catalog number	Price/cs
Extra large	150 pair	KB-86228-12	

Tyvek® Lab Coats

No tearing or snags

– Tyvek material resists snags, tears, punctures, and abrasions for better protection against airborne contaminants

Feature serged seams, five-snap front, and collar. White color; unisex.

Size	Catalog number	Price/ea
Medium	KB-86225-31	
Large	KB-86225-32	
X-large	KB-86225-33	

META Unisex Poly-Cotton Lab Coats

No more stains

– Polyester/cotton blend resists stains

Side slits allow easy access to pants pockets. Coats are 40" (101.6 cm) long and feature three spacious pockets and an adjustable back belt.

"Awesome protection."

Unisex size	Length	White	Light blue	Black	Navy blue
M (36-40)	40" (101.6 cm)	KB-10503-04 /ea*	KB-10505-04 /ea*	KB-10503-14 /ea*	KB-10504-04 /ea*
L (42-44)	40" (101.6 cm)	KB-10503-05 /ea*	KB-10505-05 /ea*	KB-10503-15 /ea*	KB-10504-05 /ea*
XL (46-48)	40" (101.6 cm)	KB-10503-06 /ea*	KB-10505-06 /ea*	KB-10503-16 /ea*	KB-10504-06 /ea*
XXL (50-52)	40" (101.6 cm)	KB-10503-07 /ea*	KB-10505-07 /ea*	KB-10503-17 /ea*	KB-10504-07 /ea*
XXXL (54-56)	40" (101.6 cm)	KB-10503-08 /ea*	KB-10505-08 /ea*	KB-10503-18 /ea*	KB-10504-08 /ea*

*Discounts: Save 10% on 6–11 coats; 15% on 12–23 coats; 20% on 24+ coats.

Polypropylene (PP) Shoe Covers

Contain particulates from shoe soles

– 100% spunbond PP

– Available in regular or skid-free

Description	Size	Qty/cs	Catalog number	Price per case	
				1 cs	12 cs
Regular sole	Extra large	150 pairs	KB-86227-82		
Skid-free sole			KB-86227-92		

Cole-Parmer® Symmetry® PT Toploading Balances

Large weighing surface allows placement of a variety of samples

- Weighing modes include parts counting, percent weighing, checkweighing, animal/dynamic weighing and density determination
- USB and RS-232 interfaces offer connection to a computer or printer for GLP/GMP-compliant outputs
- Sealed keypad, splashproof design, and removable stainless steel weighing pan
- An oversized backlit LCD provides clear visibility of weighing results
- Digital filters compensate for vibration, drafts or temperature changes
- Fast stabilization and response time

Symmetry®

What's included: AC power adapter. The 210-g and 410-g models also include a draft shield.

Specifications

Calibration: Internal or external with calibration mass

Weighing units: g, ct, oz, dwt, mg, grains, oz, ozt, dwt, custom

Power: 115/220 VAC power adapter and built-in rechargeable battery pack (battery function not available on models 10001-06, -07, -13)

Capacity	Readability	Repeatability	Linearity	Pan size	Catalog number	Price
Internal calibration						
210 g	0.001 g	±0.002 g	±0.002 g	5⅛" x 5⅛" (13 x 13 cm)	KB-10001-10	
410 g	0.001 g	±0.002 g	±0.002 g		KB-10001-11	
2200 g	0.01 g	±0.02 g	±0.02 g	7½" x 6¼" (19 x 16 cm)	KB-10001-12	
4200 g	0.01 g	±0.02 g	±0.02 g		KB-10001-13	
External calibration						
210 g	0.001 g	±0.002 g	±0.002 g	5⅛" x 5⅛" (13 x 13 cm)	KB-10001-02	
410 g	0.001 g	±0.002 g	±0.002 g		KB-10001-03	
2200 g	0.01 g	±0.02 g	±0.02 g	7½" x 6¼" (19 x 16 cm)	KB-10001-04	
4200 g	0.01 g	±0.02 g	±0.02 g		KB-10001-05	
5000 g	0.1 g	±0.2 g	±0.4 g		KB-10001-06	
15000 g	0.1 g	±0.2 g	±0.4 g		KB-10001-07	

Accessories

KB-11120-78 **Compact thermal printer**

KB-10000-47 **Kensington™ type security lock and cable**

KB-17101-52 **NIST-traceable calibration** with data for balances

Cole-Parmer® Symmetry® PA Analytical Balances

Discover Symmetry—affordable, advanced, accurate

- Three-door glass draft shield provides easy access inside the weighing chamber
- Oversized backlit LCD provides clear visibility of weighing results
- Sealed keypad, splashproof design, and removable stainless steel weighing pan offer safeguards in a messy lab environment
- Weighing modes include parts counting, percent weighing and checkweighing
- USB and RS-232 interfaces offer connection to a computer or printer for GLP/GMP-compliant output
- Digital filters compensate for vibration, drafts or temperature changes
- Selectable multi-language display and output
- Fast stabilization and response time

Symmetry®

What's included: AC power adapter and draft shield.

Specifications

Calibration: Internal or external with calibration mass

Weighing units: g, ct, oz, dwt, mg, grains, oz, ozt, dwt, custom

Power: 115/220 VAC power adapter

Capacity	Readability	Repeatability	Linearity	Pan size	Catalog number	Price
Internal calibration						
120 g	0.0001 g	±0.0002 g	±0.0002 g	3½" dia (9 cm)	KB-10001-08	
220 g	0.0001 g	±0.0002 g	±0.0002 g		KB-10001-09	
External calibration						
120 g	0.0001 g	±0.0002 g	±0.0002 g	3½" dia (9 cm)	KB-10001-00	
220 g	0.0001 g	±0.0002 g	±0.0002 g		KB-10001-01	

Accessories

KB-11120-78 **Compact thermal printer**

KB-10000-47 **Kensington™ type security lock and cable**

KB-17101-52 **NIST-traceable calibration** with data for balances

Cole-Parmer® Symmetry® LT Precision Toploading and LA Analytical Balances

Quality and precision at an affordable price

- Large, backlit LCD provides clear visibility of weighing results
- Get secure data connections via USB, RS-232, Ethernet, and Wi-Fi interfaces
- Easily adjust filter settings depending on your working environment
- Multiple working modes handle a variety of weighing functions
- Fast stabilization and response time
- Quickly diagnose weighing errors with autotest GLP function
- Industry-leading 5-year warranty

Easy to operate, these rugged balances feature a large, backlit LCD providing a clear presentation of the weighing results. Choose from internal calibration for quick and easy accuracy checks or external calibration with the use of a calibration weight.

To achieve the best possible weighing conditions, the balances feature a filter level setting that can be adjusted to a fast or slow mode depending on the working environment.

Working modes include weighing, parts counting, check weighing, dosing, percent weighing, density of solids, density of liquids, animal weighing, statistics, totalizing, and peak hold. Other features include quick access keys, balance taring, balance zeroing, auto switch-off, and backlight turn-off time.

Several built-in databases allow you to record users, products, weighings, and tares. Only users with appropriate access can adjust balance settings, export data, import data, and delete records. Use the simple external connections to a computer or printer for GLP/GMP-compliant output. The autotest GLP function provides an enhanced balance summary to aid in assessing operation and diagnosing reasons for occurrence of errors in weighing.

Specifications

Weighing units: g, mg, kg, ct, lb, oz, ozt, dwt, tlh, tls, tlt, tlc, mom, gr, N, ti, baht, tola, msg, u1, u2
Stability indicator: yes
Output: RS-232 (2), USB-A, USB-B, Ethernet, and Wi-Fi (internal cal only)
Power: 100/240 VAC, 50/60 Hz

Symmetry®

10102-23

10102-27

NTEP-approved models are available online.

Capacity	Readability	Repeatability	Linearity	Pan size	Internal calibration and Wi-Fi interface		External calibration	
					Catalog number	Price	Catalog number	Price
LT toploading balances								
360 g	0.001 g	±0.002 g	±0.002 g	5 1/16" x 5 1/16" (12.8 x 12.8 cm)	KB-10102-27†		KB-10102-37†	
600 g		±0.003 g	±0.003 g		KB-10102-28†		KB-10102-38†	
1200 g	0.01 g	±0.02 g	±0.02 g	7 11/16" x 7 11/16" (19.5 x 19.5 cm)	KB-10102-29		KB-10102-39	
2100 g		±0.02 g	±0.02 g		KB-10102-30		KB-10102-40	
4500 g		±0.02 g	±0.02 g		KB-10102-31		KB-10102-41	
6000 g		±0.03 g	±0.03 g		KB-10102-32		KB-10102-42	
LA analytical balances								
62 g	0.0001 g	±0.00003 g	±0.00006 g	3 3/16" (9 cm)	—	—	KB-10102-33‡	
82/220 g	0.00001/0.0001 g	±0.0001 g	±0.0002 g		KB-10102-23‡		—	—
160 g	0.0001 g	±0.0001 g	±0.0002 g	3 15/16" (10 cm)	KB-10102-24‡		KB-10102-34‡	
220 g					KB-10102-25‡		KB-10102-35‡	
310 g		±0.0002 g	±0.0003 g		KB-10102-26‡		KB-10102-36‡	

†Includes short open-air draft shield. ‡Includes tall enclosed glass draft shield with three doors.

KB-10100-83 **Cable,** RS-232 to USB
KB-10100-84 **Cable,** RS-232 to printer
KB-10100-85 **Printer**
KB-10100-86 **Printer paper.** Pack of 3
KB-10100-88 **Density determination kit** for models 10102-27, -28, -37, and -38
KB-10100-87 **Density determination kit** for analytical models
KB-10100-90 **Lock-down cable,** 36"L x 3/32" dia (91.4 x 0.3 cm)
KB-10100-93 **Draft shield** for models 10102-27, -28, -37, and -38
KB-01017-04 **Square weigh boats,** white polystyrene, 20 mL. Pack of 100
KB-17101-52 **NIST-traceable calibration** with data for balances

Cole-Parmer® Polystat® Cooling/Heating Circulating Baths

Excellent cooling across range of temperatures

- Two-speed pump with up to 21 L/min flow
- Maximize bench space with compact size
- Protect samples and bath with high-temperature and low-level cut offs

Standard Digital Controller Baths feature five programmable set points, adjustable high-temperature cutoff, user-settable Min/Max temperature limits, and an adjustable pump nozzle. **Advanced Digital Controller Baths** offer all the features of the Standard Digital models (except adjustable pump nozzle) plus five programmable set points, a two-stage (force/suction) pump for greater circulation capacity, and a USB port.

What's included: lid, 6-ft (1.8-m) power cord with plug, M16 x 1 pump connection and 8- and 12-mm hose barb fittings with clamps for external circulation.

Specifications

Wetted materials: stainless steel, polymers **Low-level cutoff:** yes

polystat® ISO9001:2008 CERTIFIED SUPPLIER

Bath capacity	Temperature range	Stability	Cooling capacity at 20°C	Pump type	Max pump pressure psi (mbar)	Max pump flow (L/min)	Working area (W x L x D)	Power (VAC, Hz)	Catalog number	Price
Standard digital controller baths										
6.5 L	–20 to 100°C	±0.05°C	250 W	Force	4.4 (310)	17	5 5/16" x 4 13/16" x 5 7/8" (13.5 x 12.2 x 15 cm)	115, 60	KB-12122-02	
								230, 50	KB-12122-04	
8.6 L	–28 to 100°C	±0.05°C	500 W	Force	4.4 (310)	17	6 13/16" x 7 3/16" x 5 7/8" (17.3 x 18.3 x 15 cm)	115, 60	KB-12122-32	
								230, 50	KB-12122-34	
8.6 L	–28 to 150°C	±0.05°C	500 W	Force	4.4 (310)	17	6 13/16" x 7 3/16" x 5 7/8" (17.3 x 18.3 x 15 cm)	115, 60	KB-12122-36	
								230, 50	KB-12122-38	
Advanced digital controller baths										
6.5 L	–20 to 100°C	±0.025°C	250 W	Force/ suction	11.7 (750)	21	5 5/16" x 4 13/16" x 5 7/8" (13.5 x 12.2 x 15 cm)	115, 60	KB-12122-12	
								230, 50	KB-12122-14	
6.5 L	–20 to 100°C	±0.025°C	250 W	Force/ suction	11.7 (750)	21	5 5/16" x 4 13/16" x 5 7/8" (13.5 x 12.2 x 15 cm)	115, 60	KB-12122-26	
								230, 50	KB-12122-28	
8.6 L	–28 to 200°C	±0.025°C	500 W	Force/ suction	11.7 (750)	21	6 13/16" x 7 3/16" x 5 7/8" (17.3 x 18.3 x 15 cm)	115, 60	KB-12122-42	
								230, 50	KB-12122-44	
8.6 L	–35 to 200°C	±0.025°C	800 W	Force/ suction	11.7 (750)	21	6 13/16" x 7 3/16" x 5 7/8" (17.3 x 18.3 x 15 cm)	115, 60†	KB-12122-56	
								230, 50†	KB-12122-58	

†Requires 20 amp current.

Cole-Parmer® StableTemp® Digital Water Baths

NEW

Get digital accuracy at an analog price

- NEW! Full-color TFT display is visible from across the lab
- Quickly recall five frequently used temperature settings
- Seamless SS tank with rounded corners for easy cleaning
- Feature high domed lid and recessed handles

StableTemp

ISO9001:2008 CERTIFIED SUPPLIER

Specifications

Temperature range: 5°C above ambient to 100°C

Temperature uniformity: ±0.2°C

Temperature stability: ±0.1°C

Bath capacity	Opening (L x W)	Working depth	120 VAC, 60 Hz		240 VAC, 50 Hz	
			Cat. no.	Price	Cat. no.	Price
2 L	3 7/8" x 4 5/16"	6"	KB-12105-84		KB-12105-85	
5 L	5" x 10 13/16"	6"	KB-12105-86		KB-12105-87	
10 L	10 5/8" x 11 5/8"	6"	KB-12105-88		KB-12105-89	
20 L	9 1/2" x 17"	6"	KB-12105-90		KB-12105-91	
28 L	9 1/2" x 17"	8"	KB-12105-92		KB-12105-93	

Bath Fluids

Get more out of your bath!

Use these bath fluids to maintain desired bath temperatures. Refer to the table below to select the appropriate bath fluid for your application. For operator safety, set the overtemperature cutoff of your bath/circulator below the flash point of the bath fluid you use.

Fluid type	Silicone 210	Dynalene® HK-50	Silicone 200 20 (hot)	Silicone 710 (hot)
Catalog number	KB-01294-60	KB-01297-00	KB-01294-40	KB-01294-00
Specific gravity	0.98	0.85	0.95	1.11
Temperature range	–65 to 280°C	–50 to 58°C	10 to 149°C	150 to 250°C
Freezing point	—	–60°C	–84°C	–22°C
Flash point	288°C	65°C	246°C	302°C
Viscosity	98 cp at 26°C	2.35 cp at 25°C	18.98 cp at 25°C	33 cp at 99°C
Quantity	1 gal. (3.8 L)	1 gal. (3.8 L)	1 gal. (3.8 L)	1 gal. (3.8 L)
Price				

Note: Do not use automotive antifreeze with circulating baths—additives can be harmful to the circulating pump. Silicone fluids are not compatible with silicone tubing.

WHIRL-PAK® Sterile Sampling Bags, LDPE

Keep samples safe—easy-seal bags hold solids and liquids

- Quick and easy sealing—flip bag around wire/tape and bend to seal
- No more poking—puncture-proof tabs keep wire intact even after extensive use

06499-10

Sampling Bags are available with or without a white labeling area.

"Speci-Sponge" Bag is designed to sample surfaces and equipment for *Listeria*, *Salmonella*, and other food-borne pathogens; contains a small sponge that is free of bactericides and noninhibitory; with white labeling area.

Sodium Thiosulfate Bags are EPA-compliant for potable water collection; contain a nontoxic, nonnutritive 10-mg active ingredient tablet of sodium thiosulfate to neutralize the chlorine at the point of collection; with white labeling area.

Standup bags stay upright

Rack

STERILE

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity oz (mL)	Size (W x L)	Thickness (mil)	Catalog number	Qty/pk	Price/pk
Sampling bags without white labeling area					
4 (118)	3" x 7¼" (7.6 x 18.4 cm)	2.25	KB-06499-10	500	
18 (532)	4½" x 9" (11.4 x 22.9 cm)	2.5	KB-06499-20	500	
24 (710)	6" x 9" (15.2 x 22.9 cm)	3.0	KB-06499-30	500	
36 (1065)	5" x 15" (12.7 x 38.1 cm)	3.0	KB-06499-40	500	
42 (1242)	6" x 15" (15.2 x 38.1 cm)	3.0	KB-06499-50	500	
69 (2041)	7½" x 15" (19.1 x 38.1 cm)	3.0	KB-06499-54	500	
Standup sampling bags with white labeling area					
4 (118)	3" x 7¼" (7.6 x 18.4 cm)	2.5	KB-06499-16	500	
18 (532)	4½" x 9" (11.4 x 22.9 cm)	3.0	KB-06499-21	500	
24 (710)	6" x 9" (15.2 x 22.9 cm)	3.0	KB-06499-31	500	
36 (1065)	5" x 15" (12.7 x 38.1 cm)	4.0	KB-06499-33	250	
69 (2041)	7½" x 15" (19.1 x 38.1 cm)	4.0	KB-06499-35	250	
Sampling bags with white labeling area					
2 (58)	3" x 5" (7.6 x 12.7 cm)	2.5	KB-06499-60	500	
4 (118)	3" x 7¼" (7.6 x 18.4 cm)	2.25	KB-06499-70	500	
7 (207)	3¾" x 7" (9.5 x 17.8 cm)	2.5	KB-06499-72	500	
13 (384)	5¼" x 7½" (13.3 x 19.1 cm)	2.5	KB-06499-74	500	
18 (532)	4½" x 9" (11.4 x 22.9 cm)	2.5	KB-06499-80	500	
24 (710)	6" x 9" (15.2 x 22.9 cm)	3.0	KB-06499-85	500	
69 (2041)	7½" x 15" (19.1 x 38.1 cm)	3.0	KB-06499-89	500	
92 (2721)	10" x 15" (25.4 x 38.1 cm)	4.0	KB-06499-94	250	
123 (3637)	10" x 20" (25.4 x 50.8 cm)	4.0	KB-06499-98	250	
184 (5441)	15" x 20" (38.1 x 50.8 cm)	4.0	KB-06499-99	100	
"Speci-Sponge" bag for surface sampling with sponge					
18 (532)	4½" x 9" (11.4 x 22.9 cm)	2.5	KB-06499-13	100	
Sodium thiosulfate bags for water sampling with tablet					
3⅜ (100)	3" x 7¼" (7.6 x 18.4 cm)	2.5	KB-06499-90	100	
10⅛ (300)	4½" x 9" (11.4 x 22.9 cm)	2.5	KB-06499-95	100	

KB-66203-10 **Carrying rack** for 2- and 4-oz bags. Double-grid design keeps bags upright and has 15 compartments. Vinyl coated, autoclavable

KB-66203-00 **Carrying rack** for 18-oz bags. Double-grid design keeps bags upright. Rack has 20 compartments. Vinyl coated, autoclavable

⚠ **WARNING:** This product can expose you to chemicals including aniline, which is known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

Cole-Parmer® elements™ Graduated Beakers, PP

Molded-in graduations

- Graduated in mL and oz for easy conversion
- Stacking ribs provide easy separation so beakers will not stick together
- Accurate to ±2.5%
- Withstands temperatures from 5 to 248°F (–15 to 150°C)

elements™ Cole-Parmer®

Buy More...Save More!
15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

Capacity mL (oz)	Graduations (mL)	Cat. no.	Qty/pk	Price/pk
15 (½)	5	KB-06200-02	100	
30 (1)	5	KB-06200-04		
50 (1¾)	5	KB-06200-06		
100 (3½)	5	KB-06200-08		
150 (5)	5	KB-06200-10		
250 (8)	10	KB-06200-12	50	
400 (13)	25	KB-06200-14		
600 (20)	25	KB-06200-16	25	

Disposable Griffin Low-Form Beakers, PP

Molded graduations

- Graduated in mL and oz
- Stacking rib for easier separation
- Autoclavable

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity mL (oz)	Graduations (mL)	Catalog number	Qty/pk	Price/pk
15 (0.5)	5	KB-06006-12	100	
15 (0.5)	5	KB-06006-15	1000	
30 (1)	5	KB-06006-22	100	
30 (1)	5	KB-06006-25	1000	
50 (1.7)	5	KB-06006-32	100	
50 (1.7)	5	KB-06006-35	1000	
100 (3.5)	5	KB-06006-42	100	
100 (3.5)	5	KB-06006-45	1000	
150 (5)	5	KB-06006-52	100	
150 (5)	5	KB-06006-55	1000	
250 (8)	10	KB-06006-63	50	
250 (8)	10	KB-06006-65	500	
400 (13)	25	KB-06006-72	50	
400 (13)	25	KB-06006-75	500	
600 (20)	25	KB-06006-83	25	
600 (20)	25	KB-06006-85	500	

Cole-Parmer® Tri-Corner Beakers, PP

Easy pouring from three sides

- Easily mix on stirrer—flat bottom keeps stir bars centered
- Accurate to ±5%; molded graduations
- Withstand temperatures to 250°F (121°C)
- Autoclavable

Cole-Parmer®

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity mL (oz)	Graduations (mL)	Cat. no.	Qty/pk	Price/pk
50 (1.5)	10	KB-06020-01	100	
100 (3.5)	10	KB-06020-03		
250 (8)	20	KB-06020-05		
400 (13)	40	KB-06020-07	100	
800 (26)	50	KB-06020-09		
1000 (32)	50	KB-06020-11		
Five of each above	—	KB-06010-07	30	

Cole-Parmer® elements™ Graduated Beakers with Handle, PP

Molded-in handle for easy transport and pouring of contents

- Molded-in graduations will not wear off
- Withstands temperatures from 5 to 248°F (–15 to 150°C)

elements™ Cole-Parmer®

Buy More...Save More!
15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

Capacity mL (oz)	Graduations (mL)	Cat. no.	Qty/pk	Price/pk
250 (8)	50	KB-06200-18	5	
500 (16)	50	KB-06200-19	5	
1000 (32)	50	KB-06200-20	5	
2000 (64)	100	KB-06200-21	4	
3000 (96)	50	KB-06200-22	5	
5000 (160)	100	KB-06200-23	5	

Cole-Parmer® Broad-Spout Beakers, PTFE

Stand up to the harshest chemicals

- Heatable beakers can be used on hot plates to 518°F (270°C)
- Autoclavable

Cole-Parmer®

Heatable beaker 06300-02 has a PTFE carbon base.

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity mL (oz)	Beaker			Optional cover		
	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
Heatable beakers with PTFE-carbon base, for use on hot plates						
100 (3)	KB-06300-02	1		KB-06300-87	1	
250 (8)	KB-06300-04	1		KB-06300-91	1	
400 (13)	KB-06300-06	1		KB-06300-93	1	
Beakers						
1 (0.03)	KB-06300-62	2		KB-06300-79	2	
5 (1.17)	KB-06300-64	2		KB-06300-81	2	
10 (0.3)	KB-06300-66	2		KB-06300-81	2	
25 (0.8)	KB-06300-68	2		KB-06300-83	2	
50 (1.6)	KB-06300-74	1		KB-06300-85	1	
100 (3)	KB-06300-76	1		KB-06300-87	1	
150 (5)	KB-06300-78	1		KB-06300-89	1	
250 (8)	KB-06300-82	1		KB-06300-91	1	
400 (13)	KB-06300-84	1		KB-06300-93	1	
500 (16)	KB-06300-86	1		KB-06300-93	1	
600 (20)	KB-06300-88	1		KB-06300-95	1	
1000 (32)	KB-06300-92	1		KB-06300-95	1	
2000 (64)	KB-06300-94	1		KB-06300-97	1	
5000 (170)	KB-06300-96	1		KB-06300-99	1	

Cole-Parmer® elements™ Plus Class A, Type I Glassware

Affordable borosilicate glass fits every budget

NEW

- Withstand temperatures from –58 to 1022°F (–50 to 550°C)
- Durable white enamel graduations and marking areas

elements™ Cole-Parmer®

Griffin Low-Form Beakers

- Double scale for easy reading up and down
- Meet ASTM E960 specifications

Buy More...Save More!
15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Capacity (mL)	Graduation range (mL)	Graduation interval (mL)	Catalog number	Qty/pk	Price/pk
10	—	—	KB-34503-15	12	
25	5 to 20	5	KB-34503-16	12	
50	10 to 40	10	KB-34503-17	12	
100	20 to 80	20	KB-34503-18	12	
150	20 to 140	20	KB-34503-19	12	
250	25 to 200	50	KB-34503-20	12	
400	50 to 350	25	KB-34503-32	8	
600	50 to 500	50	KB-34503-33	8	
1000	100 to 900	50	KB-34503-34	6	
2000	200 to 1800	200	KB-34503-35	2	
3000	250 to 2500	250	KB-34503-36	1	
5000	500 to 4500	500	KB-34503-37	1	

Media Bottles

- Linerless, blue polypropylene cap and pouring ring
- Meet ASTM E438 requirements

Buy More...Save More!
15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Capacity (mL)	Graduation range (mL)	Graduation interval (mL)	Catalog number	Qty/cs	Price/cs
100	20 to 80	20	KB-34503-38	10	
250	50 to 200	50	KB-34503-39	10	
500	100 to 400	100	KB-34503-40	10	
1000	100 to 900	100	KB-34503-41	10	
2000	200 to 1800	200	KB-34503-43	1	

Erlenmeyer Flasks

- Narrow-mouth opening with beaded heavy-duty rim
- Meet ASTM E1404, DIN 12380 specifications

Buy More...Save More!
15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Capacity (mL)	Graduation range (mL)	Graduation interval (mL)	Catalog number	Qty/pk	Price/pk
100	20 to 100	20	KB-34503-53	12	
250	50 to 250	50	KB-34503-55	8	
500	100 to 500	100	KB-34503-57	8	
1000	100 to 1000	100	KB-34503-59	6	
2000	250 to 2000	250	KB-34503-61	1	
3000	500 to 3000	500	KB-34503-63	1	

Large-Capacity Beakers, PP

No need to mix multiple smaller volumes

- Easily mix up to 10 liters in one vessel
- Easy-to-read black graduations for approximate volume
- Save space with tapered design for easy stacking
- Withstand temperatures to 250°F (121°C); autoclavable

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity mL (oz)	Graduations (mL)	Catalog number	Qty/pk	Price/pk
Polypropylene beakers, no handle				
5000 (160)	500	KB-61000-51	2	
10,000 (320)	1000	KB-61000-53	1	
Polypropylene beakers, with handle				
5000 (160)	500	KB-61000-55	2	
10,000 (320)	1000	KB-61000-57	1	

Graduated Beakers with Easy-Grip Handles

Sturdy handle

- Always know your volume—molded-in graduations never rub off
- Choose the right material for your application—available in PMP, HDPE, PP, PC, and PFA

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity mL (oz)	Graduations (mL)	Qty/pk	Catalog number	Price/pk
Thermo Scientific™ Nalgene™ polymethylpentene (PMP) beakers				
1000 (32)	5	1	KB-06004-97	
3000 (96)	10		KB-06004-99	
Thermo Scientific Nalgene high-density polyethylene (HDPE) beakers				
1000 (32)	100	1	KB-06005-10	
3000 (96)	200		KB-06005-20	
Polypropylene (PP) beakers				
50 (1.5)	10	1	KB-06100-97	
100 (3.5)	20		KB-06100-99	
250 (8)	5		KB-06008-35	
500 (16)	10		KB-06008-40	
1000 (32)	10	1	KB-06008-50	
2000 (64)	20		KB-06008-60	
3000 (96)	50		KB-06008-70	
5000 (160)	100		KB-06008-80	
Polycarbonate (PC) beakers				
470 (16)	25	1	KB-06004-80	
950 (32)	50		KB-06004-85	
1900 (64)	250		KB-06004-90	
3800 (128)	500		KB-06004-95	
Thermo Scientific Nalgene PFA beakers				
1000 (32)	50	1	KB-06006-00	
3000 (96)	125		KB-06006-05	

PYREX® Brand 1003 Heavy-Duty Griffin Beakers, Glass

Get the best strength even under harsh conditions

- Measure initial quantity and how much is used—double metric scale on 250- to 4000-mL sizes
- Know your solution—extra-large marking spot for easier identification
- Reference: ASTM E-960

Buy More...Save More!
15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

Capacity mL (oz)	Graduation range (mL)	Graduation interval (mL)	Catalog number	Qty	Price
150 (5)	20 to 140	20	KB-34512-06	12/pk	
150 (5)	20 to 140	20	KB-34512-26	48/cs	
250 (8)	25 to 200	25	KB-34512-07	12/pk	
250 (8)	25 to 200	25	KB-34512-27	48/cs	
400 (13)	25 to 325	25	KB-34512-08	12/pk	
400 (13)	25 to 325	25	KB-34512-28	48/cs	
600 (20)	50 to 500	50	KB-34512-09	6/pk	
600 (20)	50 to 500	50	KB-34512-29	36/cs	
1000 (32)	50 to 1000	50	KB-34512-11	6/pk	
1000 (32)	50 to 1000	50	KB-34512-31	24/cs	
2000 (64)	200 to 1800	200	KB-34512-13	4/pk	
2000 (64)	200 to 1800	200	KB-34512-33	8/pk	
4000 (128)	500 to 3500	250	KB-34512-15	1/pk	
4000 (128)	500 to 3500	250	KB-34512-35	4/pk	

PYREX® Brand 1060 Berzelius Beakers, Glass

Save storage space

- Beakers are taller instead of wider
- Easy-read graduations for approximate measuring
- Easy-pour spout to facilitate sampling
- Reference: ASTM E-960

Buy More...Save More!
15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Capacity mL (oz)	Graduation interval (mL)	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/cs	Price/cs
100 (3)	10	KB-34513-01	12		KB-34513-21	48	
200 (7)	25	KB-34513-02	12		KB-34513-22	48	
300 (10)	25	KB-34513-03	12		KB-34513-23	48	
400 (13)	25	KB-34513-04	6		KB-34513-24	36	
500 (16)	50	KB-34513-05	6		KB-34513-25	30	
600 (20)	50	KB-34513-06	6		KB-34513-26	24	
1000 (32)	50	KB-34513-10	6		KB-34513-30	18	

Cole-Parmer® Class A Griffin Low-Form Beakers, Glass

Easy readings and exceptional durability

- Double-scale graduations for easy measuring while pouring in or out
- Meet ASTM E960 specifications for Class A borosilicate glass beakers
- Stand up to temperatures of 445°F (230°C) for long-term, or 752°F (400°C) for short-term
- Autoclavable

Cole-Parmer®

Buy More...Save More!
15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

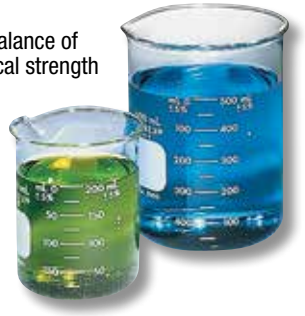
Capacity mL (oz)	Graduation interval (mL)	Catalog number	Qty/pk	Price/pk
10 (⅓)	—	KB-34503-42†	12	
25 (⅞)	5	KB-34503-44	12	
50 (1¾)	10	KB-34503-46	12	
100 (3)	10	KB-34503-48	12	
150 (5)	20	KB-34503-50	12	
250 (8)	25	KB-34503-52	12	
400 (13)	25	KB-34503-54	12	
600 (20)	50	KB-34503-56	6	
1000 (32)	50	KB-34503-58	6	
2000 (64)	100	KB-34503-60	4	
3000 (96)	125	KB-34503-62	1	
5000 (160)	250	KB-34503-64	1	

†The 10-mL beaker does not have graduations.

PYREX® Brand 1000 Griffin Low-Form Beakers, Glass

Stand up to thermal shock

- Uniform wall thickness offers optimal balance of thermal shock resistance and mechanical strength
- Know how much is left and how much is gone—double graduation scale indicates approximate content (on 250- to 400-mL sizes only)
- No mystery liquids—extra-large marking spot for easy identification
- Reference: ASTM E-960



Buy More...Save More!
15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

Capacity mL (oz)	Graduation range (mL)	Graduation interval (mL)	Catalog number	Qty/pk	Price/pk
10 (⅓)	—	—	KB-34502-01	12	
20 (⅔)	5 to 15	5	KB-34502-02		
30 (1)	5 to 25	10	KB-34502-03		
50 (1¾)	10 to 40	10	KB-34502-04		
100 (3)	20 to 80	10	KB-34502-05	12	
150 (5)	20 to 140	10	KB-34502-06		
250 (8)	25 to 200	25	KB-34502-07		
400 (13)	25 to 325	25	KB-34502-08		
600 (20)	50 to 500	50	KB-34502-09	6	
800 (27)	50 to 750	50	KB-34502-10	6	
1000 (32)	50 to 1000	50	KB-34502-11	6	
2000 (64)	200 to 2000	100	KB-34502-13	4	
3000 (96)	250 to 2500	125	KB-34502-14	1	
4000 (128)	500 to 3500	250	KB-34502-15	1	
10 (⅓)	—	—	KB-34502-21	48	
20 (⅔)	5 to 15	5	KB-34502-22		
30 (1)	5 to 25	10	KB-34502-23		
50 (1¾)	10 to 40	10	KB-34502-24		
100 (3)	20 to 80	10	KB-34502-25	48	
150 (5)	20 to 140	10	KB-34502-26		
250 (8)	25 to 200	25	KB-34502-27		
400 (13)	25 to 325	25	KB-34502-28		
600 (20)	50 to 500	50	KB-34502-29	36	
800 (27)	50 to 750	50	KB-34502-30	24	
1000 (32)	50 to 1000	50	KB-34502-31	24	
2000 (64)	200 to 2000	100	KB-34502-33	8	
3000 (96)	250 to 2500	125	KB-34502-34	6	
4000 (128)	500 to 3500	250	KB-34502-35	6	
Starter set contains one each of 50 mL, 100 mL, 250 mL, 600 mL, 1000 mL			KB-34502-90	5	

Cole-Parmer® elements™ Griffin Low-Form Graduated Beakers, Glass

Suitable for all lab procedures

- Easy-read graduations and marking area
- Withstands wide temperature range –50 to 550°C
- Graduated tolerances from ±0.02 to ±0.05 depending on size
- Autoclavable

Borosilicate 3.3 glass beakers with pour spout provide excellent general use at an economical price.

elements™ Cole-Parmer®

Buy More...Save More!
15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

Capacity mL (oz)	Graduation range (mL)	Graduation interval (mL)	Catalog number	Qty/pk	Price/pk
10 (⅓)	—	10	KB-34502-20	12	
20 (⅔)	5 to 20	5	KB-34502-36		
25 (⅞)	5 to 25	5	KB-34502-37		
30 (1)	10 to 30	5	KB-34502-38		
50 (1¾)	10 to 50	10	KB-34502-39		
100 (3)	20 to 100	10	KB-34502-40	12	
150 (5)	25 to 150	12.5	KB-34502-41		
200 (6)	50 to 200	25	KB-34502-42		
250 (8)	50 to 250	25	KB-34502-43		
300 (10)	50 to 300	25	KB-34502-44	8	
400 (13)	100 to 400	50	KB-34502-45		
500 (16)	100 to 500	50	KB-34502-46		
600 (20)	100 to 600	50	KB-34502-47		
800 (27)	200 to 800	100	KB-34502-48	6	
1000 (32)	200 to 1000	100	KB-34502-49		
1500 (51)	300 to 1500	100	KB-34502-50	2	
2000 (64)	400 to 2000	200	KB-34502-51		
3000 (96)	500 to 2500	250	KB-34502-52	1	
4000 (128)	500 to 3500	250	KB-34502-53		
5000 (160)	500 to 4500	500	KB-34502-54		

Cole-Parmer® Beakers and Covers, 304 SS (medium gauge)

Recessed covers for easy storage

Cole-Parmer®

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

NSF

Capacity L (qt)	Qty/ pk	Beakers		Optional covers	
		Catalog number	Price/pk	Catalog number	Price/pk
1.2 (1¼)	1	KB-07206-10		KB-07207-10	
1.9 (2)	1	KB-07206-20		KB-07207-20	
3.1 (3¼)	1	KB-07206-30		KB-07207-30	
4.5 (4¾)	1	KB-07206-40		KB-07207-40	
5.8 (6⅛)	1	KB-07206-60		KB-07207-60	
7.6 (8)	1	KB-07206-80		KB-07207-80	
11.4 (12)	1	KB-07206-90		KB-07207-90	

Cole-Parmer® Covered Containers, 304 SS (medium gauge)

No more contamination of samples

- Keep dirt and other contaminants out with included lid
- Non-corrosive stainless steel
- Easy to clean
- Withstand temperatures to 650°F (182°C)

Cole-Parmer®

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

NSF

Capacity, L (qt)	Catalog number	Qty/pk	Price/pk
0.3 (5/16)	KB-07250-00		
1 (1 1/16)	KB-07251-00	1	
1.5 (1 9/16)	KB-07252-00		
2.6 (2¾)	KB-07253-00		
4 (4¼)	KB-07254-00	1	
7 (7⅜)	KB-07258-00		

Cole-Parmer® Griffin Low Form Beakers, SS (medium gauge)

Get durable, economical mixing capabilities

- Sturdy vessels for general stirring or measuring of solutions

Cole-Parmer®

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity, mL (oz)	Catalog number	Qty/pk	Price/pk
125 (4.2)	KB-07205-30	1	
250 (8.5)	KB-07205-40	1	
600 (20.3)	KB-07205-50	1	
1200 (40.6)	KB-07205-60	1	
2000 (67.6)	KB-07205-70	1	
3000 (101.4)	KB-07205-80	1	
4000 (135.3)	KB-07205-90	1	

Cole-Parmer® Graduated Pouring Beakers, SS (medium gauge)

Easily measure and pour samples

- Measure volumes easily with internal graduation markers
- Great for higher temperatures—withstand temperatures up to 650°F (182° C)

Cole-Parmer®

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

NSF

Capacity, mL (oz)	Graduations, mL (oz)	Catalog number	Qty/pk	Price/pk
500 (16)	50 (2)	KB-07220-00	1	
1000 (32)	100 (2)	KB-07222-00	1	
2000 (64)	100 (4)	KB-07224-00	1	
5000 (160)	200 (4)	KB-07226-00	1	

Cole-Parmer® Pouring Beakers, 304 SS (medium gauge)

No more struggling to pour

- Attached handle lets you grip beaker easily

Cole-Parmer®

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

NSF

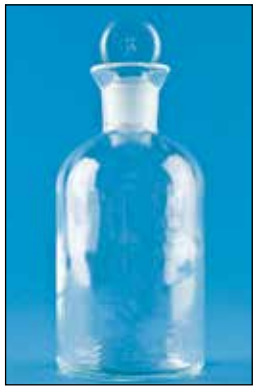
Capacity, L (qt)	Catalog number	Qty/pk	Price/pk
2 (1.9)	KB-07208-20		
3 (2.8)	KB-07208-30	1	
3.7 (4)	KB-07208-50		

Environmental Express® 300-mL Glass BOD Bottle with Stopper

Improved shoulder design removes entrapped air

- Flared mouth design prevents air from entering sample during incubation
- Displace excess sample with conical extension on stopper
- Conforms to ASTM E438, Type I, Class B, borosilicate glass
- Unnumbered; with glass pennyhead stopper

These bottles are designed for sampling and for incubation of aqueous samples for biochemical oxygen demand (BOD) analysis for reference Method 5210-B: 5-Day BOD Test (*Standard Methods for Examination of Water and Wastewater*).



ENVIRONMENTAL EXPRESS®

Capacity	Stopper type	Catalog number	Qty/cs	Price/cs
300 mL	Glass pennyhead	KB-53200-19	24	

Environmental Express® Disposable BOD Bottles

Reduce contamination and increase test accuracy

- No precleaning required!
- Laboratory tested and US EPA approved
- Packed in plastic-lined boxes to eliminate dust and residue

These PET bottles offer a specially formulated carbon coating that prevents oxygen from diffusing into or out of your sample, unlike ordinary plastic bottles. The unique amorphous carbon inner wall is just 1000 angstroms thick, but it provides a superior barrier resulting in uniform blanks, precise standard recoveries, and quality test data. Accept glass or acrylic stoppers.

ENVIRONMENTAL EXPRESS®

Capacity	Numbered	Catalog number	Qty/pk	Price/pk
300 mL	Individually	KB-53200-02	100	

KB-53200-12 **BOD bottle stopper,** acrylic robotic-style. Pack of 25
KB-53200-14 **BOD overcap** prevents evaporation. Pack of 50

Wheaton BOD Bottles with Stopper

Easily identify samples

- Clear glass BOD bottles come with glass stoppers and a white write-on marking space

53200-18

Capacity mL (oz)	Stopper type	Number sequence	Catalog number	Qty/cs	Price/cs
60 (2)	Glass pennyhead	Unnumbered	KB-53200-18	36	
300 (10)	Glass robotic	Unnumbered	KB-03660-15	24	
300 (10)	Glass robotic	1–24	KB-03660-16	24	
		25–48	KB-03660-17		
		49–72	KB-03660-18		
		73–96	KB-03660-19		

BOD Bottle Transfer and Storage Racks

Won't corrode

- Plastic coated for added durability
- Safely transport bottles with ease
- Save space by stacking racks

53200-22

Description	Capacity	Dimensions (W x H x D)	Catalog number	Price
BOD bottle transfer racks	20 x 60-mL bottles	13" x 6" x 10"	KB-53200-21	
	12 x 300-mL bottles	13" x 8" x 10"	KB-53200-22	
BOD bottle storage rack, autoclavable	12 x 300-mL bottles	12½" x 7¼" x 9¼"	KB-53200-23	

BOD Accessories

Acrylic Robotic-Style Bottle Stopper fits standard 60- and 300-mL glass BOD bottles, and disposable BOD bottles above.

BOD Overcap is required by Standard Methods to prevent sample evaporation. Designed for disposable bottles above, the polyethylene overcap fits snugly against the rim and shoulder of the bottle.

A Bug's-Eye-View of the BOD Test helps remove the mystery from BOD testing and provides a better understanding of Standard Methods 5210B. Troubleshooting guide focuses on common problems, suggests causes, and recommends potential corrective actions. Includes 54 pages and supplementary compact disk.

Description	Catalog number	Price
Acrylic bottle stopper, robotic style	KB-53200-12	/pk of 25
BOD overcap	KB-53200-14	/pk of 50
A Bug's-Eye-View of the BOD Test	KB-53200-28	

Cole-Parmer® Wide-Mouth Bottles, LDPE, HDPE, PP

Wide-mouth opening provides easier filling and sampling

- Offered in pack quantities or bulk pack quantities to meet your specific requirements
- Reliable and sturdy
- Choose from three materials; all include a leakproof PP closure

HDPE Bottles are manufactured with FDA-compliant resin for noncontaminating storage of chemicals and food-grade products.

LDPE Bottles are translucent and ideal for food and general-use laboratory applications.

PP Bottles are rigid and offer superior chemical resistance; perfect for storage and sampling of liquids and solids. **Autoclavable.**

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Cole-Parmer®

Capacity mL (oz)	Cap size	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ cs	Price/ cs
HDPE							
60 (2)	22 mm	KB-06045-18	12		KB-06045-23	72	
125 (4)	28 mm	KB-06045-24	12		KB-06045-25	72	
250 (8)	28 mm	KB-06045-26	12		KB-06045-27	72	
500 (16)	28 mm	KB-06045-28	12		KB-06045-29	48	
1000 (32)	28 mm	KB-06045-44	6		KB-06045-31	24	
2000 (64)	45 mm	KB-06045-46	1		KB-06045-33	6	
LDPE							
60 (2)	22 mm	KB-06045-02	12		—	—	—
125 (4)	28 mm	KB-06045-04	12		KB-06045-05	72	
250 (8)	28 mm	KB-06045-06	12		KB-06045-07	72	
500 (16)	28 mm	KB-06045-08	12		—	—	—
1000 (32)	28 mm	KB-06045-14	6		—	—	—
PP							
30 (1)	22 mm	KB-06045-48	12		KB-06045-41	72	
60 (2)	22 mm	KB-06045-56	12		—	—	—
125 (4)	28 mm	KB-06045-58	12		—	—	—
250 (8)	28 mm	KB-06045-62	12		—	—	—
500 (16)	28 mm	KB-06045-66	12		—	—	—
1000 (32)	28 mm	KB-06045-68	6		KB-06045-51	24	
2000 (64)	45 mm	KB-06045-74	1		KB-06045-53	6	

Thermo Scientific™ Nalgene™ Wide-Mouth Bottles, LDPE

Get better sample visibility

- Translucent material provides flexibility and impact resistance
- Ideal for shipping liquids—include leakproof polypropylene (PP) screw caps

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20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity mL (oz)	Cap size	Catalog number	Qty/ pk	Price/ pk
30 (1)	28 mm	KB-06043-10	12	
60 (2)	28 mm	KB-06043-20		
125 (4)	38 mm	KB-06043-30		
250 (8)	43 mm	KB-06043-40	12	
500 (16)	53 mm	KB-06043-50		
1000 (32)	63 mm	KB-06043-60	6	

Thermo Scientific™ Nalgene™ Economy Narrow-Mouth Bottles, HDPE

Stand up to your demands

- Sturdy, leakproof design
- Lightweight design for minimal additional weight

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20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity mL (oz)	Cap size	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ cs	Price/ cs
30 (1)	20 mm	KB-06035-07	12		KB-06035-09	72	
60 (2)	20 mm	KB-06035-11	12		KB-06035-13	72	
125 (4)	24 mm	KB-06035-15	12		KB-06035-17	72	
250 (8)	24 mm	KB-06035-19	12		KB-06035-21	72	
500 (16)	28 mm	KB-06035-23	6		KB-06035-25	48	
1000 (32)	38-430	KB-06035-27	6		KB-06035-29	24	

Thermo Scientific™ Nalgene™ Wide-Mouth Bottles, HDPE

Safely transport samples—leakproof lids for worry-free shipping

- Wide-mouth design for easier filling with dry or liquid samples
- Easy viewing of samples with translucent HDPE design
- Leakproof lids are made of polypropylene

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20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity mL (oz)	Cap size	Qty/ pk	Catalog number	Price/pk
30 (1)	28 mm	12	KB-06047-10	
60 (2)	28 mm		KB-06047-20	
125 (4)	38 mm		KB-06047-30	
250 (8)	43 mm	12	KB-06047-40	
500 (16)	53 mm		KB-06047-50	
1000 (32)	63 mm	6	KB-06047-60	
1500 (50)	63 mm		KB-06047-65	

Cole-Parmer® Lab Markers

Fine-point fiber tip writes on cold, wet surfaces. Quick-drying ink permanently marks plastic; washes off glass, metal, or porcelain.

Color	Qty/pk	Catalog number	Price
Black	10	KB-09964-00	
Blue		KB-09964-10	
Green		KB-09964-15	
Red		KB-09964-20	

Find even more online! Go to ColeParmer.com to search more than 100,000 products.

Graduated Sample Containers, PP

Graduated for easier sampling

- Durable design—translucent, unbreakable, and chemical resistant
- Sterile containers are individually wrapped

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20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

STERILE

Capacity mL (oz)	Description	Catalog number	Qty/pk	Price/pk
118 (4)	Sterile, no tab	KB-06049-40	100	
118 (4)	Nonsterile with white tab	KB-06049-50	500	

Sample Bottles, HDPE

Store samples without breaking your budget

- Provide good chemical resistance for a wide range of uses
- Bottles are made of HDPE; included cap is made of polypropylene and lined with polyethylene foam

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20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity mL (oz)	Qty/pk	Catalog number	Price/pk
180 (6)	300	KB-06043-01	
250 (8)	329	KB-06049-01	
500 (16)	198	KB-06050-05	

Thermo Scientific™ Nalgene™ Economy Wide-Mouth Bottles, HDPE

Rugged design fits all your needs

- Leakproof, PP enclosure

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15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity mL (oz)	Cap size	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/cs	Price/cs
30 (1)	28 mm	KB-06035-31			KB-06035-33		
60 (2)	28 mm	KB-06035-35	12		KB-06035-37	72	
125 (4)	38 mm	KB-06035-39			KB-06035-41		
250 (8)	43 mm	KB-06035-43	12		KB-06035-45	72	
500 (16)	53 mm	KB-06035-47	6		KB-06035-49	48	
1000 (32)	63 mm	KB-06035-51	6		KB-06035-53	24	

Thermo Scientific™ Nalgene™ Heavy-Duty Bottles, PP

Withstand repeated full vacuum applications

- Use under repeated full vacuum for 24 hours at 68°F (20°C)
- PP closure with thermoplastic elastomer (TPE) gasket
- Autoclavable

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10% off on 6 to 29 packs or cases

Capacity, mL (oz)	Cap size	Catalog number	Qty/pk	Price/pk
250 (8)	53B	KB-06257-05	6	
1000 (32)		KB-06257-10	6	
2000 (64)		KB-06257-20	2	
4000 (128)	83B	KB-06257-00	1	
5000 (160)		KB-06257-30		

PYREX® Brand 1395 Media Bottles

Permanent white graduations won't wear off

- Use for mixing or storing of your solutions—full capacity indicated by bead line on 100-mL to 2-L sizes
- Linerless, autoclavable polypropylene screw cap included on each bottle
- Color code your samples with optional color-coded PP caps

Caution: Bottles larger than 2 liters should not be used under vacuum pressure, as breakage may occur. Do not tighten caps immediately after autoclaving.

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15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Capacity mL (oz)	Graduation range (mL)	Thread size	Neck ID	Catalog number	Qty/cs	Price/cs
25 (¾)	10 to 25	GL25	14.5 mm	KB-34514-20	10	
50 (1¾)	20 to 50	GL32	16.5 mm	KB-34514-21	10	
100 (3)	40 to 80	GL45	29 mm	KB-34514-22	10	
250 (8)	50 to 200	GL45	29 mm	KB-34514-23	10	
500 (16)	100 to 400	GL45	29 mm	KB-34514-24	10	
1000 (32)	100 to 900	GL45	29 mm	KB-34514-25	10	
2000 (64)	400 to 1800	GL45	29 mm	KB-34514-26	4	
5000 (160)	500 to 4500	GL45	29 mm	KB-34514-28	1	
10,000 (320)	2000 to 9000	GL45	29 mm	KB-34514-30	1	

Accessories

KB-34514-50 **Polypropylene cap,** orange, GL45. Cs of 20
KB-34514-53 **Polypropylene cap,** green, GL45. Cs of 20
KB-34514-54 **Polypropylene cap,** gray membrane, GL45. Cs of 10
KB-34514-55 **Polypropylene cap,** red high-temp. GL45. Cs of 10
KB-34514-60 **Pouring ring,** clear, low temperature. Cs of 50
KB-34514-65 **Pouring ring,** red, high temperature. Cs of 50

Cole-Parmer® Precleaned EPA Sample Containers

No contaminants—precleaned and ready to use

- Include certificate of conformance to EPA specifications
- Identify samples easier with included labels (unattached)

A-D. Glass Bottles, Jars, and Jugs are processed and certified to meet the requirements of the current US EPA "Specifications and Guidance for Contaminant-Free Sample Containers" document for semi-volatile organics, pesticides, PCBs, metals, cyanide, fluoride, nitrate and nitrite analyses. Include PTFE-lined caps.

E. Glass Septa Jars are processed and certified to meet the requirements of the current US EPA "Specifications and Guidance for Contaminant-Free Sample Containers" document for purgeable volatile organic analysis. Include PTFE-lined silicone septa bonded to open-top caps.

Cole-Parmer®

Capacity, mL (oz)	Neck size	Qty/cs	Catalog number	Price/cs
A. Clear wide-mouth glass jars				
60 (2)	53 mm	24	KB-35204-03	
125 (4)	58 mm	24	KB-35204-14	
250 (8)	70 mm	24	KB-35204-28	
500 (16)	89 mm	12	KB-35204-42	
950 (32)	89 mm	12	KB-99540-44	
B. Amber narrow-mouth glass bottles				
125 (4)	22 mm	24	KB-99540-30	
250 (8)	24-414	12	KB-35204-63	
500 (16)	28 mm	12	KB-35204-37	
1000 (34)	33-430	12	KB-35204-50	
C. Amber wide-mouth glass bottles				
125 (4)	38 mm	24	KB-35204-61	
250 (8)	45 mm	24	KB-35204-24	
500 (16)	53 mm	12	KB-35204-38	
950 (32)	53 mm	12	KB-35204-49	
D. Amber narrow-mouth glass jugs				
2500 (80)	38-430	6	KB-35204-56	
4000 (135)	38-430	4	KB-35204-58	
E. Clear wide-mouth glass septa jars				
60 (2)	53 mm	24	KB-99540-20	
125 (4)	58 mm	24	KB-99540-21	

Qorpak® Precleaned Glass Sample Bottles

Save time—no need to prewash bottles

- Vacuum and ionization process removes contaminants such as dirt, dust, carton lint, oil, aerosols, and fine glass particles
- Individually sealed for long-term storage with no contamination
- Bottles come with PTFE-lined caps; jars are available with PTFE-lined or pulp/vinyl-lined caps
- Clear wide-mouth square glass bottles have French square design for a more efficient use of shelf space while making the container easier to grip when pouring

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15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Capacity mL (oz)	Neck size (mm)	Catalog number	Qty/cs	Price/cs
A. Clear narrow-mouth bottles				
30 (1)	20	KB-34606-00	48	
60 (2)	20	KB-34606-10	24	
120 (4)	22	KB-34606-20		
240 (8)	24	KB-34606-30		
480 (16)	28	KB-34606-40	12	
960 (32)	33	KB-34606-50		
B. Clear wide-mouth square glass bottles				
15 (½)	20	KB-34610-00	48	
30 (1)	24	KB-34610-10		
60 (2)	28	KB-34610-20		
120 (4)	33	KB-34610-30	24	
240 (8)	43	KB-34610-40		
480 (16)	48	KB-34610-50		
960 (32)†	58	KB-34610-60	12	
C. Amber narrow-mouth glass bottles				
60 (2)	20	KB-34607-00	24	
120 (4)	22	KB-34607-10		
240 (8)	24	KB-34607-20		
480 (16)	28	KB-34607-30	12	
960 (32)	33	KB-34607-40		
D. Amber wide-mouth glass bottles				
30 (1)	28	KB-34609-00	24	
60 (2)	33	KB-34609-10		
120 (4)	38	KB-34609-20		
240 (8)	45	KB-34609-30		
480 (16)	53	KB-34609-40	12	
960 (32)		KB-34609-50		
E. Clear wide-mouth glass jars with PTFE lined caps				
30 (1)	43	KB-34608-00	48	
60 (2)	53	KB-34608-10	24	
120 (4)	58	KB-34608-20		
270 (9)	70	KB-34608-30		
480 (16)	89	KB-34608-40	12	
960 (32)		KB-34608-50		
F. Clear wide-mouth glass jars with pulp/vinyl lined caps (not shown)				
30 (1)	43	KB-34608-05	48	
60 (2)	53	KB-34608-15	24	
120 (4)	58	KB-34608-25		
270 (9)	70	KB-34608-35		
480 (16)	89	KB-34608-45	12	
960 (32)		KB-34608-55		

†Graduated in mL and oz.

DON'T RISK IT!

Our chemical compatibility database provides important information on chemical resistance—check it out at ColeParmer.com/ChemChart

Scienceware® Wash Bottles, LDPE

No leaking while dispensing

- One-piece polyallomer (PA) cap/delivery tube eliminates leaks
- Precise delivery with needle-thin stream

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20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity mL (oz)	Catalog number	Qty/pk	Price/pk
125 (4)	KB-06053-21	12	
250 (8)	KB-06053-41		
500 (16)	KB-06053-61		
1000 (32)	KB-06053-81		

Thermo Scientific™ Nalgene™ Economy Wash Bottles, LDPE

Eliminate pesky leaks

- One-piece molded PP closure and stem eliminate leaks
- Easily cut stem to increase flow

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20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity mL (oz)	Cap size	Catalog number	Qty/pk	Price/pk
125 (4)	24 mm	KB-62304-20	6	
250 (8)	24 mm	KB-62304-30		
500 (16)	28 mm	KB-62304-40		
1000 (32)	38–430	KB-62304-50	4	

Cole-Parmer® Trigger Spray Bottle, HDPE

Get the stream you need

- Adjusts from fine mist to powerful stream
- Polypropylene cap and spray assembly with stainless steel bearings

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20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity, mL (oz)	Catalog number	Qty/pk	Price/pk
650 (22)	KB-06091-05	4	

Scienceware® Safety-Labeled Wash Bottles, LDPE

Keep solutions close at hand with easy identification

- Quickly identify contents by large lettering and color-coded caps
- These 500-mL bottles include a leakproof polyallomer (PA) cap and nozzle
- Assortment pack allows for easy ordering—includes one each of water, acetone, ethanol, isopropanol, methanol, and toluene†

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15% off on 30 to 119
10% off on 6 to 29 packs or cases

Labeled chemical	Cap color	Qty/pk	Catalog number	Price/pk
Water	Blue	6	KB-06256-30	
Distilled water	Blue		KB-06256-20	
Deionized water	Blue		KB-06256-14	
Acetone	Red		KB-06256-40	
Methanol	Green	6	KB-06256-50	
Isopropanol	Yellow		KB-06256-60	
Toluene†	Red		KB-06256-70	
70% ethanol	Natural		KB-06256-13	
100% ethanol	Natural		KB-06256-81	
Bleach	Blue	6	KB-06256-90	
Methyl ethyl ketone	Green		KB-06256-10	
Soap	Blue		KB-06256-11	
Assortment pack for water, acetone, ethanol, isopropanol, methanol, and toluene†	—	6	KB-06256-00	

†Not recommended for long-term storage of toluene.

Thermo Scientific™ Nalgene™ Unitary™ Wash Bottles, LDPE

Fill up faster with wide-mouth design

- No need to shake or tip to dispense sample
- Increase flow by trimming tip
- One-piece leakproof design with PP screw closure

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity, mL (oz)	Cap size	Catalog number	Qty/pk	Price/pk
125 (4)	24 mm	KB-06050-20	6	
250 (8)	38 mm	KB-06050-30	4	
500 (16)	38 mm	KB-06050-50	4	
750 (24)	38 mm	KB-06050-70	4	
1000 (32)	43 mm	KB-06050-90	2	

KB-63000-04 **Replacement caps,** PP, 24 mm. Pack of 12
KB-63000-10 **Replacement caps,** PP, 43 mm. Pack of 12

Beaker and Bottle Brushes

No more dirty glassware—clean it easily

- Choose the right brush for your glassware from shape to bristle type
- Radial tip brushes reduce scratches and provide effective cleaning
- Contoured brushes allow you to reach angled areas with ease
- Tufted-end brushes fold to get in narrow-mouth vessels and then open once inside
- Choose angle and swivel head brushes to easily clean curves
- Volumetric models have a bendable handle to fit container's shape

Wait!
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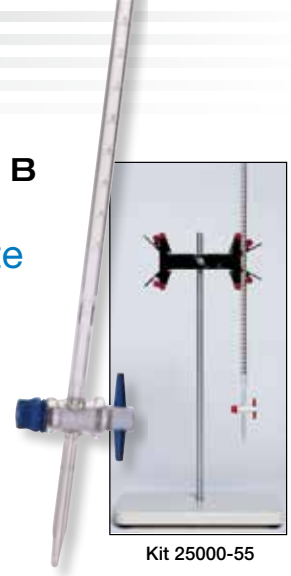
Find more than 100,000 products to choose from!

Key	Description	Brush bristles			Handle length		Catalog number	Qty/pk	Price
		Size (L x W)		Material	in.	cm			
Beaker/bottle/flask brushes									
A	Radial tip, small	3" x 1¾"	7.6 x 3.2 cm	Polyester	9	22.9	KB-84550-80	12	
	Radial tip, large	6" x 3⅛"	15.2 x 7.9 cm		10	25.4	KB-84550-81	12	
	Radial tip, XL	6" x 3⅛"	15.2 x 7.9 cm		13	33	KB-84550-82	6	
B	Contoured, large	10" x 3⅛"	25.4 x 7.9 cm	Polyester	7	17.8	KB-84550-83	6	
C	Fan tip, small	6" x 1½"	15.2 x 3.8 cm	Natural	6	15.2	KB-84550-86	12	
D	Tufted end, small	4¼" x 1½"	11.4 x 3.8 cm	Natural	7½	19.1	KB-84550-87	12	
	Tufted end, XL	4¼" x 1¾"	11.4 x 4.5 cm		19½	49.5	KB-84550-88	12	
E	Angled head, small	3" x 1"	7.6 x 2.5 cm	Polyester	13	33	KB-84550-76	1	
	Angled head, large	4" x 1½"	0.2 x 3.8 cm	Natural	12	30.5	KB-84550-89	12	
	Volumetric, large	4" x 1½"	10.2 x 3.8 cm	Nylon	10	25.4	KB-84550-90	12	
Bottle/cylinder brushes									
F	Radial tip, white bristles	6½" x 3⅛" dia	16.5 x 7.9 cm dia	Nylon	9	22.9	KB-84550-00	1	
	Radial tip, X-shaped yellow bristles						KB-84550-03	1	
	Radial tip, X-shaped green bristles						KB-84550-04	1	
G	Radial tip, white bristles			Polyester	9	22.9	KB-84550-70	1	
	Radial tip, red bristles						KB-84550-72	1	
	Radial tip, blue bristles						KB-84550-74	1	
H	Radial tip, small	4½" x 1¾"	11.4 x 4.5 cm	Natural	7	17.8	KB-84550-15	12	
	Radial tip, medium	5" x 2"	12.7 x 5.1 cm	Nylon	11	27.9	KB-84550-16	12	
	Radial tip, large	6" x 2⅜"	15.2 x 6.1 cm		14	35.6	KB-84550-17	12	
	Radial tip, XL				18	45.7	KB-84550-18	12	
	Radial tip, XXL	6" x 2¾"	15.2 x 7 cm		24	60.9	KB-84550-19	12	
Glassware brushes									
I	Foam-tipped	7" x 2"	17.8 x 5.1 cm	Polypropylene/foam	13	33	KB-84552-14	1	
		5" x 2"	12.7 x 5.1 cm		7	17.8	KB-84552-16	1	
J	Cylinder/Funnel brush	16" x 3⅛"	40.6 x 7.9 cm	Polyester	10½	26.7	KB-84550-71	12	
		24" x 3⅛"	60.9 x 7.9 cm		17½	44.5	KB-84550-73	12	
K	Swivel head brush	1¾" dia	3.2 cm	Natural	13	33	KB-84550-55	1	

Cole-Parmer® Class B Burettes

Get reliable, accurate draining

- White, permanent graduations for easy reading won't rub off
- Noncontaminating PTFE stopcock with 2-mm straight bore
- Durable borosilicate glass



Kit 25000-55

Capacity	Graduation interval	Tolerance	Catalog number	Price
10 mL	0.05 mL	±0.04 mL	KB-63100-34	
25 mL	0.1 mL	±0.1 mL	KB-63100-36	
50 mL	0.1 mL	±0.1 mL	KB-63100-38	
100 mL	0.2 mL	±0.2 mL	KB-63100-40	

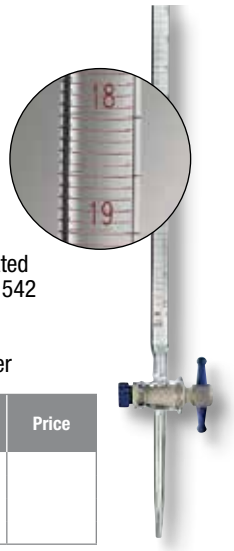
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov

KB-25000-55 **Burette and stand kit;** includes 50-mL burette, stand and clamp

PYREX® Brand 2103 Class A Burettes

No more hard-to-read aliquots

- Get better readings with large, easy-to-read numbers and sharp lines
- Be more accurate—capacity tolerance calibrated to ASTM E 287, burettes calibrated to ASTM E 542
- Leak-resistant PTFE stopcock has 2-mm bore
- Maintain fluid integrity with included dust cover



Capacity	Graduation interval	Tolerance	Catalog number	Price
10 mL	0.05 mL	±0.02 mL	KB-34543-21	
25 mL	0.10 mL	±0.03 mL	KB-34543-22	
50 mL	0.10 mL	±0.05 mL	KB-34543-23	
100 mL	0.20 mL	±0.10 mL	KB-34543-24	

Automatic Self-Zeroing, Self-Supporting Burettes

Prevent contamination from outside elements

- Get easy, drop-by-drop delivery with unique push-button stopcock
- Quickly repeat titration by presetting drop speed
- Easy-to-read blue graduations

What's included: LDPE bottle, base, and tube; vinyl stopper; glass burette; and PP stopcock.

Capacity	Subdivisions	Reservoir	Catalog number	Price
10 mL	0.05 mL	500 mL	KB-07879-10	
15 mL	0.1 mL	500 mL	KB-07879-20	
25 mL	0.1 mL	1000 mL	KB-07879-30	
50 mL	0.1 mL	1000 mL	KB-07879-40	

Thermo Scientific™ Nalgene™ Automatic Self-Zeroing Burettes

No lubrication of PTFE plug needed

- Won't break—made of clear acrylic body, PTFE stopcock, and PMP tip
- Individually calibrated for accuracy to meet ASTM E 287 requirements

Unaffected by most dilute acids and bases (except HF and ammonium hydroxide). Use over full pH range. Not designed for use with alcohols or organic solvents. Include a cover, a squeeze bottle with closure, and 3 ft (1 m) of vinyl tubing.

Burette 06209-30 shown with stand 06703-00 and clamp 06703-10

Capacity	Graduation intervals	Reservoir	Catalog number	Price
10 mL	0.1 mL	500 mL	KB-06209-10	
25 mL	0.1 mL	500 mL	KB-06209-20	
50 mL	0.1 mL	1000 mL	KB-06209-30	

KB-06703-00 **Support stand** with center rod; 30" (76 cm) L x ½" (1.3 cm) dia

KB-06703-10 **Single burette clamp,** HDPE

Titrette® Digital Bottletop Electronic Burettes

Easily calibrate for GLP and ISO compliance

- No more wasting titrant with SafetyPrime™ valve
- Eliminate meniscus reading errors—dispensed results displayed on LCD with 0.01-mL resolution
- Mount directly to bottle (not included), reducing liquid transfer
- Always view bottle label with 360° rotatable valve block
- Suitable for solutions up to 2N

What's included: 33-mm, 38-mm, and STJ 29/32 polypropylene (PP) bottle adapters; fine-tip titrating tube, a 195- to 350-mm telescoping filling tube, lithium battery, and a performance certificate.

ISO 9001:2008 CERTIFIED SUPPLIER CE

Specifications

Cumulative volume: up to 99.99 mL in 0.01-mL increments
Reproducibility: ±0.1%
Fitting: fits 45-mm bottle thread
Wetted materials: borosilicate glass, PP, PTFE, ETFE, FEP, PFA, platinum-iridium, and ceramic
Power: lithium battery (included) >60,000 titrations

Capacity	Accuracy	Catalog number	Price
25 mL	±0.2% (±50 µL)	KB-07910-51	
50 mL	±0.2% (±100 µL)	KB-07910-53	

KB-07878-53 **Drying tube.** Protects sensitive reagents from moisture or CO_2

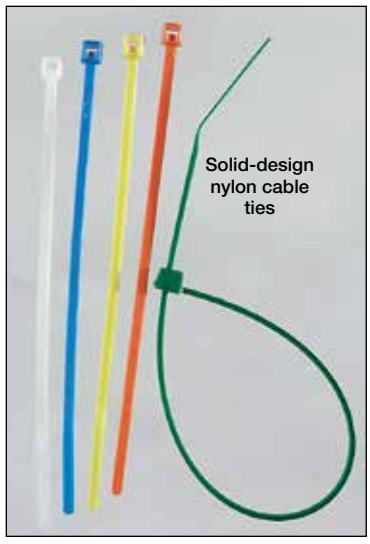
KB-07193-05 **Drierite® drying agent** for 07878-53. Twelve 1-lb packs per carton

Solid-Design Cable Ties, Nylon

Won't corrode or stretch—made from injection-molded plastic

- Simply bend tip and pull through locking mechanism to secure
- Won't lose tension—even in vibrating, oily, or wet environments
- Withstand temperatures to 185°F (85°C), with melting point of 495°F (257°C)

Black ties are UV and weather resistant from –40 to 221°F (–40 to 105°C). UL-component recognized and self-extinguishing as per UL 94 Flam. class: V-2. Meet military specification MS3367.



06830-51 has a write-on identification tab

Length	Bundle diameter	Color	Catalog number	Qty/pk	Price/pk
Miniature, 18-lb tensile strength					
4" (10.2 cm)	7/8" (2.2 cm)	White	KB-06830-66	100	
			KB-06830-52	1000	
			KB-06830-51†	1000	
4" (10.2 cm)	7/8" (2.2 cm)	Black	KB-06830-68	100	
4" (10.2 cm)	7/8" (2.2 cm)	Red	KB-06830-11	100	
			KB-06830-61	1000	
4" (10.2 cm)	7/8" (2.2 cm)	Blue	KB-06830-62	1000	
4" (10.2 cm)	7/8" (2.2 cm)	Green	KB-06830-63	1000	
4" (10.2 cm)	7/8" (2.2 cm)	Yellow	KB-06830-64	1000	
4" (10.2 cm)	7/8" (2.2 cm)	Orange	KB-06830-65	1000	
Intermediate, 40-lb tensile strength					
5½" (14.0 cm)	1¼" (3.2 cm)	White	KB-06830-54	1000	
5½" (14.0 cm)	1¼" (3.2 cm)	Black	KB-06830-78	100	
8" (20.3 cm)	2⅛" (5.4 cm)	White	KB-06830-30	1000	
8" (20.3 cm)	2⅛" (5.4 cm)	Black	KB-06830-89	100	
			KB-06830-88	1000	
8" (20.3 cm)	2⅛" (5.4 cm)	Red	KB-06830-31	1000	
8" (20.3 cm)	2⅛" (5.4 cm)	Blue	KB-06830-32	1000	
8" (20.3 cm)	2⅛" (5.4 cm)	Green	KB-06830-33	1000	
8" (20.3 cm)	2⅛" (5.4 cm)	Yellow	KB-06830-19	100	
8" (20.3 cm)	2⅛" (5.4 cm)	Orange	KB-06830-41	1000	
Standard, 50-lb tensile strength					
7½" (19.1 cm)	1¾" (4.4 cm)	White	KB-06830-43	100	
			KB-06830-56	1000	
11" (27.9 cm)	3" (7.6 cm)	White	KB-06830-47	100	
			KB-06830-46	1000	
11" (27.9 cm)	3" (7.6 cm)	Black	KB-06830-49	100	
			KB-06830-48	1000	
15" (38.1 cm)	4" (10.2 cm)	White	KB-06830-58	100	
15" (38.1 cm)	4" (10.2 cm)	Black	KB-06830-29	100	
Heavy duty, 120-lb tensile strength					
14½" (36.8 cm)	4" (10.2 cm)	White	KB-06830-36	50	
			KB-06830-91	100	
28" (71.1 cm)	8" (20.3 cm)	White	KB-06830-39	50	
Extra heavy duty, 175-lb tensile strength					
34" (86.4 cm)	10" (25.4 cm)	White	KB-06830-42	50	

†Ties 06830-51 have a textured, write-on identification tab.

Heat-Resistant Cable Ties, PP

Withstand wide temperature range –40 to 239°F (–40 to 115°C)

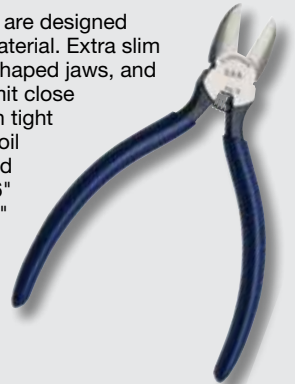
Solid-design polypropylene (PP) cable ties resist a number of chemicals and are UV-resistant. Autoclavable.

Length	Bundle dia	Tensile strength	Color	Catalog number	Price/ pk of 1000
4" (10.2 cm)	¾" (1.9 cm)	11 lb	Natural	KB-06830-85	
8" (20.3 cm)	1¾" (4.4 cm)	25 lb	Black	KB-06830-95	

Crescent® Plastic-Cutting Diagonal Pliers

Get close and accurate cutting

These solid-joint diagonal pliers are designed specifically for cutting plastic material. Extra slim design, ground-flat back, oval-shaped jaws, and flush ground cutting edges permit close trimming and accurate cutting in tight areas. Vinyl cushion grips and coil springs provide user comfort and reduce fatigue. Pliers measure 6" (15.2 cm) L; nose measures 27/32" (21 mm) L x 47/64" (19 mm) W.



Description	Catalog number	Price
Plastic-cutting diagonal pliers	KB-97109-25	

Thermo Scientific™ Nalgene™ Round Carboys, LDPE

No more leaks

- Leakproof, polypropylene cap for no worry transport
- Make transport easy with easy-grip handles
- Withstand corrosive materials
- Maintain adequate levels of solution—larger than 10-L carboys indicate 1-gallon and 5-liter increments
- Dispense easily with spigot models

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Liters (gallons)	Cap size	Catalog number	Qty/pk	Price/pk
Carboys with shoulder handles				
10 (2½)	83B	KB-06031-32	1	
15 (4)	83B	KB-06031-42		
20 (5)	83B	KB-06031-52		
25 (6½)	83B	KB-06031-62		
50 (13)	83B	KB-06031-72		
Wide-mouth carboys with shoulder handles				
10 (2½)	100 mm	KB-06056-22	1	
15 (4)	100 mm	KB-06056-32		
20 (5)	100 mm	KB-06056-52		
Carboy with spigot and shoulder handles				
4 (1)	38-430	KB-06065-10	1	
10 (2½)	83B	KB-06065-22		
20 (5)	83B	KB-06065-32		
25 (6½)	83B	KB-06065-52		
50 (13)	83B	KB-06065-62		

Accessories

KB-06258-30 **Replacement cap,** PP, 83B. Pack of 2
KB-63000-16 **Replacement cap,** PP, 100 mm. Pack of 12
KB-63000-18 **Replacement cap,** PP, 38-430. Pack of 12
KB-06070-22 **Replacement spigot,** PP

Cole-Parmer® Economical Heavy-Duty Carboys with Shoulder Handle, PP

Sturdy, octagonal design for added rigidity

- Easier filling and pouring with offset neck
- Leakproof spigot models have tube fitting for easier filling of containers
- Polypropylene closure reduces evaporation
- Autoclavable

Cole-Parmer®

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Liters (gallons)	Cap size	Catalog number	Qty/pk	Price/pk
Heavy-duty carboys with shoulder handle				
5 (1¼)	45 mm	KB-62507-00	1	
10 (2½)	90 mm	KB-62507-10	1	
20 (5¼)	90 mm	KB-62507-20	1	
Heavy-duty carboys with shoulder handle and spigot				
5 (1¼)	45 mm	KB-62507-05	1	
10 (2½)	90 mm	KB-62507-15	1	
20 (5¼)	90 mm	KB-62507-25	1	

Thermo Scientific™ Nalgene™ FDA-Compliant Carboys, PP

Get a better grip with two-handle construction

- Dispense solutions more quickly with optional spigot models—accept ¼", ½", or ⅝" ID tubing
- Leakproof polypropylene (PP) cap
- Autoclavable

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Liters (gallons)	Cap size	Catalog number	Qty/pk	Price/pk
FDA-compliant carboys, USP Class VI				
10 (2½)	83B	KB-06063-12	1	
20 (5)	83B	KB-06063-22		
50 (13)	83B	KB-06063-32		
FDA-compliant carboys with spigot, USP Class VI				
10 (2½)	83B	KB-06064-50	1	
20 (5)	83B	KB-06064-60		
50 (13)	83B	KB-06064-70		

Wait!
There's More at ColeParmer.com
Find all the product specs you need!

Cole-Parmer® Economical Square Carboys, HDPE

Handle and pour contents easily

- Molded-in handle and indented bottom for easy grabbing
- No leaks with leakproof HDPE threaded cap
- Get easier dispensing by drilling and attaching optional faucet
- Autoclavable; withstand temperature from 68 to 248°F (20 to 120°C)

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10% off on 6 to 29 packs or cases

Cole-Parmer®

Liters (gallons)	Cap size	Catalog number	Qty/pk	Price/pk
10 (2½)	63 mm	KB-06031-80	1	
20 (5)		KB-06031-82		
10 (2½)	63 mm	KB-06031-84	4	
20 (5)		KB-06031-86		

KB-06031-88 **HDPE faucet,** ¾"

Thermo Scientific™ Nalgene™ Rectangular Carboys, HDPE

Don't waste valuable bench space

- Space-saving design for no dead area like traditional round carboys
- Both liter and gallon graduations for easy volume determination
- Leakproof high-density polyethylene (HDPE) for safe transport

Carboys with quick-action spigots accept ⅝" ID tubing, come with adapters for ¼" to ½" ID tubing, and feature an integrally molded threaded boss. Aspirator carboys feature integral tubulation for ½" ID tubing.

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10% off on 6 to 29 packs or cases

Liters (gallons)	Cap size	Catalog number	Qty/pk	Price/pk
Rectangular carboys				
9 (2)	100 mm	KB-06032-20	1	
20 (5)	100 mm	KB-06032-50	1	
Rectangular carboys with spigot				
9 (2)	100 mm	KB-06066-20	1	
20 (5)	100 mm	KB-06066-50	1	

Collapsible Containers, LDPE

Won't take up extra space—easily expand when filled

- Stack neatly when empty, just unscrew cap and fill to expand
- Include polypropylene caps

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15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity, L (gallon)	Cap size	Qty/pk	Catalog number	Price/pk
1 (¼)	38 mm	12	KB-06100-10	
4 (1)			KB-06100-20	
10 (2½)	38 mm	10	KB-06100-30	
19 (5)			KB-06100-40	

Thermo Scientific™ Nalgene™ Jerricans with Handle, HDPE

Better stability with wider footprint

- Get accurate pouring with integral spout
- Don't lose the cap—attached via strap to keep in place
- Gallon and liter graduations

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15% off on 30 to 119
10% off on 6 to 29 packs or cases

Liters (gallons)	Cap size	Catalog number	Qty/pk	Price/pk
6 (1½)	53B	KB-06069-10	1	
10 (2½)		KB-06069-20		
13 (3½)		KB-06069-25		
20 (5)		KB-06069-30		

KB-63000-20 **Replacement cap;** PP, 53B. Pack of 12

Cole-Parmer® Multiwell Tissue Culture Plates, PS

Alphanumeric markings provide easy identification of individual wells

– Stacking ring on lid offers added stability when handling tall stacks of plates

Select from high-binding treated tissue culture plates or untreated plates. Raised rim on each well nests into the rings on the single direction lid to reduce evaporation and limit the risk of cross-contamination. Clear polystyrene (PS) construction. Each plate is sterilized by gamma irradiation and packaged individually (50/sleeve).

01959-39

01959-40

Cole-Parmer®

Multiwell Plates with Treated Surface

STERILE

Number of wells	Cell growth area	Well shape	Lid	Qty/sleeve	Catalog number	Qty/cs	Price/cs
6	9.60 cm²	Flat	Yes	50	KB-01959-40	100	
12	3.85 cm²	Flat	Yes	50	KB-01959-42	100	
24	1.93 cm²	Flat	Yes	50	KB-01959-44	100	
48	0.84 cm²	Flat	Yes	50	KB-01959-46	100	
96	0.33 cm²	Flat	Yes	50	KB-01959-48	100	

Multiwell Plates with Untreated Surface

STERILE

Number of wells	Working volume	Well shape	Lid	Qty/sleeve	Catalog number	Qty/cs	Price/cs
6	2 to 8 mL	Flat	Yes	50	KB-01959-31	100	
12	2 to 4 mL	Flat	Yes	50	KB-01959-33	100	
24	0.5 to 1.5 mL	Flat	Yes	50	KB-01959-35	100	
48	0.3 to 1 mL	Flat	Yes	50	KB-01959-37	100	
96	50 to 300 µL	Flat	No	50	KB-01959-39	100	
			Yes	50	KB-01959-41	100	

Cole-Parmer® Single-Use Vented Flasks, PC

Phase out expensive stainless steel devices

– Leakproof cap assembly provides safe storage and transfer of fluids

– Cap manifold creates a closed system with one continuous flow path

– A hydrophobic PTFE filter offers clean ventilation inside the flask and in the event of a spill, it prevents contents from escaping

These single-use polycarbonate (PC) flasks with tubing and vent filters are perfect for fluid transfer and storage. Each polypropylene (PP) cap assembly features a platinum-cured silicone gasket for a leakproof system without any machining residue or bonding agents. Hose barb plug on tubing keeps line closed until ready for use. Pinch clamp helps control flow into the container or can close off the line completely. A 0.2 µm hydrophobic PTFE filter allows for ventilation while preventing media from escaping in the event of a spill. Rigid dip tube with notch provides easy filling and extraction of media.

What's included: PC flask, PP cap, rigid dip tube, TPE tubing, hose barb plug, pinch clamp, and PTFE filter.

06061-38 06061-39

Cole-Parmer®

STERILE

Capacity (mL)	Graduation range (mL)	Graduation (mL)	Overall height	Cap/stopper size	Catalog number	Qty/cs	Price/cs
1000	200 to 1000	100	8½"	53 mm	KB-06061-38	6	
2000	600 to 2000	100	11"	53 mm	KB-06061-39	6	

Stuart® 8500 Microcentrifuge

Be safe with dual locking lid

NEW

- Quickly change rotors with quick-release adapter—no tools required
- Built-in recessed rotor bowl contains spills for easy cleanup
- Small footprint—the perfect unit for your personal workspace
- Spin samples rapidly or use in applications where greater g-force is required
- Includes two rotors: fixed-angle, 8 x 1.5- to 2.0-mL tubes; 32 x 0.2-mL strip tubes

Speed range	Max RCF x g	Power (VAC, Hz)	Catalog number	Price
8500 rpm	3884	100 to 240, 50/60	KB-17414-70	

stuart®

Cole-Parmer® MS-3400 Centrifuge

Be more productive and more versatile

- Rotor options accommodate tube sizes from 0.5 to 50 mL
- Glove-friendly digital keypad interface keeps you safe from chemicals
- No annoying noise—centrifuge runs quietly

Two-line digital display shows status, time, rpm and RCF(g), and the 60-minute timer signals when run is complete. Easily repeat previous settings for quick testing. Stainless steel interior chamber is easily accessible for cleaning and will withstand years of use.

Cole-Parmer®

Specifications

Rotor (included): four-place swinging bucket **Noise level:** <50 dBA

Speed range	Max RCF x g	Maximum tube size	Timer	Power		Catalog number	Price
				VAC	Hz		
500 to 4000 rpm	2508	28 x 118 mm	60 minutes	120	60	KB-17414-21	
				220	50	KB-17414-22	
MS-3400 with complete set of tube adapters (17414-31, -32, -33)							
500 to 4000 rpm	2508	Various	60 minutes	120	60	KB-17414-23	
				220	50	KB-17414-24	

Optional Tube Adapters

Capacity	Catalog number	Qty/pk	Price/pk
5- to 15-mL tubes	KB-17414-31	2	
3.5- to 6.5-mL tubes	KB-17414-32	2	
0.5- to 3-mL tubes	KB-17414-33	2	
2-mL small tubes	KB-17415-26	2	
Greiner tube lift adapters	KB-17415-27	12	

KB-17414-38 **Tube shield.** Pack of 2
KB-17414-37 **Tube holder**, 24-place

Cole-Parmer® elements™ Plus Graduated Cylinders, Class A, Type 1 Glass

Won't tip over—heavy hexagonal base provides stability

- Calibrated "to contain" for accuracy—meet ASTM E1272 Class A tolerances and specifications
- Class A borosilicate glass withstands temperatures from –58 to 1022°F (–50 to 550°C)
- Durable white enamel graduations

NEW

elements™ Cole-Parmer®

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15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Capacity (mL)	Graduations (mL)	Tolerance (mL)	Catalog number	Qty/pk	Price/pk
50	1	±0.25	KB-34503-45	2	
100	1	±0.4	KB-34503-47		
250	2	±0.8	KB-34503-49		
500	5	±1.3	KB-34503-51		

Kinesis® TELOS® QuEChERS Extraction Kits

Quickly and economically extract the required analytes into solution

- Salt pack helps transfer salt to the centrifuge tube quickly and easily with minimal waste
- Conform with documented AOAC 2007.01 and EN 15662 protocols

TELOS QuEChERS extraction kits offer the first stage cleanup for many sample types. This initial crude extraction and partitioning step uses organic solvent and salt solution to extract the required analytes into solution. Select from kits without tubes, with 50 mL centrifuge tubes, or with tubes and homogenizer beads. Beads aid in breaking up more complex sample types.

Methodology	Description	Qty/pk	Catalog number	Price/pk
4 g $MgSO_4$ (anhydrous), 1 g NaAc (anhydrous)				
AOAC 2007.01	Without tubes	50	KB-06478-96	
	With tubes	50	KB-06478-95	
	With tubes and beads	50	KB-06478-97	
6 g $MgSO_4$ (anhydrous), 1.5 g NaAc (anhydrous)				
AOAC 2007.01	Without tubes	50	KB-06478-89	
	With tubes	50	KB-06478-88	
	With tubes and beads	50	KB-06478-90	
6 g $MgSO_4$ (anhydrous), 1.5 g NaAc $3H_2O$				
AOAC 2007.01	Without tubes	50	KB-06478-83	
	With tubes	50	KB-06478-82	
	With tubes and beads	50	KB-06478-84	
4 g $MgSO_4$ (anhydrous), 1 g NaCl, 0.5 g disodium citrate sesquihydrate (TSCD), 1 g sodium citrate (DHS)				
EN 15662	Without tubes	50	KB-06479-01	
	With tubes	50	KB-06479-00	
	With tubes and beads	50	KB-06479-02	

Kinesis® TELOS® SPE Blank Fixed 96-Well Microplates

Pack wells with custom sorbents

- Optimized for the sample processing and extraction of small volume fluids
- Use with vacuum or positive pressure

Individual well is designed to allow maximum interaction between the analyte and sorbent and ensure elution volumes are kept to a minimum. Fill with your own custom sorbent to meet your application. Each well is fitted with a polyethylene frit.

Description	Frit size	Qty/pk	Catalog number	Price
Fixed-well plates	10 µm	1	KB-06478-31	
	20 µm	1	KB-06478-28	

Kinesis® TELOS® QuEChERS Cleanup Kits

Perform more advanced cleanup for cleaner samples

- Remove pigments, acids, and fats using three different combinations of SPE sorbents
- Anhydrous magnesium sulfate removes any excess water

Further cleanup of samples is easy with TELOS QuEChERS cleanup kits. After initial sample prep with the extraction kit, a more advanced cleanup is often required for the removal of interferences such as pigments, organic acids, and fats. The removal of these interferences is carried out using a combination of three different SPE sorbents (see below). Each cleanup kit comes with 2 mL or 15 mL centrifuge tubes, depending on the sample volume and methodology followed.

TELOS PSA: removes organic acids
TELOS C18: removes nonpolar interferences, including fats
TELOS PestiCarb: removes pigments, including chlorophyll and carotenoids

Method-ology	Sorbent	Included tube size	Qty/pk	Catalog number	Price /pk
General cleanup kits					
AOAC 2007.01	150 mg $MgSO_4$ (anhydrous) & 50 mg PSA	2 mL	100	KB-06479-04	
	1.2 g $MgSO_4$ (anhydrous) & 400 mg PSA	15 mL	50	KB-06479-07	
EN 15662	150 mg $MgSO_4$ (anhydrous) & 25 mg PSA	2 mL	100	KB-06479-05	
	900 mg $MgSO_4$ (anhydrous) & 150 mg PSA	15 mL	50	KB-06479-06	
Removal of fats and proteins					
AOAC 2007.01	150 mg $MgSO_4$ (anhydrous), 50 mg PSA, & 50 mg C18	2 mL	100	KB-06478-65	
	1.2 g $MgSO_4$ (anhydrous), 400 mg PSA, & 400 mg C18	15 mL	50	KB-06478-68	
EN 15662	150 mg $MgSO_4$ (anhydrous), 25 mg PSA, & 25 mg C18	2 mL	100	KB-06478-66	
	900 mg $MgSO_4$ (anhydrous), 150 mg PSA, & 150 mg C18	15 mL	50	KB-06478-77	
NYT 1380-2007	300 mg $MgSO_4$ (anhydrous), 100 mg PSA, & 100 mg C18	15 mL	50	KB-06478-67	
Removal of pigments					
AOAC 2007.01	150 mg $MgSO_4$ (anhydrous), 50 mg PSA, & 50 mg PestiCarb	2 mL	100	KB-06479-09	
	1.2 g $MgSO_4$ (anhydrous), 400 mg PSA, & 400 mg PestiCarb	15 mL	50	KB-06479-14	
EN 15662	150 mg $MgSO_4$ (anhydrous), 25 mg PSA, & 2.5 mg PestiCarb	2 mL	100	KB-06479-10	
	150 mg $MgSO_4$ (anhydrous), 25 mg PSA, & 7.5 mg PestiCarb	2 mL	100	KB-06479-11	
Removal of fats, proteins, and pigments					
AOAC 2007.01	150 mg $MgSO_4$ (anhydrous), 50 mg PSA, 50 mg C18, & 50 mg PestiCarb	2 mL	100	KB-06478-78	
	1.2 g $MgSO_4$ (anhydrous), 400 mg PSA, 400 mg C18, & 400 mg PestiCarb	15 mL	50	KB-06478-80	

Cole-Parmer® VapLock™ Closed Systems

Protect lab personnel from hazardous solvent vapors

- Minimize chemical exhaust from solvent reservoir bottles and waste containers—ideal for HPLC and other analytical testing instruments
- Avoid costly fines by maintaining regulatory compliance
- Achieve repeatable results and ensure the purity of the process
- Simply attach to any standard solvent bottle and waste container
- Versatile—large selection of components provides a solution for any system

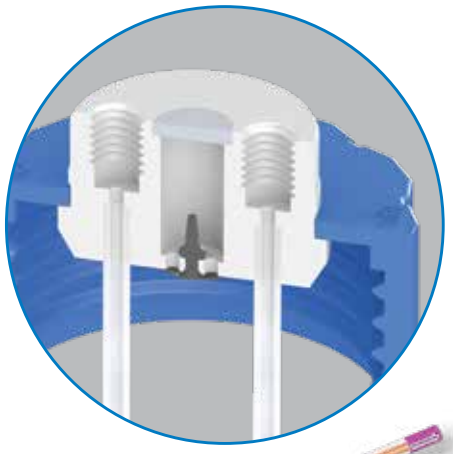
Solvent Delivery

– Cap seals securely to prevent contamination and evaporation

– Integral check valve prevents vapors from escaping

– Filtered air replaces fluid withdrawn from the container, maintaining equilibrium

– Simple and quick bottle changes—easy to remove without tangling inlet tubes



Solvent Delivery Container Caps. PTFE cap body, PP spin collar, PTFE/SS integrated air inlet valve, and 50 µm PTFE exhaust filter.

Cap size	Ports	Seal material	Catalog number	Price
GL45	(2) ¼"-28 UNF(F)	FFKM	KB-12018-08	
		EPDM	KB-12018-06	
	(4) ¼"-28 UNF(F)	FFKM	KB-12018-09	
		EPDM	KB-12018-07	

⚠ **WARNING:** This product can expose you to chemicals including tetrafluoroethylene, which is known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov

Waste Collection

– Fully enclosed and sealed system collects waste while containing harmful vapors

– Manifolds include multiple connection ports to adapt to your system; free-spinning collar allows quick disconnect

– Exhaust filter absorbs solvent vapors to prevent escaping to the environment; choose filter with breakthrough indicator to know when to replace

– Includes everything needed for closed waste containment—select a waste manifold kit to use with your existing container, or choose a system with waste container included

Waste Manifold Kits. Include a 10-port manifold [6 ports x ¼"-28 UNF(F), 3 ports x ¼" NPT(F), and 1 port x ½" NPT(F)], fittings, plugs for unused ports, tubing with connections, and exhaust filter with breakthrough indicator.

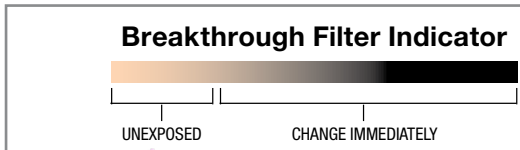
Cap size	Manifold material	Catalog number	Price
38-430	PTFE	KB-12018-63	
Wako 38 mm	PP	KB-12018-68	
Wako 38 mm	PTFE	KB-12018-69	
GL45	PTFE	KB-12018-75	
DIN 45	PP	KB-12018-80	

Solvent Waste Systems. Include container, manifold, fittings, plugs for unused ports, tubing with connections, and exhaust filter with breakthrough indicator.

Container	Manifold	Fittings	Catalog number	Price
20-L capacity, translucent PE; FM approved, OSHA, NFPA, and EPA compliant	10 ports, PP	Quick-disconnect, PP	KB-12020-69	
	10 ports, PTFE	Quick-disconnect, SS	KB-12020-70	

⚠ **WARNING:** This product can expose you to chemicals including tetrafluoroethylene, which is known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov

Breakthrough Filter Indicator



Exhaust filter with breakthrough indicator changes color as the activated carbon filter absorbs hazardous carbon vapors.

Replacement Exhaust Filters. Activated carbon, HDPE cartridge, ¼" NPT(F) port.

Description	Qty	Catalog number	Price
75 g filter	1	KB-12019-79	
	5	KB-12019-81	
75 g filter with breakthrough indicator	1	KB-12019-80	

⚠ **WARNING:** This product can expose you to chemicals including formaldehyde, which is known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

A Solution for Any System

Vaplock Closed Systems are modular, with a full range of available options to adapt to most any system. Choose from a variety of materials for chemical compatibility, and multiple port connections and bottle sizes for versatility.

For our full selection, visit **ColeParmer.com/VapLock**.

Custom solutions are also available—contact our Application Specialists for details. **1-800-323-4340**

Diba Omnifit® EZ and EZ SolventPlus™ Chromatography Columns

Ergonomically designed endpieces provide simple and quick height adjustment

- Precision borosilicate glass columns provide inertness, visibility, and performance
- PEEK™ column threads offer outstanding durability
- Superior frit placement adds bed support and even distribution of sample flow
- Reusable columns let you pack your own media specific to your application

Ergonomically designed EZ columns are easy to use yet provide excellent results. Columns are ideal for low- to medium-pressure applications and are resistant to many solvents used in liquid chromatography. Modular design gives you the flexibility to mix and match column sizes with different endpiece types to meet your specific requirements.

Order **EZ SolventPlus columns** for techniques using organic solvents such as reversed phase chromatography. EZ SolventPlus columns have only the most chemically inert materials in the fluid path—borosilicate glass, PTFE, ETFE, and Chemraz®—ensuring the utmost chemical resistance.

Select from three endpiece configurations to suit your application—one fixed and one adjustable, two adjustable, or two fixed. Each adjustable endpiece gives you the flexibility to modify the bed length up to 80 mm in height (up to 160 mm with two adjustable endpieces). Once in place, fine adjustments can be made to position the endpiece to cause minimal disturbance to the packed bed. Each column is supplied assembled and ready to use, with all the tubing, fittings, and connections needed to get started.

What's included: a frit kit (contains two each of 10 µm PE, 10 µm PTFE, and 30 µm PTFE frits), a Click-N-Seal® 10-32 PEEK conical port fitting, and two 1⁄16" OD PTFE tubing assemblies with ¼-28 UNF fitting at one end (PP for EZ columns and ETFE for EZ SolventPlus columns).

Configurations

All Omnifit columns are supplied assembled and ready for use, with tubing and fittings to connect the column into an existing system. Three configurations are available:

- One fixed endpiece as a bed support and one adjustable endpiece (plunger) to adjust the bed height. The adjustable endpiece is designed to give the user fine control over the movement of the endpiece, minimizing the risk of disturbance to the packed bed and giving 80 mm of height adjustment.
- Two adjustable endpieces for maximum flexibility in bed height. With an adjustable endpiece at both ends of the column, the user gains 160 mm of adjustment, offering a wide range of bed lengths and volumes.
- Non-adjustable with two fixed endpieces, a cost-effective option when height adjustment is not important.

Additional sizes are available—go to ColeParmer.com for the full selection.

EZ Columns

Column ID	Column length	Max pressure	One fixed & one adjustable endpieces		Two adjustable endpieces		Two fixed endpieces	
			Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
6.6 mm	100 mm	900 psi	KB-11942-94		KB-11942-93		KB-11942-95	
	250 mm		KB-11943-00		KB-11942-99		KB-11943-01	
10 mm	250 mm	600 psi	KB-11943-15		KB-11943-14		KB-11943-16	
	500 mm		KB-11943-24		KB-11943-23		KB-11943-25	
15 mm	250 mm	300 psi	KB-11943-33		KB-11943-32		KB-11943-34	
	400 mm		KB-11943-39		KB-11943-38		KB-11943-40	
25 mm	250 mm	150 psi	KB-11943-51		KB-11943-50		KB-11943-52	
	500 mm		KB-11943-60		KB-11943-59		KB-11943-61	
35 mm	250 mm	150 psi	KB-11943-66		KB-11943-65		KB-11943-67	
	330 mm		KB-11943-69		KB-11943-68		KB-11943-70	
50 mm	250 mm	75 psi	KB-11943-75		KB-11943-74		KB-11943-76	

EZ SolventPlus™ Columns

Column ID	Column length	Max pressure	One fixed & one adjustable endpieces		Two adjustable endpieces		Two fixed endpieces	
			Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
6.6 mm	100 mm	900 psi	KB-11943-90		KB-11943-89		KB-11943-91	
	400 mm		KB-11944-02		KB-11944-01		KB-11944-03	
10 mm	150 mm	600 psi	KB-11944-08		KB-11944-07		KB-11944-09	
15 mm	250 mm	300 psi	KB-11944-29		KB-11944-28		KB-11944-30	
25 mm	250 mm	150 psi	KB-11944-47		KB-11944-46		KB-11944-48	
35 mm	250 mm	150 psi	KB-11944-62		KB-11944-61		KB-11944-63	
50 mm	250 mm	75 psi	KB-11944-71		KB-11944-70		KB-11944-72	

Specifications

Materials	EZ columns	EZ SolventPlus columns
Column	Borosilicate glass	Borosilicate glass
Endpiece & plunger	PTFE	PTFE
Threaded ends	PEEK	PEEK
Frit (bed support)	PE	PTFE
O-ring	FKM/FPM	Chemraz
Adjusting nut	Acetal	Acetal
Retaining nut	Acetal	Acetal
Connection cap	Glass-filled PP	ETFE
Fitting nuts	Glass-filled PP	ETFE

Accessories

KB-11942-06 **Connection tubing assembly** for EZ columns. Comes with two (2 m and 0.5 m L)
1⁄16" OD PTFE tubing with ¼-28 UNF PP fitting at one end plus a Click-N-Seal® 10-32 PEEK conical fitting

KB-11942-65 **Connection tubing assembly** for EZ SolventPlus columns. Comes with two (2 m and 0.5 m L)
1⁄16" OD PTFE tubing with ¼-28 UNF ETFE fitting at one end plus a Click-N-Seal 10-32 PEEK conical fitting

Kinesis® KX Microwave Reaction Vials

Decrease reaction times in organic synthesis

– Resealable silicone/PTFE septa allow multiple reagent additions and reaction monitoring
– Manufactured from contamination-free Type I borosilicate glass—will not taint mixtures

Use these reaction vials in the microwave to speed up the reaction time in organic synthesis, especially when using palladium (Pd), platinum (Pt), or other metal catalysts. These vials allow the reactions to be performed at temperatures above the boiling point of the solvents used. Heavy-walled glass is highly resistant to both chemicals and thermal shock. Order stirrer bars to use with vials to achieve a homogeneous mixture, ensuring reactions are completed in the minimum time. Includes 20-mm crimp caps.

Volume	Bottom style	Temperature range	Max pressure	Microwave reaction vials			Stirrer bars		
				Cat. no.	Qty/pk	Price/pk	Cat. no.	Qty/pk	Price/pk
0.5 to 2 mL	Conical	104 to 572°F (40 to 300°C)	435 psi (30 bar)	KB-98720-20	100		KB-98720-25	25	
2 to 5 mL	Rounded			KB-98720-21	100		KB-98720-26	25	
10 to 20 mL	Rounded	104 to 482°F (40 to 250°C)	290 psi (20 bar)	KB-98720-22	50		KB-98720-27	5	

KB-98720-23 Crimp caps; silicone/PTFE septum, 20 mm. Pack of 1000
KB-98720-24 Crimp caps; silicone/PTFE septum, 20 mm. Pack of 100

Kinesis® KX Nonsterile Syringe Filters

Maximize product recovery, reliability, and reproducibility

– Solvent-resistant polypropylene (PP) housing with nominal extractables
– Leak-free Luer-Lok® and Luer-slip connections for easy, quick and tight connections to tubing, syringes, or needles
– Resealable storage container prevents contamination after opening

Color coded for easy identification and minimal error

Kinesis

Go online for our comprehensive offering of Kinesis KX syringe filters and membranes.

Specifications

Diameter	Sample volume	Retention volume	Burst pressure	Filter area (cm^2)	Housing material	Connection (inlet/outlet)
4 mm	2 mL	8 µL	75 psi	0.1	PP	Female Luer-Lok® / male Luer-slip
13 mm	6 mL	30 µL	100 psi	0.65		
25 mm	70 mL	120 µL	100 psi	3.9		
30 mm	90 mL	140 µL	100 psi	4.5		

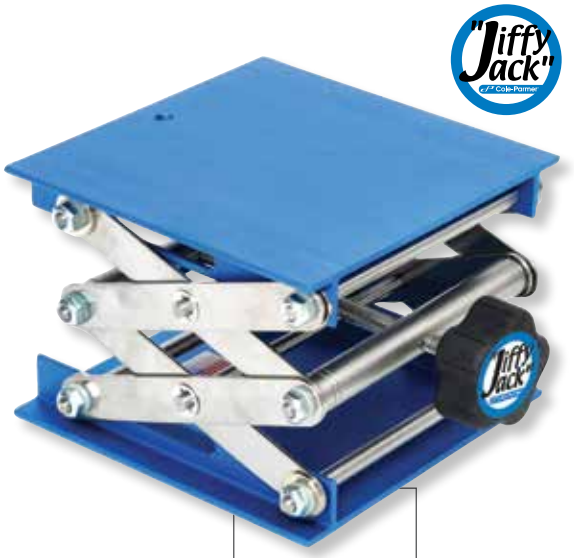
Diameter (mm)	Pore size (µm)	Qty/pk	Mixed cellulose ester (MCE)		Nylon		PES		PTFE		PVDF	
			Cat. no.	Price	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
4	0.22	100	KB-12915-53		KB-12915-76		KB-12916-06		KB-12916-56		KB-12916-98	
		1000	KB-12915-54		KB-12915-77		KB-12916-07		KB-12916-57		KB-12916-99	
	0.45	100	KB-12915-55		KB-12915-78		KB-12916-08		KB-12916-58		KB-12917-00	
		1000	KB-12915-56		KB-12915-79		KB-12916-09		KB-12916-59		KB-12917-01	
13	0.22	100	KB-12915-57		KB-12915-80		KB-12916-10		KB-12916-60		KB-12917-02	
		1000	KB-12915-58		KB-12915-81		KB-12916-11		KB-12916-61		KB-12917-03	
	0.45	100	KB-12915-60		KB-12915-83		KB-12916-13		KB-12916-63		KB-12917-05	
		1000	KB-12915-61		KB-12915-84		KB-12916-14		KB-12916-64		KB-12917-06	
25	0.22	100	KB-12915-63		KB-12915-87		KB-12916-16		KB-12916-66		KB-12917-08	
		500	KB-12915-64		KB-12915-88		KB-12916-17		KB-12916-67		KB-12917-09	
	0.45	100	KB-12915-66		KB-12915-90		KB-12916-19		KB-12916-69		KB-12917-11	
		500	KB-12915-67		KB-12915-91		KB-12916-20		KB-12916-70		KB-12917-12	
30	0.22	100	KB-12915-70		KB-12915-99		KB-12916-22		KB-12916-74		KB-12917-17	
		500	KB-12915-71		KB-12916-00		KB-12916-23		KB-12916-75		KB-12917-18	
	0.45	100	KB-12915-73		KB-12916-02		KB-12916-25		KB-12916-77		KB-12917-20	
		500	KB-12915-74		KB-12916-03		KB-12916-26		KB-12916-78		KB-12917-21	

Other materials available: Cellulose acetate, regenerated cellulose, glass fiber, hydrophilic PP, PP, hydrophilic PTFE, hydrophilic PVDF, and PET.
Note: All 13, 25, and 30 mm filters are available with an integral pre-filter (1 µm glass fibre); ideal for solutions with a high viscosity like oils or high particulate samples.

Cole-Parmer® Jiffy-Jack® Lab Jacks

Safely position sample or equipment

- Easily position equipment or sample with a twist of the knob
- Rugged construction stands up to heavy loads
- Add optional support rod for probes, clamps, or other items



Model 08057-20 supports up to 132 lb (60 kg).

Top plate dimensions	Open height	Closed height	Max support static load	Catalog number	Price
Plastic lab jack					
8" x 8" (20.3 x 20.3 cm)	12" (30.5 cm)	3" (7.6 cm)	15 lb (6 kg)	KB-08055-50	
Aluminum lab jacks					
4" x 4" (10.2 x 10.2 cm)	5" (12.7 cm)	2½" (6.4 cm)	66 lb (30 kg)	KB-08057-10	
6" x 6" (15.2 x 15.2 cm)	9¾" (24.8 cm)	3" (7.6 cm)	132 lb (60 kg)	KB-08057-20	
8" x 8" (20.3 x 20.3 cm)	13" (33.0 cm)	3½" (8.9 cm)	176 lb (80 kg)	KB-08057-30	
10" x 10" (25.4 x 25.4 cm)	13" (33.0 cm)	3½" (8.9 cm)	198 lb (90 kg)	KB-08057-40	
Stainless steel heavy-duty lab jacks					
3" x 3" (7.6 x 7.6 cm)	5" (12.7 cm)	2½" (6.4 cm)	20 lb (9.0 kg)	KB-08057-12	
4" x 4" (10.2 x 10.2 cm)	5" (12.7 cm)	2½" (6.4 cm)	30 lb (13.6 kg)	KB-08057-14	
6" x 6" (15.2 x 15.2 cm)	9¾" (24.8 cm)	3" (7.6 cm)	35 lb (15.8 kg)	KB-08057-16	
8" x 8" (20.3 x 20.3 cm)	13" (33.0 cm)	3½" (8.9 cm)	55 lb (25.0 kg)	KB-08057-18	
10" x 10" (25.4 x 25.4 cm)	13" (33.0 cm)	3½" (8.9 cm)	80 lb (36.3 kg)	KB-08057-22	
12" x 12" (30.5 x 30.5 cm)	19½" (49.5 cm)	4" (10.2 cm)	150 lb (68.0 kg)	KB-08057-24	
16" x 16" (40.6 x 40.6 cm)	19½" (49.5 cm)	4" (10.2 cm)	180 lb (81.6 kg)	KB-08057-26	

KB-08057-50 **Ratchet tool** adds extra leverage to models 08057-24 and -26

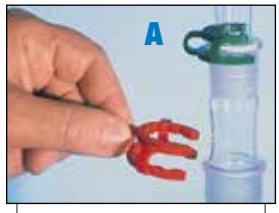
KB-08057-52 **Support rod kit** allows you to mount a 17" (43.2 cm) L vertical support rod to models 08057-16, -18, -22, -24, and -26

Keck® Connectors, Clamps, and Clips

Keep connections together

A. Keck Original Standard Taper Clips

Economical standard taper clips securely hold conical joints under pressure without damaging glass. The polyoxymethylene (POM) acetal resin clips are safe to 302°F (150°C). Resistant to concentrated alkalies and dilute acids (not resistant to halogen gases and concentrated acids).



Plastic taper clips are easy to attach and remove.

Joint size no.	Color	Qty/pk	Catalog number	Price/pk
10	Green	12	KB-06839-90	
12	Violet		KB-06839-95	
14	Yellow		KB-06840-05	
19	Blue	12	KB-06840-10	
24	Green		KB-06840-15	
29	Red		KB-06840-20	
34	Orange	12	KB-06840-25	
40	Yellow		KB-06840-30	
45	Brown		KB-06840-35	

KB-06840-00 **Standard taper clip assortment pack.** Six each of sizes 14, 19, 24, and 29 (24 total)

KB-06840-50 **Standard taper clip assortment pack.** Three each of all nine sizes in table above (27 total)

B. Keck Metal Standard Taper Clips

Durable nickel-plated steel taper clips securely hold conical joints under pressure. Clips offer superior chemical and temperature resistance—withstand temperatures to 932°F (500°C).

Joint size no.	Qty/pk	Cat. no.	Price/pk
14	6	KB-06836-05	
19		KB-06836-10	
24		KB-06836-15	
29		KB-06836-20	

C. Keck Ball-Joint Clips

Secure ball and socket joints—no locking screw required. Polyoxymethylene (POM) acetal resin clips are safe to 302°F (150°C). Resistant to concentrated alkalies and dilute acids (not resistant to halogen gases or concentrated acids).

Joint size no.	Color	Qty/pk	Catalog number	Price/pk
13	Violet	12	KB-06838-10	
19	Blue		KB-06838-15	
29	Red		KB-06838-20	
35	Orange		KB-06838-25	

Wait!
There's More at ColeParmer.com
Find all the product specs you need!

Cole-Parmer® Cleaning Products

Easily clean glass, metal, plastic, rubber, and other hard materials

- Safe and effective cleaning products
- Highly concentrated, aqueous solutions are free-rinsing
- Meet USDA guidelines for incidental contact with food processing systems
- Do not contain CFCs, phosphates, silicates, halogens, or phenols

Cole-Parmer®

Cleaner	Type	Cleaning applications	Dilution	pH	Packaging	Cat. no.	Price/ea	Cat. no.	Qty/cs	Price/cs
Micro-90®	Ionic, nonionic, USDA authorized	Manual or ultrasonic; removes most biological materials; cleans glass, most metals, plastic, and rubber†	1:100 to 2:100	9.5	0.26 gal. (1 L)	KB-18100-05		KB-18100-04	12	
					1 gal. (4 L)	—	—	KB-18100-11	4	
					5 gal. (18.9 L)	—	—	KB-18100-20	1	
					55-gal. drum (208 L)	KB-18100-30		—	—	—
Zymit®	Enzymatic, USDA authorized	Machine, manual, or ultrasonic; dissolves protein and starch-based soils; may use for delicate materials	1:100	7.5	0.26 gal. (1 L)	KB-18101-30		KB-18101-20	12	
LF2100™	Low-sudsing, anionic, nonionic, amphoteric, USDA authorized	Automatic washers, high-pressure and high agitation applications†	1:100	9.7	0.26 gal. (1 L)	KB-18102-00		KB-18102-10	12	
					5.3 gal. (20 L)	KB-18102-30		—	—	—
Surface-Cleanse/930®	Nonionic, USDA authorized	Cleans grease, petroleum, oils from glass, aluminum, lead, zinc, and plastic without surface damage	1:200	7.0	0.26 gal. (1 L)	KB-18103-00		KB-18103-10	12	
					5.3 gal. (20 L)	KB-18103-30		—	—	—
Micro-A07®	Citric acid, nonionic, USDA authorized	Removes millstone, hard water scale, rust, mineral deposits, and other inorganic soils from filter membranes, labware, and industrial equipment	1:100 to 2:100	2.5	0.26 gal. (1 L)	KB-18104-00		KB-18104-01	12	
					5.3 gal. (20 L)	KB-18104-30		—	—	—

†Do not use on zinc, magnesium, or aluminum.

DisCide® ULTRA Disinfecting Towelettes and Sprays

No wasting time—works in just one minute!

- No mixing or measuring—solutions are ready to use
- Eliminate separate towel requirements with towelettes

Description	Packaging	Qty/cs	Catalog number	Price
Towelettes, 6" x 6¾" (15.2 x 17.1 cm)	Canister of 160	12	KB-86306-03	
Towelettes, 10½" x 10½" (26.7 x 26.7 cm)	Canister of 60	12	KB-86306-05	
Spray bottle	1 quart bottle	12	KB-86306-13	
Refill bottle	1 gallon bottle	4	KB-86306-15	

Need more cleaning products for your lab and personnel?
See our full offering at ColeParmer.com/cleaning.

Bacdown® Hand Soap

Won't dry your skin

- Formulated specifically for those washing frequently to minimize dry, chapped skin
- Protects against gram-negative and gram-positive bacteria as well as yeast and fungi

Packaging	Catalog number	Price/ea	Catalog number	Qty/cs	Price/cs
16 oz (500 mL)	KB-86115-02		KB-86115-00	12	
0.26 gal. (1 L)	KB-86115-06		KB-86115-04	12	
1.32 gal. (5 L)	KB-86115-10		—	—	—

CONFLIKT® Detergent Disinfectant

No need to dilute—ready to use

- Don't worry about contaminants—easily and effectively decontaminates surfaces
- Ammonium-based detergent disinfects and cleans hard surfaces

This prediluted detergent is effective against a wide range of viruses, bacteria, pathogenic fungi, mold, and mildew. USDA approved and EPA registered. Comes in a 32-oz spray bottle and a 1-gal. refill.

Packaging	Catalog number	Price/ea	Catalog number	Qty/cs	Price/cs
32 oz (946 mL)	KB-86115-40		KB-86115-38	6	
1 gal. (3.7 L)	KB-86115-44		KB-86115-42	4	

Oakton® Waterproof EcoTestr™ Conductivity Pocket Testers

Durable and easy to use

- View measurements clearly on large, dual-line LCD
- IP67-rated housing is waterproof, dustproof, and floats in water
- Leakproof cap with fill line functions as a sample/calibration and hydrating cup
- Secure—attach a lanyard to prevent losing or dropping in the field

35634-08

OAKTON

Model		EC1	TDS1	Salt1
Catalog number		KB-35634-06	KB-35634-08	KB-35634-12
Range	Conductivity	0.1 to 200.0 µS/cm, 0 to 2000 µS/cm, 0.00 to 20.00 mS/cm	—	—
	TDS	—	0.0 to 100.0 ppm, 0 to 1000 ppm, 0.00 to 10.00 ppt	—
	Salinity	—	—	0.00 to 10.00 ppt
	Temperature	32.0 to 122.0°F (0.0 to 50.0°C)		
Accuracy	Conductivity	±1% full-scale ±1 digit	—	—
	TDS	—	±1% full-scale	—
	Salinity	—	—	±1% full-scale
	Temperature	±0.9°F (0.5°C)	±0.9°F (0.5°C)	±0.9°F (0.5°C)
Temp. compensation		Automatic, 32 to 122°F (0 to 50°C)		
Calibration		1 or 2 points		1 point
Power		Four AAA batteries (included), 400 hours of continuous use		
Price				

Oakton® CTSTestr™ 50 Pocket Testers

Get benchtop accuracy in the field

- Measure conductivity, TDS, and salinity with ±1% FS accuracy
- Save money—replaceable sensor lets you use tester body over and over again
- Set up and calibrate quickly with easy-to-navigate interface
- Selectable TDS factor adds versatility
- Leakproof, stabilizing cap—use to calibrate, stand upright, and store sensor
- Waterproof IP67 rated and factory calibrated

OAKTON

ISO 9001:2008 CERTIFIED SUPPLIER

Model		CTSTestr 50P (pin-style sensor)	CTSTestr 50C (cup-style sensor)
Catalog number		KB-35634-55	KB-35634-65
Range	Conductivity	0.0 to 200.0 µS, 200 to 2000 µS; 2.00 to 20.00 mS	
	TDS	0.0 to 100.0 ppm, 100 to 1000 ppm; 0.10 to 10.00 ppt (TDS factor 0.5)	
	Salinity	0.00 to 10.00 ppt	
	Temperature	32 to 140°F (0 to 60°C)	
Accuracy		±1% full-scale (conductivity, TDS, and salinity)	
Calibration		Up to 3 points (conductivity and TDS); 1 point (salinity)	
TDS factor		0.40 to 1.00 (selectable)	
Temp. compensation		Automatic	
Power		Four AAA 1.5 V batteries (included)	
Price			

Oakton® Waterproof EcoTestr™ CTS Pocket Meter

Better results—easier and faster

- Conductivity, TDS, and salinity combined into one meter
- Large dual-line display shows parameter and temperature readings simultaneously
- Easier, more intuitive interface and indicators for battery life, readiness, and calibration
- Use redesigned cap as sample cup and as a stabilizing base to stand the meter upright
- Convenient—attach a lanyard to prevent losing or dropping in the field

"Easy to use."

OAKTON

ISO 9001:2008 CERTIFIED SUPPLIER

Description		EcoTestr (CTS) Con/TDS/Salinity
Catalog number		KB-35462-11
Range	Conductivity	0.00 to 20.00 mS/cm
	TDS	0.00 to 20.00 ppt (with TDS factor 1.0)
	Salinity	0.0 to 10.0 ppt
	Temperature	32.0 to 122.0°F (0.0 to 50.0°C)
Resolution	Conductivity	10 µS, 0.1 mS
	TDS	10 ppm, 0.1 ppt
	Salinity	0.1 ppt
	Temperature	0.1°F (0.1°C)
Accuracy	Conductivity	±2% full-scale ±1 LSD
	TDS	±2% full-scale ±1 LSD
	Salinity	±2% full-scale ±1 LSD
	Temperature	±0.9°F (0.5°C) + 1 LSD
Temperature compensation		Automatic
Calibration		Single point
Power		Four 1.5 V miniature batteries (included)
Price		

Oakton® Waterproof CTSTestr™ 5 Pocket Tester

Save money by replacing sensor, not tester!

- Replaceable sensor lets you use the tester body over and over again
- Two-color backlight indicates operating mode—blue for measurement, green for calibration
- Rugged IP67-rated housing is waterproof, dustproof, and floats in water when sensor cap is on
- Leakproof cap with fill line functions as a sample/calibration and hydrating cup

OAKTON

Model		CTS5
Catalog number		KB-35634-42
Range	Conductivity	0.1 to 200.0 µS/cm, 0 to 2000 µS/cm, 0.00 to 20.00 mS/cm
	TDS	0.0 to 100.0 ppm, 0 to 1000 ppm, 0.00 to 10.00 ppt
	Salinity	0.00 to 10.00 ppt
	Temperature	32.0 to 122.0°F (0.0 to 50.0°C)
Accuracy	Conductivity	±1% full-scale
	TDS	±1% full-scale
	Salinity	±1% full-scale
	Temperature	±0.9°F (±0.5°C)
Temp. compensation		Automatic, 32 to 122°F (0 to 50°C)
Calibration		1 to 3 points, automatic recognition of standards
Power		Four AAA batteries (included)
Price		

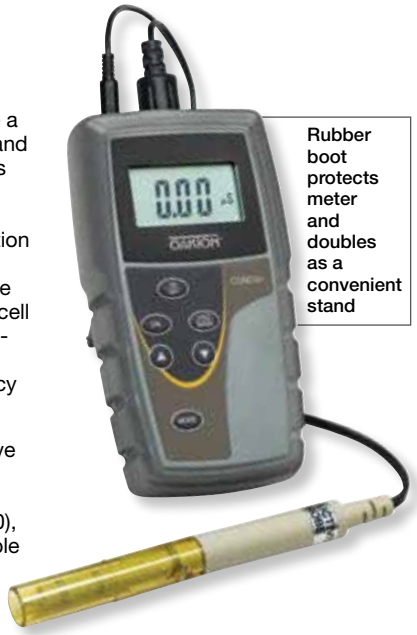
Oakton® CON 6+ and TDS 6+ Meter Kits

Easy, push-button calibration

- High accuracy at an affordable price, ±1% across full scale
- Five auto-ranging measurement modes—up to 200.0 mS (200.0 ppt)
- Get more accurate calibration for all five ranges
- Get temperature readings at the touch of a button

Additional features include a convenient Hold function and auto-off function that shuts meter off after 20 minutes of nonuse. Programming functions allow customization of meter for temperature compensation, temperature coefficient, normalization, cell constant, and conductivity-to-TDS conversion factor (TDS 6+) for better accuracy in varying applications.

What's included: protective rubber boot with stand, conductivity/ TDS/ temperature probe (K = 1.0), calibration solutions, sample bottles, rinse bottle, hard plastic carrying case, and four AAA batteries.



Rubber boot protects meter and doubles as a convenient stand

OAKTON®

Save time, save money!

Choose Precalibrated
Includes a data-rich, ISO 17025-compliant certificate!
Precalibrated by INNOCAL® INNOVATIVE CALIBRATION SOLUTIONS

ISO 9001:2008 CERTIFIED SUPPLIER CE 3 YEAR WARRANTY Meter only

Description		CON 6+ kit	Precalibrated CON 6+ kit	TDS 6+ kit	Precalibrated TDS 6+ kit
Catalog number		KB-35604-04	KB-35604-05	KB-35604-24	KB-35604-25
Range	Conductivity	0 to 20.00, 0 to 200.0, 0 to 2000 µS; 0 to 20.00, 0 to 200.0 mS		—	
	TDS	—		0 to 10.00, 10 to 100.0, 100 to 1000 ppm; 1.00 to 10.00, 10.0 to 100.0, up to 200.0 ppt†	
	Temperature	–10.0 to 110.0°C		–10.0 to 110.0°C	
Accuracy	Conductivity	±1% full-scale		—	
	Temperature	±0.5°C		±0.5°C	
Temp. compensation		Automatic or manual from 0.0 to 50.0°C			
Cell constant (K)		Selectable, 0.1, 1, and 10			
Conductivity-to-TDS conversion factor		—		0.4 to 1.00 adjustable	
Calibration points		5 maximum, one per range			
Power		Four AAA batteries (included)			
Price					

†With K = 10 probe

Accessories

KB-35606-53 **Conductivity probe,** K = 0.1
KB-35606-55 **Replacement conductivity probe,** K = 1.0
KB-35606-57 **Conductivity probe,** K = 10
KB-09376-00 **Replacement batteries,** AAA. Pk of 12
KB-17090-30 **NIST-traceable calibration** with data for conductivity meters

Oakton® Traceable® Conductivity Solutions, NIST-Traceable Reference Materials

Trust your standards—high accuracy

- Up to ±0.25% accuracy verified by an ISO Guide 34 and ISO 17025 accredited lab

A. Batch-Tested Bottles, 500 mL
- Easy calibration with included instructions and temperature compensation chart
- Includes NIST-traceable certificate and batch testing information

B. Individually Tested Bottles, 500 mL
- Each bottle individually calibrated—NIST-traceable certificate included with serial number and testing information
- Easy calibration with step-by-step instructions and included temperature compensation chart

C. One-Shot® Vials, pack of six 100 mL vials
- Fresh solution each time you calibrate—single-use vials eliminate contamination
- Grab it and go—convenient for field use; calibrate right in vial
- Includes NIST-traceable calibration report and temperature compensation chart

OAKTON®

Conductivity (µS)	Resistivity (MΩ)	TDS (ppm)	Catalog number	Price
A. Batch tested, one 500 mL bottle				
1	1	0.66	KB-00652-20	
5	0.2	3.3	KB-00652-22	
10	0.1	6.6	KB-00652-24	
100	0.01	66	KB-00652-26	
1000	0.001	666	KB-00652-28	
1413	0.00071	933	KB-00652-30	
10,000	0.0001	6666	KB-00652-32	
100,000	0.00001	66,666	KB-00652-34	
150,000	0.0000066	100,000	KB-00652-53	
200,000	0.000005	133,333	KB-00652-55	
B. Individually tested, one 500 mL bottle				
1	1	0.66	KB-00652-40	
5	0.2	3.3	KB-00652-42	
10	0.1	6.6	KB-00652-44	
100	0.01	66	KB-00652-46	
1000	0.001	666	KB-00652-48	
1413	0.00071	933	KB-00652-50	
10,000	0.0001	6666	KB-00652-52	
100,000	0.00001	66,666	KB-00652-54	
150,000	0.0000066	100,000	KB-00652-56	
200,000	0.000005	133,333	KB-00652-58	
C. One-Shot®, pack of six 100 mL vials				
5	0.2	3.3	KB-00652-60	
10	0.1	6.6	KB-00652-62	
100	0.01	66	KB-00652-64	
1000	0.001	666	KB-00652-66	
1413	0.00071	933	KB-00652-68	
10,000	0.0001	6666	KB-00652-70	
100,000	0.00001	66,666	KB-00652-72	
150,000	0.0000066	100,000	KB-00652-76	
200,000	0.000005	133,333	KB-00652-78	
Assortment†	—	—	KB-00652-74	

†Assortment has one 100-mL vial each of 10, 100, 1000, 1413, 10,000, and 100,000 µS.

Cole-Parmer® Disposable Lab Containers, PPCO

No more wasted space—containers stack easily

- Durable for longer use—stand up to boiling, freezing, and most chemicals
- Know what's inside—translucent containers come with tight-fitting lids

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Cole-Parmer®

Capacity, mL (oz)	Catalog number	Qty/pk	Price/pk
120 (4)	KB-06727-00	250	
240 (8)	KB-06727-10	250	
480 (16)	KB-06727-20	100	
960 (32)	KB-06727-30	100	
2000 (64)	KB-06727-35	50	
2500 (83)	KB-06727-42	25	
5000 (170)	KB-06727-50	25	

Bain Marie Containers, HDPE

Be confident lid is tight

- Optional snap-tight lids feature positive lock for tight seal
- Can be frozen or chemically sterilized
- Easy carrying grip handles
- NSF certified; FDA-compliant

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20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

NSF

Capacity L (qt)	Dimensions (H x OD) in.	Dimensions (H x OD) cm	Catalog number	Qty/pk	Price/pk
2 (2)	4½ x 7	11.4 x 17.8	KB-63530-00	12	
4 (4)	7½ x 7	19.1 x 17.8	KB-63530-02		
6 (6)	8 x 8¾	20.3 x 22.2	KB-63530-04		
8 (8)	10 x 8¾	25.4 x 22.2	KB-63530-06	12	
12 (12)	12 x 10	30.5 x 25.4	KB-63530-08		
16 (16)	9½ x 12	24.1 x 30.5	KB-63530-10		
20 (20)	13½ x 12	34.3 x 30.5	KB-63530-12	6	
24 (24)	15 x 12	38.1 x 30.5	KB-63530-14		
32 (32)	12 x 15½	30.5 x 39.4	KB-63530-16		
40 (40)	15½ x 15½	39.4 x 39.4	KB-63530-18		
Snap-tight, positive-lock lids					
For 2- and 4-L containers			KB-63530-50	12	
For 6- and 8-L containers			KB-63530-51		
For 12-L container			KB-63530-52		
For 16-, 20-, 24-L containers			KB-63530-53	6	
For 32- and 40-L containers			KB-63530-54		

Wide-Mouth Sample Containers, PP

Mix and store in one vessel

- Easily attach to blenders for in-container mixing
- Models 06101-31 and -40 fit blenders with Mason jar threads
- Durable for general storage—chemical-resistant polypropylene
- Autoclavable

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity, mL (oz)	Cap size	Catalog number	Qty/pk	Price/pk
30 (1)	43 mm	KB-06101-11	12	
60 (2)	53 mm	KB-06101-21		
120 (4)	70 mm	KB-06101-31		
240 (8)	89 mm	KB-06101-40	6	
480 (16)	89 mm	KB-06101-50		
960 (32)	120 mm	KB-06101-60		
1190 (40)	120 mm	KB-06101-70		

Graduated Sample Containers, PP

Graduated for easier sampling

- Durable design—translucent, unbreakable, and chemical resistant
- Sterile containers are individually wrapped

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15% off on 30 to 119
10% off on 6 to 29 packs or cases

STERILE

Capacity, mL (oz)	Description	Catalog number	Qty/pk	Price/pk
118 (4)	Sterile, no tab	KB-06049-40	100	
118 (4)	Nonsterile with white tab	KB-06049-50	500	

Hinged-Lid Sample Containers, PP

Stop losing lids

- Attached lid is always close at hand
- Won't leak or spill when closed
- FDA-compliant
- Autoclavable

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20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity mL (oz)	Dimensions (H x OD) in.	Dimensions (H x OD) cm	Catalog number	Qty/pk	Price/pk
7.5 (¼)	⅝ x 1½	1.6 x 3.8	KB-66098-00	2500	
15 (½)	¾ x 1½	1.9 x 3.8	KB-66098-10	2000	
22.5 (¾)	1 x 1½	2.5 x 3.8	KB-66098-20	1500	
30 (1)	1½ x 1½	3.8 x 3.8	KB-66098-30	1300	
60 (2)	1⅝ x 2	4.1 x 5.1	KB-66098-40	750	
120 (4)	3⅜ x 2	8.1 x 5.1	KB-66098-50	300	

KB-06098-02 **Labels** for containers 66098-40 and -50. Pack of 1000

Qorpak® Kaptclean® Glass Sample Jars

No precleaning required

- Precleaned for semivolatiles, pesticides, PCBs, and metals
- Include chemical-resistant PTFE-lined screw cap

Buy More...Save More!
15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Capacity mL (oz)	Neck size	Catalog number	Qty/ cs	Price/ cs
120 (4)	53 mm	KB-34605-30	24	
240 (8)	70 mm	KB-34605-55		
480 (16)	89 mm	KB-34605-60	12	
960 (32)	89 mm	KB-34605-70		

Qorpak® Safety-Coated Sample Jars

Will not shatter

- Reduce breakage with safety-coated design
- Chemical-resistant, PTFE-lined caps for tight seal

Buy More...Save More!
15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Style	Capacity mL (oz)	Neck size	Catalog number	Qty/ cs	Price/ cs
Straight sided	260 (8)	70 mm	KB-34604-10	24	
	480 (16)		KB-34604-20	24	
	960 (32)		KB-34604-30	12	
Standard rounded	1920 (64)	83 mm	KB-34604-40	6	

Thermo Scientific™ Nalgene™ Straight-Side, Wide-Mouth Containers, PC and PP

Stack easily to maximize space

- Easy viewing of samples for simple identification
- PP screw enclosures keep a tight seal
- Autoclavable (autoclave pieces separately)

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20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity mL (oz)	Cap size (mm)	Catalog number	Qty/ pk	Price/ pk
Polycarbonate (PC) containers				
30 (1)	43	KB-06760-50	4	
60 (2)	53	KB-06760-52		
125 (4)	70	KB-06760-54		
250 (8)	70	KB-06760-56	4	
500 (16)	120	KB-06760-58		
1000 (32)	120	KB-06760-60		
Polypropylene (PP) containers				
15 (½)	38	KB-06758-48	12	
30 (1)	43	KB-06758-50		
60 (2)	53	KB-06758-52		
125 (4)	70	KB-06758-54		
250 (8)	70	KB-06758-56	6	
500 (16)	120	KB-06758-58		
1000 (32)	120	KB-06758-60		

WARNING: Reproductive harm - www.P65Warnings.ca.gov

Rectangular Mobile Tubs, LDPE

No more strained backs

- Roll even heavy loads around with ease on rugged caster frame and wheels
- Easy clean-up—remove tub and wheels for washing
- Include polyethylene cover
- NSF certified and USDA approved

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity L (gal.)	Dimensions (L x W x H†)		Catalog number	Price/ ea*
	in.	cm		
60 (15)	32⅜ x 15⅜ x 12¼	82.2 x 39.1 x 31.1	KB-06745-20	
106 (28)	26¾ x 20½ x 16¾	67.9 x 52.1 x 42.5	KB-06745-40	
204 (54)	35½ x 26 x 20¼	90.2 x 66.0 x 51.4	KB-06745-60	

*One each qualifies as one pack for discount savings.
†Height of tub given. Total height (including base) for models 06745-20 and -40 is 30½" (77.5 cm); for 06745-60 is 32¼" (81.9 cm).

Accessories

KB-60104-02 **HDPE bag**, 24" x 33" (61 x 84 cm)
KB-60104-04 **HDPE bag,** 30" x 37" (76 x 94 cm)
KB-60104-06 **HDPE bag,** 33" x 40" (84 x 102 cm)

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Browse 100,000+ products plus find Technical Resources to help you choose

Texwipe® Cleanroom Swabs

Meet your validation requirements

– Ideal for cleaning small surface areas and for cleaning validation

Sealed swab handles are thermo-formed. Swabs with ESD handles eliminate damage from static electricity and are effective in all humidities.

Fabric Swabs have excellent chemical compatibility. Sealed swabs contain low chloride and other ionic contaminants.

Foam Swabs have sealed handles and are constructed from 100 pores-per-inch reticulated urethane foam—ideal for solvent dispersion and low-viscosity adhesives. Sealed foam swabs are perfect for removal of solvents and fluxes. Cleanfoam® swabs feature low levels of nonvolatile residue, particle generation, and are constructed of open-cell polyurethane foam for excellent solvent capacity.

Swab tip	Tip description	Handle description	Tip length	Swab length	Compliance	Qty/pk	Catalog number	Price/pk
Fabric swabs								
	Knit polyester	Sealed polypropylene	0.39" (1 cm)	2.75" (7 cm)	—	50	KB-33676-01	
	Knit polyester	Sealed polypropylene	0.66" (1.7 cm)	6.39" (16.2 cm)	—	100	KB-33676-07	
	Knit polyester	Sealed polypropylene	0.16" (0.4 cm)	2.76" (7 cm)	ISO Class 3	500	KB-33677-58	
	Knit polyester	Sealed polypropylene	0.27" (0.7 cm)	6.39" (16.2 cm)	ISO Class 3	100	KB-33677-60	
	Knit polyester	Sealed polypropylene	0.5" (1.3 cm)	5.00" (12.7 cm)	ISO Class 3	100	KB-33677-62	
	Knit polyester	Sealed polypropylene	0.5" (1.3 cm)	5.00" (12.7 cm)	—	100	KB-33677-63	
	Knit polyester	Sealed polypropylene	1.01" (2.6 cm)	5.02" (12.8 cm)	—	20	KB-33677-64	
	Knit polyester	Sealed polypropylene	1.01" (2.6 cm)	5.02" (12.8 cm)	—	20	KB-33677-65	
Foam swabs								
	Foam bud	Hardwood	1.10" (2.8 cm)	6.06" (15.4 cm)	—	500	KB-33676-03	
	Cleanfoam	Polypropylene	0.13" (0.3 cm)	2.75" (7 cm)	ISO Class 5	500	KB-33677-50	
	Flexible cleanfoam	Polypropylene	0.13" (0.3 cm)	2.67" (6.8 cm)	ISO Class 5	500	KB-33677-52	
	Cleanfoam	Polypropylene	0.25" (0.6 cm)	6.37" (16.2 cm)	ISO Class 5	500	KB-33677-55	
	Circular foam	Sealed polypropylene	0.81" (2.1 cm)	5.20" (13.2 cm)	ISO Class 5	100	KB-33677-56	
	Cleanfoam	ESD	0.14" (0.4 cm)	3.50" (8.9 cm)	ISO Class 5	500	KB-33677-72	
	Cleanfoam	ESD	0.15" (0.4 cm)	2.75" (7 cm)	ISO Class 5	500	KB-33677-74	

Kimberly-Clark® Critical Task Wipes

Low-lint, absorbent, soft, and nonabrasive

– Won't scratch delicate surfaces

– Single- and two-ply delicate task wipes are made of a finely textured tissue

– Solvent-resistant Kimtech CL4 wipes are made of a single-ply, nonwoven fabric specially bonded to eliminate surface fibers and trap particles

Description	Compliance	Wipe size	Qty/bx	Box/cs	Catalog number	Price/cs*
Delicate task wipes						
Kimwipes® EX-L, 1 ply	—	4½" x 8½"	280	1	KB-25000-35	
		4½" x 8½"	280	6	KB-25000-37	
		4½" x 8½"	280	60	KB-33670-04	
		15" x 16¾"	140	15	KB-33670-06	
Kaydry® EX-L, 2 ply	—	15" x 16¾"	90	15	KB-33670-10	
Cleanroom wipes						
Kimtech CL4 Cleanroom	ISO Class 4	12" x 12"	100	5	KB-33670-20	

***Discounts:** Save 10% on 10 to 49 cases and 15% on 50 or more cases.

Find even more online! Go to ColeParmer.com to search more than 100,000 products.

Worthington Storage Dewars

Get maximum holding times with superior construction

- Maximum insulation with sealed vacuum space between inner and outer shells and advanced insulation
- Durable, lightweight aluminum construction
- Reduce liquid nitrogen loss with necktube core design
- Move larger capacity Dewars easily with optional roller base

03773-57

03773-51

Capacity (L)	Neck ID	Static holding time†	Evaporation (L/day)†	Outer dim. (H x dia)	Catalog number	Price
4	1 3/16" (3.0 cm)	10 days	0.40	17" x 7 5/8" (43.2 x 19.4 cm)	KB-03773-51	
5	5 5/8" (14.3 cm)	6 days	0.77	17 1/2" x 7 5/8" (43.2 x 19.4 cm)	KB-03773-53	
10	2" (5.1 cm)	45 days	0.22	23 1/2" x 11 3/8" (59.7 x 28.9 cm)	KB-03773-55	
25	2 1/2" (6.4 cm)	109 days	0.23	25 13/16" x 15 5/8" (65.5 x 39.7 cm)	KB-03773-57	
35	2 1/2" (6.4 cm)	152 days	0.23	26 5/16" x 18 13/16" (66.8 x 47.8 cm)	KB-03773-59	
50	2 1/2" (6.4 cm)	122 days	0.41	32 3/8" x 18 13/16" (82.2 x 47.8 cm)	KB-03773-61	

†Static holding times and evaporation rates are nominal.

KB-03773-63 **Dipper** removes 12 mL of liquid nitrogen from 10-, 25-, 35-, and 50-liter Dewars without tipping the flask

KB-03773-70 **Tipping stand** supports the weight of the Dewar while you safely tip the unit. For model 03773-57 only

Insulated Containers

Store samples properly

A. Tabletop Ice Storage Chest has dry ice sublimation rate less than 2.5 lb per day at full 50 lb capacity. Chest is constructed from rugged polyethylene; molded bottom won't scratch tabletop.

B

B. Insulated Field Carrier has efficient, 2 1/4"-thick polyurethane foam insulation core and rugged, double-wall polyethylene construction. Includes carrying handle, hinged lid, and adjustable latches.

C. Large-Capacity Dry Ice Storage Chests contain extra-thick foam plastic insulation core. Six days for 90 lb of dry ice to sublimate to 5 lb in model 03721-02; 10 days for 155 lb in model 03721-00; and 15 days for 215 lb in model 03720-00.

NSF

Key	Capacity		Inside dimensions (L x W x H)		Catalog number	Price
	cu ft	lb	in.	cm		
A	—	—	11 1/2 x 9 3/4 x 9 1/4	29.2 x 24.8 x 23.5	KB-03719-00	
B	—	—	16 5/8 x 10 1/4 x 10 3/4	42.2 x 26.0 x 27.3	KB-03720-20	
C	1.6	90	15 1/4 x 14 x 15 1/4	38.7 x 35.6 x 38.7	KB-03721-02	
	2.5	155	17 3/8 x 16 7/8 x 16 1/2	44.1 x 42.8 x 41.9	KB-03721-00	
	5	215	21 x 13 1/2 x 24	53.3 x 34.3 x 61.0	KB-03720-00	

KB-03721-10 **Dolly** for 03721-00 and -02 containers

KB-03720-10 **Dolly** for 03720-00 container

Lab-Grade Dewar Flasks

Move samples with less spillage

- Weighted base reduces spillage
- Dewars feature low heat conductivity, high vacuum and vented polyethylene stopper for minimal evaporation

Volume (mL)	Dimensions† (in., cm)				Catalog number	Price
	ID	OD	Depth	Ht		
350	2 13/16 (7.2)	3 3/8 (8.6)	4 7/8 (12.4)	6 3/16 (15.7)	KB-03766-10	
665			7 11/16 (19.5)	9 1/2 (24.1)	KB-03766-20	
1000	2 13/16 (7.2)	3 3/8 (8.6)	11 7/8 (30.1)	13 5/16 (33.8)	KB-03766-30	
1900	4 11/16 (11.9)	5 7/8 (14.9)	7 1/2 (19.1)	9 7/8 (25.1)	KB-03767-10	
4300	5 5/8 (14.3)	7 (17.8)	12 (30.5)	14 3/8 (36.6)	KB-03767-20	

†All dimensions are ±0.2".

Cole-Parmer® Transportable Dewar Flasks

Keep lid on tight

- Insulated lid locks in place with two spring clips
- Rugged design features galvanized steel plate with baked enamel finish

Cole-Parmer®

Volume (L)	Dimensions (in., cm)				Catalog number	Price
	ID	OD	Depth	Ht		
1	4 (10.2)	5 7/8 (14.9)	6 5/8 (16.8)	7 5/16 (18.6)	KB-03772-10	
2	5 1/2 (14.0)	6 5/16 (16.0)	6 11/16 (16.9)	8 1/2 (21.6)	KB-03772-20	
4	5 1/2 (14.0)	6 5/16 (16.0)	12 3/16 (31.0)	14 3/8 (36.6)	KB-03772-40	

All-Plastic Dewar Flasks

Implosion proof

- Safe to use with LN_2, dry ice, solvent mixtures, and hot fluids, will not implode
- Double-wall HDPE construction with broad base for reduced spills
- Keep lid in place with metal tabs

Volume (L)	Dimensions (in., cm)				Catalog number	Price
	ID	OD	Depth	Ht		
1	3 3/4 (9.5)	6 1/4 (15.9)	7 1/2 (19.1)	9 (22.9)	KB-06726-20	
2	4 3/4 (12.1)	7 1/4 (18.4)	9 (22.9)	10 1/4 (26.0)	KB-06726-40	
4	5 3/4 (14.6)	9 (22.9)	11 1/4 (28.6)	12 3/4 (32.4)	KB-06726-60	
10	7 3/4 (19.7)	12 (30.5)	15 1/2 (39.4)	18 (45.7)	KB-06726-80	

Argos Technologies® PolarSafe® Fiberboard Cryogenic Storage Boxes and Dividers

Customize to fit your needs

- Snug-fitting lid prevents accidental separation if dropped
- Bottom drain holes allow safe drainage of liquid nitrogen and prevent moisture buildup
- Moisture repellent coating for use in mechanical freezers or liquid nitrogen tanks to –196°C

Cell Dividers

For box model(s)	Vial size	Vials held	Dimensions (L x W x H)	Catalog number	Price/ pk of 12
06755-74	0.5, 1.5, 2 mL	25	2⅝" x 2⅝" x 1¼"	KB-06755-80	
06755-75	50 mL	16	5⅜" x 5⅜" x 2¾"	KB-06755-78	
	15 mL	36		KB-06755-79	
06755-76, 06755-77	50 mL	25	4⅞" x 4⅞" x 1⁵⁄₁₆"	KB-06755-81	
	1.5, 2 mL	49		KB-06755-82	
	1.5, 2 mL	64		KB-06755-83	
	0.5, 1.5, 2.0 mL	81	4⅞" x 4⅞" x 1⁵⁄₁₆"	KB-06755-84	
	0.5, 1.5 mL	100		KB-06755-85	
	0.5, 1.5 mL	144		KB-06755-86	

Storage Boxes

Description	Vial size	Vials held	Dimensions (L x W x H)	Catalog number	Price
Boxes with cell dividers	0.5, 1.5, 2 mL	25	3" x 3" x 2"	KB-06755-71	
	0.5, 1.5, 2 mL	81	5¼" x 5¼" x 2"	KB-06755-72	
	0.5, 1.5 mL	100	5¼" x 5¼" x 2"	KB-06755-73	
Boxes without cell dividers	—	—	3" x 3" x 2"	KB-06755-74	
	—	—	5¾" x 5¾" x 4⅞"	KB-06755-75	
	—	—	5¼" x 5¼" x 2"	KB-06755-76	
	—	—	5¼" x 5¼" x 3"	KB-06755-77	

Argos Technologies® Magne-Box™ Cryo-Boxes

Magnetic closure keeps your samples secure

- Clear lids with colored inserts and numbered grids for easy sample identification
- Polycarbonate design for use from –196 to 121°C
- Slot openings on the bottom of boxes allow for drainage
- Fits in standard-size freezer rack
- Available with 25-, 81-, and 100-place divisions to accommodate 2-mL cryovials; 81-tall boxes accommodate 4- to 5-mL cryovials

No. of tubes	Color	Dimensions (inches)	Catalog number	Qty/ pk	Price/pk
25	Orange	3 x 3 x 2⅛	KB-04200-03	8	
81	Assorted (purple, green, blue, orange)	5¼ x 5¼ x 2⅛	KB-04200-04	4	
81-tall	Blue	5¼ x 5¼ x 3¾	KB-04200-05	4	
100	Green	5¼ x 5¼ x 2⅛	KB-04200-06	4	

Cryo-Glove® Cryogenic Gloves

Keep hands from freezing

- Protect as low as –256°F (–160°C)
- Maximum protection while remaining flexible

Water-Resistant Gloves provide protection in closed systems. A stay-dry lining keeps you warm and comfortable. **Waterproof Gloves** have a nylon exterior and a seamless waterproof lining. Gloves keep you dry and wick moisture away from your hands. **Cryo-Industrial® Gloves** feature a rugged, abrasion- resistant outer shell that protects the glove and provides an excellent grip for heavy-duty applications. Waterproof liner protects against cryogenic splashes while the inner lining wicks moisture from your hands for enhanced comfort.

Note: Do not immerse gloves in liquid nitrogen.

CE

Description	Size	Length	Catalog number	Price per pair
Water-resistant Cryo-Glove gloves				
Wrist	Medium	12" (30 cm)	KB-09113-02	
	Large		KB-09113-04	
Mid-arm	Medium	15" (38 cm)	KB-09113-12	
	Large		KB-09113-14	
	X-large		KB-09113-16	
Elbow	Medium	19" (48 cm)	KB-09113-22	
	Large		KB-09113-24	
	X-large		KB-09113-26	
Waterproof Cryo-Glove gloves				
Mid-arm	Medium	15" (38 cm)	KB-09113-30	
	Large		KB-09113-32	
	X-large		KB-09113-34	
Elbow	Medium	19" (48 cm)	KB-09113-35	
	Large		KB-09113-37	
	X-large		KB-09113-39	
Cryo-Industrial heavy-duty gloves				
Mid-arm	Medium	15" (38 cm)	KB-09113-62	
	Large		KB-09113-64	
	X-large		KB-09113-66	

Argos Technologies® PolarSafe® Dot- and Strip-Style Cryogenic Labels

Same label works for cryogenics, ultralow freezers, and incubators

- Inert polyester with a unique adhesive adheres to glass, plasticware, and most metals
- No need to self-laminate
- Available on rolls for individual labeling or on sheets for use with laser printers

PolarSafe labels withstand conventional freezing (–80°C) but can also be used for most cryogenic storage applications (vapor phase nitrogen storage at –196°C). Choose the size, color, and format to suit your labeling needs. The wide range of sizes allows you to label your whole experiment permanently.

The 3.3 x 1.3 cm strips are ideal for 1.5- and 2-mL tubes; the 2.4 x 1.3 cm strips are good for 0.5- and 1.5-mL tubes; the 6.7 x 2.5 cm strips can be used for racks and boxes; 3.8 x 0.6 cm strips are for microtiter plates, petri dishes, and storage boxes. The dots are suitable for use on cryotubes, glass vials, and microcentrifuge tubes.

Label size (in., cm)	Color	Catalog number	Qty/pk	Price/pk
Dots on rolls				
0.37 (0.95) dia	White	KB-04396-68	1000	
0.37 (0.95) dia	White	KB-04396-69	5000	
0.37 (0.95) dia	Blue	KB-04396-86	1000	
0.37 (0.95) dia	Red	KB-04396-87	1000	
0.37 (0.95) dia	Green	KB-04396-88	1000	
0.37 (0.95) dia	Yellow	KB-04396-89	1000	
0.37 (0.95) dia	Purple	KB-04396-90	1000	
0.37 (0.95) dia	Assorted	KB-04396-85	5000	
0.5 (1.3) dia	White	KB-04396-65	1000	
0.75 (1.9) dia	White	KB-04396-70	1000	
0.75 (1.9) dia	White	KB-04396-71	5000	
Dots on sheets for laser printers				
0.37 (0.95) dia	White	KB-04396-64	3840	
0.5 (1.3) dia	White	KB-04396-84	3840	
0.75 (1.9) dia	White	KB-04396-72	2160	
Strips on rolls				
0.78 W x 0.24 H (2.0 x 0.6)	White	KB-04396-67	1000	
1.3 W x 0.5 H (3.3 x 1.3)	White	KB-04396-66	1000	
1.3 W x 0.5 H (3.3 x 1.3)	Blue	KB-04396-79	1000	
1.3 W x 0.5 H (3.3 x 1.3)	Red	KB-04396-80	1000	
1.3 W x 0.5 H (3.3 x 1.3)	Green	KB-04396-81	1000	
1.3 W x 0.5 H (3.3 x 1.3)	Yellow	KB-04396-82	1000	
1.3 W x 0.5 H (3.3 x 1.3)	Purple	KB-04396-83	1000	
Strips on sheets for laser printers				
0.94 W x 0.5 H (2.4 x 1.3)	White	KB-04396-75	2380	
1.3 W x 0.5 H (3.3 x 1.3)	White	KB-04396-73	1700	
1.3 W x 0.5 H (3.3 x 1.3)	Assorted	KB-04396-74	2125	
1.5 W x 0.24 H (3.8 x 0.6)	White	KB-04396-77	3120	
1.5 W x 0.24 H (3.8 x 0.6)	Assorted	KB-04396-78	3900	
2.6 W x 0.98 H (6.7 x 2.5)	White	KB-04396-76	600	

KB-04396-91 **Label dispenser,** blue acrylic. Accommodates up to 6 rolls of cryogenic dots or strips

⚠**WARNING:** This product can expose you to chemicals including toluene, alpha-methylstyrene, n-methylpyrrolidone, ethyl acrylate, ethylbenzene, ethylene glycol, benzophenone, and phenyl glycidyl ether, which is known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov

Argos Technologies® PolarSafe® EPS Microtube Rack

Secure, stackable freezer storage

- Accommodates microtubes and cryovials up to 2.0 mL
- Snug-fitting lid remains in place during handling
- Grippable indentations allow easy removal from freezer
- Alphanumeric index in base lets you quickly locate tubes

This rack and storage box of expanded polystyrene (EPS) holds 100 microcentrifuge tubes and cryovials up to 2.0 mL. The deep wells and conical bottoms keep both tubes and vials firmly fixed in place, and the lid fits tightly enough to ensure tube safety during handling. Stacking design features circular feet on the bottoms that mate with circular depressions on the lids. Centered finger indentations in the lid and base make it easy to pull out a rack from the freezer, even if the rack is in the middle or bottom of the stack.

Unique finger indentations at both ends allow easy removal from freezer.

Deep wells with conical bottoms securely hold both microtubes and cryovials.

Vial size	Vials held	Dimensions (L x W x H)	Catalog number	Qty/pk	Price/pk
0.5 to 2.0 mL	100	14½" x 4⅛" x 3" (36.8 x 10.5 x 7.6 cm)	KB-06755-01	10	
			KB-06755-02	100	

Argos Technologies® PolarSafe® Stainless Steel Freezer Racks

Get organized for easier retrieval of samples

- Sturdy corrosion-resistant stainless steel construction for long-term use
- Designed to fit all major brands of –80°C ultralow upright and chest freezers

Racks feature handles at both ends to accommodate freezers with right- or left-handed doors. Drawer racks facilitate access to samples without having to remove the entire rack from the freezer. Vertical racks include stainless steel locking rods to secure containers. A wide range is available to accommodate your standard 2" and 3" storage boxes, 96- and 384-well microtiter plates, and 15- and 50-mL centrifuge tubes.

Argos TECHNOLOGIES

Racks for Upright Freezers

For use with	Capacity	Array	Rack dimensions (W x H x D)	Catalog number	Price
2" boxes	9	3 x 3	5½" x 6⅝" x 16⁵⁄₁₆"	KB-04398-12	
	12	3 x 4	5½" x 8⅞" x 16⁵⁄₁₆"	KB-04398-13	
	16	4 x 4	5½" x 8⅞" x 21⅝"	KB-04398-14	
	20	4 x 5	5½" x 11" x 21⅝"	KB-04398-15	
	20	5 x 4	5½" x 8⅞" x 26¾"	KB-04398-17	
	24	4 x 6	5½" x 12⅝" x 21⅝"	KB-04398-16	
	25	5 x 5	5½" x 11" x 26¾"	KB-04398-18	
3" boxes	12	4 x 3	5½" x 9⅜" x 21⅝"	KB-04398-30	
	16	4 x 4	5½" x 12⅝" x 22⅛"	KB-04398-32	
2", 3", 3¾" boxes	16, 12, 10	4 open columns	5½" x 9⅜" x 21⅝"	KB-04398-33	
Standard 96-/ 384-well plates	70 w/lids, 80 w/o lids	—	5½" x 9³⁄₁₆" x 18⅜"	KB-04398-34	
	84 w/lids, 96 w/o lids	—	5½" x 9³⁄₁₆" x 22"	KB-04398-35	
96-well deep well plates	36	6 x 6	5½" x 11" x 22"	KB-04398-36	

Drawer Racks for Upright Freezers

For use with	Capacity	Array	Rack dimensions (W x H x D)	Catalog number	Price
2" boxes	9	3 x 3	5½" x 7⅛" x 16½"	KB-04398-19	
	12	3 x 4	5½" x 9⁷⁄₁₆" x 16½"	KB-04398-20	
	16	4 x 4	5½" x 9⁷⁄₁₆" x 22"	KB-04398-21	
	20	4 x 5	5½" x 11¹³⁄₁₆" x 22"	KB-04398-22	
	20	5 x 4	5½" x 9⁷⁄₁₆" x 26¾"	KB-04398-24	
	24	4 x 6	5½" x 12⅝" x 22"	KB-04398-23	
	25	5 x 5	5½" x 11¹³⁄₁₆" x 26¾"	KB-04398-25	
3" boxes	12	4 x 3	5½" x 10¹⁄₁₆" x 22"	KB-04398-31	
15-mL centrifuge tubes	160	2 drawers	5½" x 9¹⁵⁄₁₆" x 22"	KB-04398-27	
50-mL centrifuge tubes	78	2 drawers	5½" x 9¹⁵⁄₁₆" x 22"	KB-04398-26	

Vertical Racks for Chest Freezers

For use with	Capacity	Array	Rack dimensions (W x H x D)	Catalog number	Price
2" boxes	12	1 x 12	5⅝" x 26⅜" x 5½"	KB-04398-28	
	13	1 x 13	5⅝" x 28¼" x 5½"	KB-04398-29	

Argos Technologies® PolarSafe® EVA Ice Containers

Mess-free insulation for any cryogenic medium

- Thick, nontoxic EVA material is leakproof and will not "sweat"
- Compatible with ice, dry ice, liquid nitrogen, alcohol, and saline solutions
- Ergonomic handles on bases and lids are glove friendly
- Integral pour spouts make cleanup easy

Ethylene vinyl acetate (EVA) foam buckets and pans are ideally suited to benchtop chilling applications. Container bottom is designed to be nonslip. Lids are included.

Capacity	Overall dimensions†	Color	Catalog number	Price
Round buckets (OD x H)				
2.5 L	12" x 5½"	Blue	KB-04393-88	
		Green	KB-04393-90	
		Purple	KB-04393-93	
4 L	12" x 7¼"	Green	KB-04394-02	
		Purple	KB-04394-06	
		Black	KB-04394-09	
Rectangular pans (L x W x H)				
1 L	5¾" x 5¾" x 4½"	Green	KB-04393-54	
		Purple	KB-04393-57	
		Black	KB-04393-60	
4 L	13⅝" x 9" x 5"	Blue	KB-04393-64	
		Green	KB-04393-66	
		Purple	KB-04393-69	
9 L	17⅞" x 13⅜" x 4⅞"	Blue	KB-04393-76	
		Green	KB-04393-78	
		Purple	KB-04393-81	

†Without lid.

Find even more online!
Go to ColeParmer.com to search more than 100,000 products.

Cole-Parmer® elements™ Graduated Cylinders, Glass

Hexagonal base prevents cylinder from tipping over

- Durable borosilicate 3.3 glass
- Easy-read graduations
- Withstands wide temperature range –50 to 550°C
- Graduated tolerances from ±0.1 to ±20 depending on size
- Autoclavable

34502-70

34502-76

Buy More...Save More!
15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

Capacity (mL)	Graduations (mL)	Tolerance (mL)	Catalog number	Qty/pk	Price/pk
5	0.1	±0.1	KB-34502-68	2	
10	0.2	±0.2	KB-34502-69		
25	0.5	±0.5	KB-34502-70	1	
50	1	±1	KB-34502-71		
100	1	±1	KB-34502-72		
250	2	±2	KB-34502-73		
500	5	±5	KB-34502-74	1	
1000	10	±10	KB-34502-75		
2000	20	±20	KB-34502-76		

Cole-Parmer® elements™ Graduated Cylinders, PP

Molded one piece for enhanced durability

- Wide hexagonal base provides stability
- Accurate to ±2.5%
- Molded-in graduations will not wear off
- Bulk packed for greater savings

Featuring pour spouts, molded-in graduations, and heat resistance from –15 to 150°C, these translucent polypropylene (PP) cylinders are excellent for general use in the lab.

Buy More...Save More!
15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

Capacity mL (oz)	Graduation interval (mL)	Tolerance (± mL)	Catalog number	Qty/pk	Price/pk
50 (1.7)	1	±2.5%	KB-06200-24	10	
100 (3.5)	1		KB-06200-25		
250 (8)	5		KB-06200-26		

Cole-Parmer® Serialized Class A Graduated Cylinders, Glass

Feel more confident about your aliquots—meet ISO 9000 requirements

- Easy-to-read single white metric scale
- Autoclavable

Choose cylinders with a report of traceability to NIST standards or with a report of calibration and traceability. Models with report of calibration and traceability feature fused-in serial numbers. All cylinders support ISO 9000 requirements and are calibrated in accordance with ASTM E 542. Cylinders meet ASTM E 694 specifications and accuracy requirements of ASTM 1272. Cylinder glass meets ASTM E 438.

Capacity (mL)	Graduations (mL)	Tolerance (mL)	With report of traceability			With reports of calibration and traceability		
			Cat. no.	Qty/pk	Price/pk	Cat. no.	Qty/pk	Price/pk
Cylinders calibrated "To Contain"								
10	0.1	±0.10	KB-34300-17	1		—	1	—
25	0.2	±0.17	KB-34300-19			KB-34300-20		
50	1	±0.25	KB-34300-21			KB-34300-22		
100	1	±0.40	KB-34300-23			KB-34300-24		
250	2	±0.80	KB-34300-25	1		KB-34300-26	1	
500	5	±1.30	KB-34300-27			KB-34300-28		
1000	10	±3.0	KB-34300-29			KB-34300-30		
2000	20	±5.0	KB-34300-31			KB-34300-32		
Cylinders calibrated "To Deliver"								
10	0.1	±0.10	KB-34300-01	1		—	1	—
25	0.2	±0.17	KB-34300-03			KB-34300-04		
50	1	±0.25	KB-34300-05			KB-34300-06		
100	1	±0.40	KB-34300-07			KB-34300-08		
250	2	±0.80	KB-34300-09	1		KB-34300-10	1	
500	5	±1.3	KB-34300-11			KB-34300-12		
1000	10	±3.0	KB-34300-15			KB-34300-16		
2000	20	±5.0	KB-34300-13			KB-34300-14		

34300-27 calibrated "To Contain"

34300-15 calibrated "To Deliver"

Cole-Parmer® Graduated Cylinders, PP and PMP

Built to last—molded graduations won't wear off

- For very good chemical resistance, choose polypropylene (PP) version
- Choose transparent polymethylpentene (PMP) for good chemical and heat resistance
- Meet ISO Standard 6706 and calibrated "to contain"
- Autoclavable

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Cole-Parmer®

Capacity (mL)	Graduations (mL)	Polypropylene (PP) cylinders		Polymethylpentene (PMP) cylinders	
		Cat. no.	Price/pk of 1	Cat. no.	Price/pk of 1
10	0.2	KB-06137-70		KB-06137-50	
25	0.5	KB-06137-72		KB-06137-52	
50	1.0	KB-06137-74		KB-06137-54	
100	1.0	KB-06137-76		KB-06137-56	
250	2.0	KB-06137-78		KB-06137-58	
500	5.0	KB-06137-80		KB-06137-60	
1000	10.0	KB-06137-82		KB-06137-62	
2000	20.0	KB-06137-84		KB-06137-64	

Thermo Scientific™ Nalgene™ Calibrated Graduated Cylinders, PP and PMP

No more guessing—easy-to-read molded graduations

- Get more accurate measurements—calibrated "to contain" and "to deliver"
- Feel confident—meet ASTM Class B, E 1272 specifications and ISO Standard 6706
- Plastic is nonwetting; no meniscus
- Autoclavable

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity (mL)	Graduations (mL)	Tolerance (mL)	Polypropylene (PP) cylinders		Polymethylpentene (PMP) cylinders	
			Catalog number	Price/pk of 1	Catalog number	Price/pk of 1
10	0.2	±0.20	KB-06135-10		KB-06134-10	
50	1.0	±0.50	KB-06135-30		KB-06134-30	
100	1.0	±1.00	KB-06135-40		KB-06134-40	
500	5.0	±4.00	KB-06135-60		KB-06134-60	
1000	10.0	±6.00	KB-06135-70		KB-06134-70	
4000	50.0	±29.00	KB-06135-90		KB-06134-90	

PYREX® Brand 3025 Graduated Glass Cylinders

No more calculating allocations

- Measure how much you pour in and out directly with double metric scale
- Calibrate "to contain"
- Autoclavable

Buy More...Save More!
15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Capacity (mL)	Graduations (mL)	Catalog number	Price/pk of 1	Catalog number	Qty/cs	Price/cs
10	0.1	KB-34546-01		KB-34546-21	24	
25	0.2	KB-34546-02		KB-34546-22	18	
50	1.0	KB-34546-03		KB-34546-23	18	
100	1.0	KB-34546-04		KB-34546-24	12	
250	2.0	KB-34546-05		KB-34546-25	12	
500	5.0	KB-34546-06		KB-34546-26	8	
1000	10.0	—	—	KB-34546-27	1	
2000	20.0	—	—	KB-34546-28	1	

Cole-Parmer® Graduated Cylinders, PP

Don't guess at volume

- Read with ease—excellent transparency and raised graduations
- Durable, one-piece construction
- Maintain cleanliness—autoclavable

Cole-Parmer®

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity (mL)	Graduations (mL)	Catalog number	Qty/pk	Price/pk
10	0.2	KB-06134-61 KB-06134-62	2 24	
25	0.5	KB-06134-63 KB-06134-64	2 12	
50	1.0	KB-06134-67 KB-06134-66	2 12	
100	1.0	KB-06134-69 KB-06134-68	2 12	
250	2.0	KB-06134-71 KB-06134-72	1 6	
500	5.0	KB-06134-73 KB-06134-74	1 4	
1000	10.0	KB-06134-77 KB-06134-76	1 3	
2000	20.0	KB-06134-79 KB-06137-78	1 2	

Cole-Parmer® Syringe Filters

Get easy, reliable filtration—just slip on and twist

- Easy identification—membrane type and pore size printed on each filter
- Filter more confidently—filters are 100% integrity tested and manufactured in accordance with ISO 9002 standards
- Get a secure fit—bidirectional membrane support and luer lock inlet/outlet
- Sterile filters are sterilized by gamma irradiation and certified nonpyrogenic, noncytotoxic, and blister packed

Cole-Parmer®

Choose the Right Filter!

Membrane type	Applications
Glass prefilter	One-step prefiltration and filtration. Choose the final membrane to meet your application needs. High particle loading capacity.
Cellulose acetate	Sterilization and clarification of aqueous solutions. Low protein binding.
Nylon	Filtration of organic and aqueous solutions. Low extractables.
PTFE	Sterilization of gases and alcohols; cleaning acids, alkalies, and organic solvents; venting purposes. For aggressive chemicals.
Nitrocellulose	High protein retention; microbiological analysis, waste water treatment; sterilization of aqueous solutions.

Specifications

Membrane dia	Housing type	Sample volume	Retention volume†	Pressure limit at 25°C	Max temp	Effective filtration area
15 mm	PP	≤5 mL	10 µL	87 psi	127°C	1.7 cm^2
25 mm	PP	≤100 mL	0.1 mL	87 psi	127°C	4.8 cm^2
26 mm	Acrylic	≤100 mL	0.1 mL	87 psi	50°C	5.3 cm^2
50 mm	PP	≤2 L	0.5 mL	60 psi	134°C	20 cm^2

†Varies for glass prefilters; see glass prefilter table at left.

Glass Prefilters with Final Filter

- Save time—borosilicate glass fiber prefilter and cellulose filter in one
- Prefilter extends life of final filter by removing particulates from sample
- Reduces retention volume and sample loss

Membrane Type	Membrane Dia	Pore size	Housing	Retention volume	Qty/bx	Catalog number	Price/bx
Nonsterile filters							
Cellulose acetate	26 mm	0.20 µm	Acrylic	0.23 mL	100	KB-02915-90	
		0.45 µm				KB-02915-92	
		0.80 µm				KB-02915-94	
Sterile filter							
Cellulose acetate	26 mm	0.20 µm	Acrylic	0.23 mL	50	KB-02915-40	

Cellulose Acetate Filters

- Low protein binding—ideal for biological solutions
- Use for sterilization and clarification of aqueous solutions

Pore size	Membrane dia	Housing	Color	Qty/bx	Catalog number	Price/bx
Nonsterile filters						
0.22 µm	26 mm	Acrylic	Blue	100	KB-02915-60	
0.45 µm			Clear		KB-02915-58	
0.80 µm			Green		KB-02915-62	
Sterile filters						
0.22 µm	26 mm	Acrylic	Blue	50	KB-02915-12	
0.45 µm			Clear		KB-02915-00	
0.80 µm			Green		KB-02915-10	

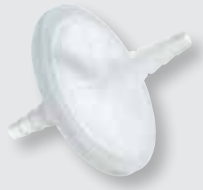
Nylon Filters

- Low levels of extractables with no wetting agents
- Hydrophilic nylon for good chemical resistance—ideal for aqueous and most organics

Pore size	Membrane dia	Housing	Color	Qty/bx	Catalog number	Price/bx
Nonsterile filters						
0.22 µm	25 mm	PP	Natural	100	KB-02915-16	
0.45 µm					KB-02915-14	
Sterile filters						
0.20 µm	25 mm	PP	Red	50	KB-02915-04	
0.45 µm			Natural		KB-02915-02	

PTFE Filters

- Ideal for aggressive chemicals—organic solvents, concentrated acids and bases, propellants and more
- Use for gas/air filtration
- 50-mm membranes have stepped hose barb connectors for ¼" to ½" ID tubing



Pore size	Membrane dia	Housing	Color	Qty/bx	Cat. no.	Price/bx
Nonsterile filters						
0.20 µm	15 mm	PP	Natural	100	KB-29550-08	
0.45 µm					KB-29550-10	
0.20 µm	25 mm	PP	Natural	100	KB-02915-20	
0.45 µm					KB-02915-22	
0.20 µm	50 mm	PP	Natural	20	KB-02915-28	
0.45 µm					KB-02915-30	
Sterile filters						
0.20 µm	25 mm	PP	Natural	50	KB-02915-08	
0.50 µm					KB-02915-06	

Nitrocellulose Filters

- Good for macromolecules—highest protein retention
- Get fast flow rates with aqueous solutions
- Ideal for microbiological analysis, waste water treatment, and sterilzation of aqueous solutions

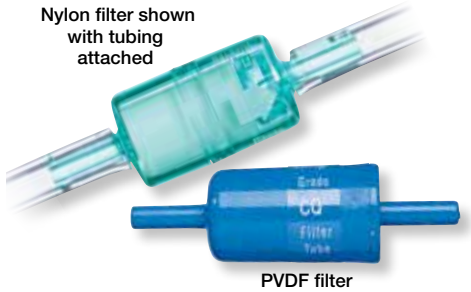
Pore size	Membrane dia	Housing	Color	Qty/bx	Cat. no.	Price/bx
Nonsterile filter						
0.20 µm	26 mm	Acrylic	Blue	100	KB-02915-56	
Sterile filters						
0.20 µm	26 mm	Acrylic	Blue	50	KB-02915-52	
0.45 µm					KB-02915-53	

Disposable In-Line Gas/Liquid Filters

Choose opaque PVDF for the best chemical compatibility or transparent nylon for lower cost

Filter gases or liquids with these microfiber filters. All models have a borosilicate glass filter membrane. Liquid efficiency ratings are 98% retention of particles of noted size; gas efficiency ratings are percentage retention of 0.01 µm particles.

Nylon and PVDF filters with ¼" OD and ½" OD ports accept flexible tubing for low-pressure applications; use compression fittings for higher-pressure applications. Max pressure is 125 psi (8.5 bar); max differential pressure is 40 psi (60 psi for 0.01 µm units).



PVDF filter

Application	Material	Gas efficiency	Liquid efficiency	Air flow at 2 psi drop at indicated pressure (scfm)			Water flow at indicated pressure drop (GPH)		Max temp (at 0 psi)	Ports	Catalog number	Qty/ pk	Price/ pk
				2 psi	60 psi	100 psi	1 psi	5 psi					
High-purity compressed gas; absolute filtration to 0.01 µm	Nylon	100% at 0.01 µm	—	0.3	1.7	2	—	—	230°F (110°C)	¼" OD	KB-02917-60	5	
Gas/air filtration—general-purpose use. Liquid filtration—remove most visible particles.	Nylon	93%	25 µm	1.2	5.4	8.3	12	30	230°F (110°C)	¼" OD	KB-02909-10	5	
	Nylon	98%	8 µm	1.0	125	6.9	10	25	230°F (110°C)	¼" OD	KB-02909-20	5	
	PVDF	93%	25 µm	1.2	5.4	8.3	12	30	275°F (135°C)	¼" OD	KB-02908-40	5	
	PVDF	98%	8 µm	1.0	125	6.9	10	25	275°F (135°C)	¼" OD	KB-02908-50	5	
Gas/air filtration—complete oil and water droplet removal. Liquid filtration—remove all visible particles and most colloidal haze.	Nylon	99.99%	2 µm	0.8	3.6	5.4	3	15	230°F (110°C)	¼" OD	KB-02909-30	5	
	Nylon		2 µm	0.8	3.6	5.4	—	—	230°F (110°C)	¼" OD	KB-02909-40‡	5	
	PVDF		2 µm	0.8	3.6	5.4	3	15	275°F (135°C)	¼" OD	KB-02908-60	5	
Gas/air filtration—with carbon granules for removal of trace oil vapors	Nylon	99%	—	0.5	2.6	4.0	—	—	180°F (82°C)	¼" OD	KB-02908-62	10	
Gas/air filtration—with silica gel for removal of water vapor	Nylon	99%	—	0.5	2.6	4.0	—	—	180°F (82°C)	¼" OD	KB-02908-64‡	10	
Gas/air filtration—with mixed sodium and calcium hydroxides for removal of acidic gases	Nylon	99%	—	0.5	2.6	4.0	—	—	180°F (82°C)	¼" OD	KB-02908-66	10	
Gas/air sterilizing. Liquid filtration—remove most bacteria.	Nylon	99.9999+%	0.9 µm	0.4	1.8	2.7	1.5	7.3	230°F (110°C)	¼" OD	KB-02909-50	5	
	Nylon	99.9999+%	0.3 µm	0.1	0.45	0.68	0.4	1.9	230°F (110°C)	¼" OD	KB-02909-60	5	
	PVDF	99.9999+%	0.9 µm	0.4	1.8	2.7	1.5	7.3	275°F (135°C)	¼" OD	KB-02908-80	5	
	PVDF	99.9999+%	0.3 µm	0.1	0.45	0.68	0.4	1.9	275°F (135°C)	¼" OD	KB-02908-90	5	

‡Turns red when saturated.

⚠ **WARNING:** Cancer and reproductive harm - www.P65Warnings.ca.gov

Advantec® Mixed Cellulose Ester Membranes

High quality at low prices

– Made from over 90% cellulose nitrate for strength and thermostability

These MCE membranes can be exposed to temperatures up to 266°F (130°C). Ideal for filter sterilizing biological fluids, microbiology, contamination analysis, and air monitoring.

Pore size (µm)	Bubble point (psi)	Flow (L/min/cm²)		13 mm (100/pk)		25 mm (100/pk)		47 mm (100/pk)		90 mm (25/pk)		142 mm (25/pk)		293 mm (25/pk)	
		H_2O†	Air	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
0.10	35.3	0.027	0.67	KB-06639-25		KB-06639-28		KB-06639-31		KB-06639-34		KB-06639-41		KB-36230-81	
0.20	54.5	0.018	2.4	KB-06639-01		KB-06639-05		KB-06639-13		KB-06639-35		KB-06639-17		KB-36230-82	
0.45	35.0	0.045	3.7	KB-06639-02		KB-06639-06		KB-06639-14		KB-06639-36		KB-06639-18		KB-36230-83	
0.80	16.4	0.165	15.0	KB-06645-30		KB-06645-32		KB-06645-34		KB-06645-36		KB-06645-38		KB-36230-84	
1.00	13.9	0.220	20.4	KB-06639-47		KB-06639-49		KB-06639-51		KB-06639-55		KB-06639-53		KB-36230-85	
3.00	10.2	0.300	28.3	KB-06639-26		KB-06639-29		KB-06639-32		KB-06639-39		KB-06639-42		KB-36230-86	
5.00	8.5	0.400	40.9	KB-06639-27		KB-06639-30		KB-06639-33		KB-06639-40		KB-06639-43		KB-36230-87	

†Using water prefiltered to 0.1 µm at 10 psi.

Advantec® Filter Holders

Easy assembly

Polypropylene (PP) holders are ideal for ultracleaning and sterilizing liquids under pressure, or for aseptic sampling of liquids and gases. Holders feature PP dual support screens and silicone O-rings. Dual support screens allow for flow in both directions. Assemble holders quickly and efficiently without membrane tears with specially designed inlet cap and exterior lock.

The 25-mm holder features a female luer-lock on the inlet and a male luer-slip on the outlet. The 47-mm holder features a ¼" NPT(M) thread on the inlet and a ¼" NPT(M)-female luer-slip on the outlet. Both are autoclavable.

06623-22

06623-32

Type of holder	Diameter	Catalog number	Qty/ pk	Price/ pk
Syringe	25 mm	KB-06623-32	6	
In-line	47 mm	KB-06623-22	1	

KB-02930-95 Support screen, 25 mm. Pack of 8

KB-06645-90 Support screen, 47 mm. Pack of 4

Cole-Parmer® Premium Luer Fittings

Premium luer fittings for critical applications

– Manufactured from 100% virgin raw materials in a Class 100,000 environment

– Full material traceability on all items

These luer fittings are ideal for a variety of applications, including syringes or small tubing. Manufactured in compliance with ISO 594-1 standards, these fittings are inspected to be free from contaminants, and are fully traceable. All parts meet tight dimensional tolerances for increased reliability and process purity. Choose from a range of sizes, 1/16" to 1/4", with a variety of connection options. **Pack of 25.**

Cole-Parmer®

Search

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ColeParmer.com/Fittings

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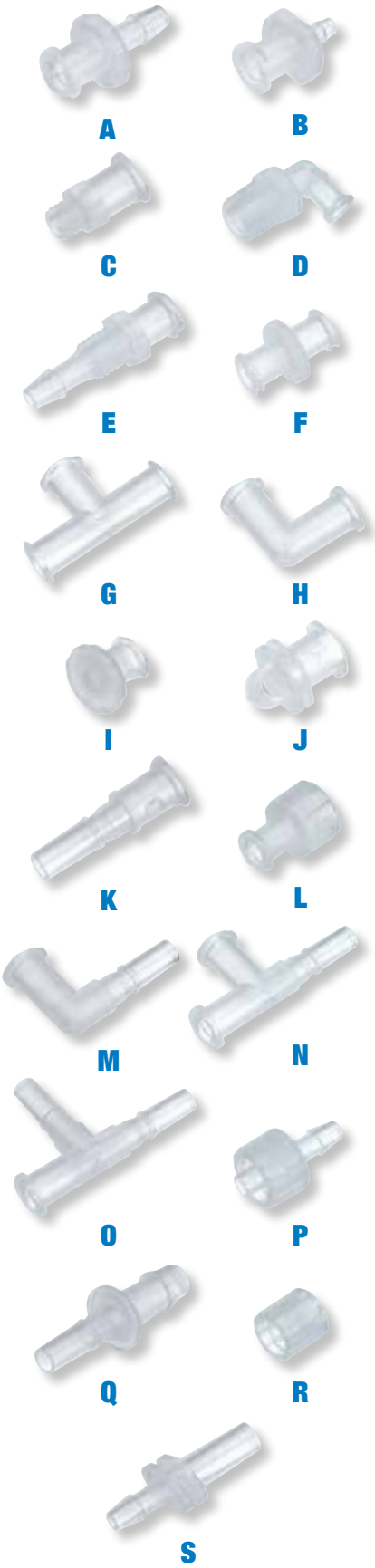
15% off on 50 to 99
10% off on 10 to 49 packs

FREE certificate of compliance for these fittings

Key	Description	Polypropylene		Polycarbonate		Nylon	
		Cat. no.	Price/pk	Cat. no.	Price/pk	Cat. no.	Price/pk
Female luer x hose barb adapters							
A	Female luer x 1/16" hose barb	KB-45508-00		KB-45501-00		KB-45502-00	
	Female luer x 3/32" hose barb	KB-45508-02		KB-45501-02		KB-45502-02	
	Female luer x 1/8" hose barb	KB-30800-08		KB-45501-04		KB-45502-04	
	Female luer x 5/32" hose barb	KB-45508-06		KB-45501-06		KB-45502-06	
	Female luer x 3/16" hose barb	KB-45508-08		KB-45501-08		KB-45502-08	
	Female luer x 1/4" hose barb	KB-30800-06		KB-45501-20		KB-45502-20	
Female luer x hose barb adapters (smooth bore)							
B	Female luer x 1/16" hose barb (smooth bore)	KB-45508-50		KB-45501-50		KB-45502-50	
	Female luer x 3/32" hose barb (smooth bore)	KB-45508-52		KB-45501-52		KB-45502-52	
	Female luer x 1/8" hose barb (smooth bore)	KB-45508-54		KB-45501-54		KB-45502-54	
Female luer x thread adapters							
C	Female luer x 10-32 special tapered thread	KB-45508-70		KB-45501-70		KB-45502-70	
	Female luer x 10-32 UNF thread	KB-45508-60		KB-45501-60		KB-45502-60	
	Female luer x 1/4-28 UNF thread	KB-45508-66		KB-45501-66		KB-45502-66	
	Female luer x 1/4-28 UNF bottom sealing thread	KB-45508-76		—	—	KB-45505-76	
	Female luer x 1/8-27 NPT thread	KB-30800-00		—	—	KB-45505-78	
D	Female luer x 1/8-27 NPT thread elbow	KB-45518-80		—	—	KB-45505-80	
Female luer bulkhead x hose barb adapters							
E	Female luer x 1/4-28 UNF thread to 1/16" hose barb	KB-45508-30		KB-45501-30		KB-45502-30	
	Female luer x 1/4-28 UNF thread to 3/32" hose barb	KB-45508-32		KB-45501-32		KB-45502-32	
	Female luer x 1/4-28 UNF thread to 1/8" hose barb	KB-45508-34		KB-45501-34		KB-45502-34	
Female adapters							
F	Female luer x female luer	KB-45508-22		KB-45501-22		KB-45502-22	
G	Female tee	KB-45508-56		KB-45501-56		KB-45502-56	
H	Female elbow	KB-45508-26		KB-45501-26		KB-45502-26	
I	Female luer x cap	KB-30800-12		KB-45501-28		KB-45502-28	
J	Female luer x cap with tether loop	KB-45508-64		KB-45501-64		KB-45502-64	
Male x female adapters							
K	Male luer x female luer coupler	KB-45508-82		KB-45501-82		KB-45502-82	
L	Male luer x female luer coupler with lock ring	KB-45508-80		KB-45501-80		KB-45502-80	
M	Male luer x female luer elbow	KB-45508-84		KB-45501-84		KB-45502-84	
N	Male x female x female tee	KB-45508-85		KB-45501-85		KB-45502-85	
O	Male x male x female tee	KB-45508-75		KB-45501-75		KB-45502-75	
Male luer lock x hose barb adapters							
P	Male luer lock x 1/16" hose barb	KB-45518-00		KB-45504-00		KB-45505-00	
	Male luer lock x 3/32" hose barb	KB-45518-02		KB-45504-02		KB-45505-02	
	Male luer lock x 1/8" hose barb	KB-30800-24		KB-45504-04		KB-45505-04	
	Male luer lock x 5/32" hose barb	KB-45518-06		KB-45504-06		KB-45505-06	
	Male luer lock x 3/16" hose barb	KB-45518-08		KB-45504-08		KB-45505-08	
	Male luer lock x 1/4" hose barb	KB-30800-22		KB-45504-19		KB-45505-19	
Male luer x hose barb adapters (for use with separate rotating lock ring "R")							
Q	Male luer x 1/16" hose barb	KB-45518-40		KB-45504-40		KB-45505-40	
	Male luer x 3/32" hose barb	KB-45518-42		KB-45504-42		KB-45505-42	
	Male luer x 1/8" hose barb	KB-45518-44		KB-45504-44		KB-45505-44	
	Male luer x 5/32" hose barb	KB-45518-46		KB-45504-46		KB-45505-46	
	Male luer x 3/16" hose barb	KB-45518-48		KB-45504-48		KB-45505-48	
	Male luer x 1/4" hose barb	KB-45518-50		KB-45504-50		KB-45505-50	
R	Snap luer lock ring	KB-45518-74		KB-45504-74		KB-45505-74	
Male slip luer x hose barb adapters (no lock ring)							
S	Male luer x 1/16" hose barb	KB-45518-22		KB-45504-22		KB-45505-22	
	Male luer x 3/32" hose barb	KB-45518-24		KB-45504-24		KB-45505-24	
	Male luer x 1/8" hose barb	KB-45518-26		KB-45504-26		KB-45505-26	
	Male luer x 5/32" hose barb	KB-45518-28		KB-45504-28		KB-45505-28	
	Male luer x 3/16" hose barb	KB-45518-52		KB-45504-52		KB-45505-52	
	Male luer x 1/4" hose barb	KB-45518-54		KB-45504-54		KB-45505-54	



CPC™ Plastic Quick-Disconnect Fittings

Fittings connect in a snap

- Acetal fittings are ideal for use with corrosive fluids
- Polycarbonate and polysulfone materials meet USP Class VI requirements

Simply press the thumb latch to disconnect coupling halves. Polycarbonate and polysulfone materials meet USP Class VI requirements and pass all physicochemical, cytotoxicity, leachables, and extractables tests. Order complete couplings or separate bodies and inserts from the tables below.

Note: Standard bodies and inserts fit together; won't work with large bodies and inserts and vice versa.

FREE certificate of compliance for PC, PSF fittings

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10% off on 10 to 49 packs

Specifications

Body material	Acetal	Polycarbonate (PC)	Polysulfone (PSF)
Temperature range	–40 to 180°F (–40 to 82°C)	–40 to 250°F (–40 to 121°C)	–40 to 300°F (–40 to 148°C)
Max pressure	120 psi	125 psi†	120 psi
Max vacuum	28" Hg	25" Hg	25" Hg
Sterilization	Autoclave or EtO	Autoclave, EtO, or gamma irradiation	Autoclave, EtO, or gamma irradiation

†Max pressure for ½" polycarbonate fittings is 60 psi.

Complete Couplings

Key	Catalog number	Size	Material	Length	Qty/pk	Price/pk
A	KB-06360-90	¼" tubing ID	Acetal	—	10	
	KB-31305-00		PC	—	10	
	KB-06360-91	⅜" tubing ID	Acetal	—	10	
	KB-31305-05		PC	—	10	
	KB-31306-05		PSF	—	10	

Standard Bodies and Caps

Key	Catalog number	Size	Material	Length	Qty/pk	Price/pk
Barbed bodies						
B	KB-06360-94	¼" tubing ID	Acetal	1.31" (33.3 mm)	10	
	KB-31311-11		PC		5	
	KB-31311-21		PSF		5	
	KB-06360-95	⅜" tubing ID	Acetal	1.31" (33.3 mm)	10	
	KB-31311-12		PC		5	
	KB-31311-22		PSF		5	
Hose barb coupling bodies with lock						
C	KB-31311-16	¼" tubing ID	PC	1.31" (33.3 mm)	5	
	KB-31311-26		PSF		5	
	KB-31311-17	⅜" tubing ID	PC	1.31" (33.3 mm)	5	
	KB-31311-27		PSF		5	
BSP straight-through bodies						
D	KB-06360-01	¼" BSP	Acetal	1.31" (33.3 mm)	10	
	KB-06360-02	⅜" BSP			10	
NPT(M) bodies						
E	KB-06360-00	¼" NPT	Acetal	1.31" (33.3 mm)	10	
	KB-06360-96	⅜" NPT			10	
Compression coupling bodies						
F	KB-06360-06	¼" OD	Acetal	1.31" (33.3 mm)	10	
	KB-06360-08	⅜" OD			10	
Sealing caps						
G	KB-31311-64	¼"	PC	1.31" (33.3 mm)	5	
	KB-31311-74	¼"	PSF		5	
Sealing caps with lock						
H	KB-31311-67	¼"	PC	1.31" (33.3 mm)	5	
	KB-31311-77	¼"	PSF		5	

Standard Inserts and Plugs

Key	Catalog number	Size	Material	Length	Qty/pk	Price/pk
Barbed inserts						
I	KB-06360-92	¼" tubing ID	Acetal	1.28" (32.5 mm)	10	
	KB-31311-61		PC		5	
	KB-31311-71		PSF		5	
	KB-06360-93	⅜" tubing ID	Acetal	1.28" (32.5 mm)	10	
	KB-31311-62		PC		5	
	KB-31311-72		PSF		5	
BSP straight-through inserts						
J	KB-06360-27	¼" BSP	Acetal	1.28" (32.5 mm)	10	
	KB-06360-97	⅜" BSP			10	
NPT(M) inserts						
K	KB-06360-16	¼" NPT	Acetal	1.28" (32.5 mm)	10	
	KB-06360-18	⅜" NPT			10	
Compression coupling inserts						
L	KB-06360-21	¼" OD	Acetal	1.28" (32.5 mm)	10	
	KB-06360-24	⅜" OD			10	
Sealing caps						
M	KB-06360-31	¼" OD	Acetal	1.28" (32.5 mm)	10	
	KB-06360-34	⅜" OD			10	
Plugs with lock						
N	KB-31311-68	¼"	PC	1.20" (30.5 mm)	5	
	KB-31311-78	¼"	PSF		5	

Large Bodies and Inserts (use these bodies and inserts together)

Key	Catalog number	Size	Material	Length	Qty/pk	Price/pk
Barbed bodies						
O	KB-31311-13	½" tubing ID	PC	1.96" (49.8 mm)	5	
	KB-31311-23		PSF		5	
Hose barb coupling bodies with lock						
P	KB-31311-18	⅜" tubing ID	PC	1.96" (49.8 mm)	5	
	KB-31311-28		PSF		5	
Barbed inserts						
Q	KB-31311-63	½" tubing ID	PC	1.90" (48.3 mm)	5	
	KB-31311-73		PSF	1.40" (35.6 mm)	5	

Cole-Parmer® Barbed Fittings

No tools needed for assembly

Combine these fittings with our flexible tubing for use in your low-pressure applications (less than 30 psi).

High-Density Polyethylene (HDPE). Very good chemical resistance. Temp range: –65 to 150°F (–53 to 65°C). Sterilize by ethylene oxide.

Nylon. Good chemical resistance. Temp range: –50 to 250°F (–46 to 121°C). Sterilize by ethylene oxide.

Polypropylene (PP). Very good chemical resistance. Temp range: 9 to 180°F (–13 to 66°C). Sterilize by ethylene oxide or gamma irradiation.

PVDF. Excellent chemical resistance. Temp range: –80 to 265°F (–62 to 129°C). Sterilize by ethylene oxide or autoclave.

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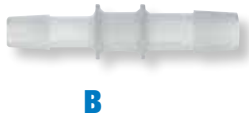
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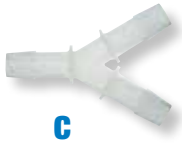
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D

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Tubing ID	HDPE			Nylon			Polypropylene			PVDF		
	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/pk	Price/pk
A. Straight connectors												
1/16"	KB-40622-47	10		KB-40622-48	10		KB-50622-49	10		KB-40703-00	10	
3/32"	KB-40622-44	10		KB-40622-45	10		KB-50622-46	10		KB-40703-01	10	
1/8"	KB-40622-53	10		KB-40622-54	10		KB-51518-05	10		KB-40703-02	10	
3/16"	KB-30622-55	10		KB-30622-56	10		KB-40622-57	10		KB-30703-04	10	
1/4"	KB-30621-85	10		KB-30621-86	10		KB-40610-00	10		KB-30703-05	10	
3/8"	KB-30621-89	10		KB-30621-90	10		KB-40610-02	10		KB-30703-07	10	
1/2"	KB-30621-92	10		KB-30621-93	10		KB-40610-03	10		KB-30703-08	10	
5/8"	KB-30621-79	10		KB-30621-80	10		KB-40610-04	10		KB-30703-09	10	
3/4"	KB-30621-81	10		KB-30621-82	10		KB-40610-05	5		KB-30703-10	5	
1"	KB-30621-83	10		KB-30621-84	10		KB-40610-06	5		KB-30703-11	5	
B. Reducing connectors												
1/8" x 1/16"	KB-41518-29	10		KB-40622-22	25		KB-50622-23	25		KB-40703-41	10	
1/4" x 1/8"	KB-30622-27	10		KB-30622-28	10		KB-41518-36	10		KB-30703-50	10	
1/4" x 3/16"	KB-30622-29	10		KB-30622-30	10		KB-40622-32	10		KB-30703-52	10	
3/8" x 1/4"	KB-30622-35	10		KB-30703-99	10		KB-40610-08	10		KB-30703-54	10	
1/2" x 1/4"	KB-30622-38	10		KB-30622-39	10		KB-40610-10	10		KB-30703-56	10	
1/2" x 3/8"	KB-30622-42	10		KB-30622-43	10		KB-40610-12	10		KB-30703-58	10	
5/8" x 1/4"	KB-30621-96	10		KB-30621-97	10		KB-40610-13	10		KB-30703-59	10	
5/8" x 1/2"	KB-30622-03	10		KB-30622-04	10		KB-40610-16	10		KB-30703-62	10	
3/4" x 1/2"	KB-30622-09	5		KB-30622-10	5		KB-40610-18	5		KB-30703-64	5	
1" x 1/2"	KB-30622-15	5		KB-30622-16	5		KB-40610-20	5		KB-30703-66	5	
1" x 3/4"	KB-30622-13	5		KB-30622-14	5		KB-40610-22	5		KB-30703-68	5	
C. Y connectors												
1/16"	KB-30726-01	10		KB-30726-21	10		KB-40726-41	10		KB-30703-90	10	
3/32"	KB-30726-02	10		KB-30726-22	10		KB-40726-42	10		KB-30703-91	10	
1/8"	KB-30726-03	10		KB-30726-23	10		KB-40726-43	10		KB-30703-92	10	
3/16"	KB-30726-04	10		KB-30726-24	10		KB-40726-44	10		KB-30726-64	10	
1/4"	KB-30726-05	10		KB-30726-25	10		KB-40726-45	10		KB-30726-65	10	
3/8"	KB-30726-06	10		KB-30726-26	10		KB-40726-46	10		KB-30703-93	10	
1/2"	KB-30726-07	10		KB-30726-27	10		KB-40726-47	10		KB-30703-94	10	
5/8"	KB-30726-08	10		KB-30726-28	10		KB-40726-48	10		KB-30726-68	10	
D. NPT male threaded adapters, NPT(M) x tubing ID												
1/8" x 1/8"	KB-30621-26	10		KB-30621-27	10		KB-40621-28	25		KB-30704-07	10	
1/8" x 1/4"	KB-30621-31	10		KB-30621-32	10		KB-40610-36	10		KB-30704-09	10	
1/4" x 1/8"	KB-30621-42	10		KB-30621-44	10		KB-40621-45	10		KB-30621-43	10	
1/4" x 1/4"	KB-30621-46	10		KB-30621-47	10		KB-40610-38	10		KB-30704-11	10	
3/8" x 1/4"	KB-30621-56	10		KB-30621-57	10		KB-40610-41	10		KB-30704-14	10	
3/8" x 3/8"	KB-30621-62	10		KB-30621-63	10		KB-40610-42	10		KB-30704-15	10	
1/2" x 1/4"	KB-30621-73	10		KB-30621-74	10		KB-40610-44	10		KB-30704-17	10	
1/2" x 3/8"	KB-30621-75	10		KB-30621-76	10		KB-40610-45	10		KB-30704-18	10	
1/2" x 1/2"	KB-30621-77	10		KB-30621-78	10		KB-40610-46	10		KB-30704-19	10	
3/4" x 1/2"	KB-30621-20	10		KB-30621-21	10		KB-40610-50	5		KB-30704-23	5	
3/4" x 3/4"	KB-30621-12	10		KB-30621-13	10		KB-40610-51	5		KB-30704-24	5	
1" x 1"	KB-31517-18	10		KB-30401-34	10		KB-40610-53	5		KB-30704-26	5	

FREE certificate of compliance for noted fittings

Free Certificate of Compliance

Cole-Parmer will provide a certificate of resin or elastomer compliance FREE at your request with each order of fittings, gaskets, or tubing. Certificates list your company's PO number, order reference number, catalog number, formulation, compound number, lot number (where applicable), and the regulations and agencies the fitting, tubing, or gasket complies with, including FDA, USP, USDA, National Formulary, NSF International, GMP, and 3A. Look for the blue "check" icon throughout this catalog to identify when a certificate of compliance is available.

Cole-Parmer® elements™ Erlenmeyer Flasks, Glass

Economical option for everyday lab use

- Easy-read graduations and marking area
- Withstands wide temperature range –50 to 550°C; autoclavable
- Graduated tolerances to ±0.05

Made with durable borosilicate 3.3 glass and featuring a heavy-duty rim with narrow-mouth opening, there are very few applications these flasks cannot handle.

elements™ Cole-Parmer®

Buy More...Save More!
15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

Capacity mL (oz)	Graduation range (mL)	Graduation interval (mL)	Catalog number	Qty/ pk	Price/pk
25 (⅞)	10 to 25	5	KB-34502-55	24	
50 (1¾)	20 to 50	10	KB-34502-56	12	
100 (3)	40 to 100	20	KB-34502-57		
125 (4)	50 to 125	20	KB-34502-58		
250 (8)	100 to 250	50	KB-34502-59		
300 (10)	100 to 300	50	KB-34502-60	8	
500 (16)	200 to 500	100	KB-34502-61		
1000 (32)	400 to 1000	100	KB-34502-62	6	
2000 (64)	800 to 2000	400	KB-34502-63	1	
3000 (96)	1000 to 3000	500	KB-34502-64		
4000 (128)	2000 to 4000	500	KB-34502-65		
5000 (160)	2000 to 5000	500	KB-34502-66		
6000 (192)	3000 to 6000	500	KB-34502-67		

Cole-Parmer® elements™ Volumetric Flasks, Glass

Quality borosilicate 3.3 glass

- White easy-read marking for volume
- Calibrated "To Contain" (IN) by DIN at 20°C
- Withstands wide temperature range –50 to 550°C; autoclavable
- Tight tolerances from ±0.015 to ±1.2 depending on size
- With glass pennyhead stoppers

elements™ Cole-Parmer®

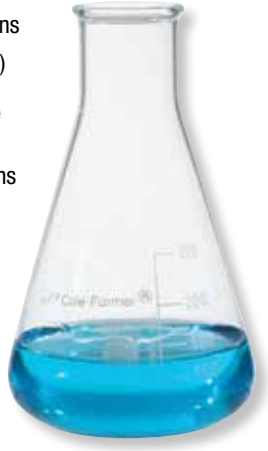
Buy More...Save More!
15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

Capacity (mL)	Tolerance (mL)	Catalog number	Qty/ pk	Price/ pk
2	±0.015	KB-34502-77	10	
5	±0.02	KB-34502-78		
10	±0.025	KB-34502-79	2	
20	±0.030	KB-34502-80		
25	±0.04	KB-34502-81		
50	±0.05	KB-34502-82		
100	±0.1	KB-34502-83	2	
200	±0.15	KB-34502-84		
250	±0.15	KB-34502-85		
500	±0.2	KB-34502-86		
1000	±0.4	KB-34502-87	1	
2000	±0.6	KB-34502-88		
5000	±1.2	KB-34502-89		

Cole-Parmer® Class A Erlenmeyer Flasks, Glass

Don't break the bank

- Easy-reading, white enamel graduations
- Stands up to the heat—752°F (400°C) for short-term exposure and 445°F (230°C) for long-term exposure
- Class A borosilicate glass meets ASTM E 1404, DIN 12380 specifications
- Autoclavable



Cole-Parmer®

Buy More...Save More!
15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Capacity (mL)	Stopper no.	Graduation range (mL)	Graduation (mL)	Catalog number	Qty/ pk	Price/ pk
100	5	50 to 100	25	KB-34506-10	12	
250	6	50 to 200	25	KB-34506-12	12	
500	7	100 to 500	50	KB-34506-14	6	
1000	9	250 to 1000	50	KB-34506-16	6	
2000	10	600 to 1900	100	KB-34506-18	1	
3000	10	1000 to 3000	500	KB-34506-20	1	

PYREX® Brand 5580 Volumetric Flasks

Easy and accurate dilutions—sharp line for precise volume

- Durable construction for repeated use
- Class A glassware
- Snap caps included on 10- to 2000-mL sizes

Buy More...Save More!
15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Capacity (mL)	Tolerance (±mL)	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ cs	Price/ cs
1	0.01	KB-34560-01	6		KB-34560-21	12	
2	0.015	KB-34560-02	6		KB-34560-22	12	
10	0.02	—	—	—	KB-34560-24	12	
25	0.03	KB-34560-05	6		KB-34560-25	12	
50	0.05	KB-34560-06	6		KB-34560-26	12	
100	0.08	KB-34560-07	6		KB-34560-27	12	
200	0.10	KB-34560-08	6		KB-34560-28	12	
250	0.12	KB-34560-09	6		KB-34560-29	12	
500	0.20	KB-34560-10	6		KB-34560-30	12	
1000	0.30	KB-34560-11	1		KB-34560-31	6	
2000	0.50	KB-34560-12	1		KB-34560-32	4	

KIMAX® Wide-Mouth Volumetric Flasks

Get easier sampling and aliquots

- Wide mouth allows for easier access for pipettes
- Class A for accurate dilutions; flasks 205-mL and under meet ASTM E288 standards
- Autoclavable

Capacity (mL)	Tolerance (±mL)	Stopper no.	Closure handle color for PTFE stopper	Flasks with PTFE stopper			Flasks with glass stopper		
				Catalog number	Qty/cs	Price/cs	Catalog number	Qty/cs	Price/cs
5	0.08	13	Orange	KB-34558-30	6		KB-34558-60	6	
10				KB-34558-32			KB-34558-62		
20				KB-34558-34			KB-34558-64		
25	0.08	13	Orange	KB-34558-36	6		KB-34558-66	6	
50				KB-34558-38			KB-34558-68		
100	0.1	16	Blue	KB-34558-40			KB-34558-70		
200	0.2	19	Green	KB-34558-42	6		KB-34558-72	6	
250				KB-34558-44			KB-34558-74		
500				KB-34558-46			KB-34558-76		
1000	0.3	22	Yellow	KB-34558-48	1		KB-34558-78	1	
2000	0.5	27	Red	KB-34558-50			KB-34558-80		

℔ Symbol used to designate interchangeable joints, stoppers, and stopcocks that comply with the requirements of Commercial Standard CS-21 published by NIST.

PYREX® Brand 5640 Volumetric Flasks

Get accurate dilutions

- Sharp, permanent graduation makes for easier diluting
- Durable, Class A design for longer life
- Easy-to-read white inscriptions
- More sizes and case quantities available

Buy More...Save More!
15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

Capacity (mL)	Tolerance (±mL)	℔ Stopper no.	Catalog number	Qty/pk	Price/pk
25	0.03	9	KB-34505-05	6	
50	0.05	9	KB-34505-06	6	
100	0.08	13	KB-34505-07	6	
200	0.10	13	KB-34505-08	6	
250	0.12	16	KB-34505-09	6	
500	0.20	19	KB-34505-10	6	
1000	0.30	22	KB-34505-11	1	
2000	0.50	27	KB-34505-12	1	

PYREX® Brand 4980 Erlenmeyer Flasks

Get tight storage with heavy-duty rim

- Durable white enamel graduations won't rub off
- Easily identify contents with large marking area

Buy More...Save More!
15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Cap. (mL)	Graduation range (mL)	Catalog number	Qty/pk	Price/pk
25	10 to 25	KB-34503-02	12	
50	20 to 50	KB-34503-03	12	
125	50 to 125	KB-34503-04	12	
250	50 to 200	KB-34503-05	12	
300	100 to 300	KB-34503-06	12	
500	100 to 500	KB-34503-07	6	
1000	250 to 1000	KB-34503-08	6	
2000	600 to 1800	KB-34503-09	1	
4000	1000 to 4000	KB-34503-10	1	
6000	1500 to 6000	KB-34503-11	1	

PYREX® Brand 5340 Filtering Flasks

Get maximum performance and durability

- Heavy-wall flasks have maximum mechanical strength
- Graduated for approximate measurements
- Use 10 mm OD tubing for flasks to 1000 mL; 12.5 mm OD for 2000-and 4000-mL sizes
- Case quantities also available

Buy More...Save More!
15% off on 10+ packs or cases
10% off on 5 to 9 packs or cases

Capacity (mL)	Stopper no.	Graduation range (mL)	Grad. (mL)	Catalog number	Qty/pk	Price/pk
250	6	75 to 250	25	KB-34557-01	6	
500	7	150 to 500	50	KB-34557-02	6	
1000	8	300 to 1000	50	KB-34557-03	6	
2000	9	600 to 2000	200	KB-34557-04	1	
4000	12	1500 to 4000	500	KB-34557-05	1	

KB-06414-30 **Tygon® vacuum tubing,** ⅜" ID (for 10-mm tubulation). 10 ft (3 m)

KB-06414-40 **Tygon vacuum tubing,** ½" ID (for 12.5-mm tubulation). 10 ft (3 m)

Vented Funnels, PP

No more air lock for easier funneling

- No messy cleanup—disposable for easier sampling
- Autoclavable

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity mL (oz)	Top OD	Stem OD	Total height	Catalog number	Qty/pk	Price/pk
40 (1⅓)	58 mm	6 mm	70 mm	KB-06124-10	100	
50 (1¾)	67 mm	6 mm	81 mm	KB-06124-20	100	

Utility Funnels, PP and HDPE

Get easy, economical funneling

- Ideal for general use or powders
- PP versions are autoclavable

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity mL (oz)	Top OD	Stem OD	Total height	Qty/pk	Catalog number	Price/pk
Polypropylene (PP), autoclavable						
70 (2)	2¾"	⅜"	2 11/16"	12	KB-06122-10	
125 (4)	3¼"	5/16"	3¾"	12	KB-06122-20	
250 (8)	4¼"	7/16"	4 11/16"	12	KB-06122-30	
High-density polyethylene (HDPE)						
500 (16)	5"	½"	5⅛"	12	KB-06122-40	
1000 (32)	6½"	15/16"	7⅞"	12	KB-06122-50	
2000 (64)	8⅛"	¾"	8"	12	KB-06122-60	

Large Industrial-Size Funnels, LDPE, PP, and HDPE

Quick, easy transfer of large quantities

- LDPE funnels have external ribbing for easy air release and a handle tab for easier lifting
- PP and HDPE funnels are translucent

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20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity L (gal.)	Top OD	Stem OD	Total height	Catalog number	Qty/pk	Price/pk
Low-density polyethylene (LDPE)						
1.5 (⅜)	7 5/8"	¾"	9 1/2"	KB-06121-10	1	
4 (1)	11"	⅞"	11 1/2"	KB-06121-20		
Polypropylene (PP), autoclavable						
2 (½)	8 3/16"	1 1/16"	7 7/8"	KB-06121-30	1	
4.5 (1¼)	10 1/4"	1 5/16"	10 3/16"	KB-06121-32		
10 (2½)	14"	1 9/16"	17 3/8"	KB-06121-34		
High-density polyethylene (HDPE)						
12 (3¼)	15 3/8"	1 7/8"	14 3/8"	KB-06121-00	1	
18 (5)	17 1/4"	1 3/4"	16 3/8"	KB-06121-36		

Cole-Parmer® Plastic Büchner Funnels, HDPE and PP

Get quick, economical vacuum filtration

- Easy sterilization: HDPE by gas, PP by autoclave or gas

Cole-Parmer®

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20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Filter size (mm)	Catalog number	Qty/pk	Price/pk
High-density polyethylene (HDPE)			
42.5	KB-06128-02	1	
55	KB-06128-03	1	
Polypropylene (PP), autoclavable			
90	KB-06128-04	1	
110	KB-06128-05	1	
150	KB-06128-10	1	
240	KB-06128-20	1	

CoorsTek® Büchner Funnels, Ceramic

Stand up to harsh chemicals

- Glazed inside and out for easy cleaning
- Autoclavable

Buy More...Save More!
15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

Capacity (mL)	Filter dia (mm)	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/cs	Price/cs
2	13	KB-17815-02	1		KB-17815-22	12	
30	35–40	KB-17815-04	1		KB-17815-24	12	
87	50–55	KB-17815-06	1		KB-17815-26	8	
186	70	KB-17815-08	1		KB-17815-28	6	
320	90	KB-17815-10	1		KB-17815-30	4	
550	110	KB-17815-12	1		KB-17815-32	4	
700	110–124	KB-17815-14	1		KB-17815-34	2	
1060	142–150	KB-17815-16	1		KB-17815-36	2	
1860	185	KB-17815-18	1		KB-17815-38	2	
4500	240	—	—	—	KB-17815-40	1	

Cole-Parmer® Funnels, 304 SS (medium gauge)

No wimpy construction—stands up to your needs

- Tab for easy lifting

Cole-Parmer®

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20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity mL (oz)	Top OD	Total height	Catalog number	Qty/pk	Price/pk
70 (2⅜)	3"	3¼"	KB-07263-00	1	
190 (6⅜)	4⅛"	4⅜"	KB-07264-00		
400 (13)	5"	5⅜"	KB-07265-00		
650 (22¼)	6"	6⅜"	KB-07266-00	1	
1000 (32)	6¾"	7¼"	KB-07267-00		
2000 (64)	8⅜"	8⅜"	KB-07268-00		

Ansell TNT™ Blue Disposable Nitrile Gloves

Durable and comfortable

- Static dissipative to eliminate static electricity
- Textured fingertips for better gripping
- Powder-free
- Ambidextrous

Compliance: FDA regulations for food contact.

Size	Length	Thickness	Qty/ bx	Catalog number	Price per box	
					1 bx	10 bx
Small	9½" (24 cm)	5 mil	100	KB-81601-04		
Medium				KB-81601-05		
Large				KB-81601-06		
X-large				KB-81601-07		

Cole-Parmer® Nitrile Gloves

Don't lose your grip

- Soft feel with textured fingertips for better grip
- Powder-free
- Ambidextrous

Cole-Parmer®

Size	Length	Thickness	Qty	Catalog number	Price
Small	9½" (24 cm)	4.0 mil	1 box of 100	KB-15954-42	
Medium				KB-15954-43	
Large				KB-15954-44	
X-large				KB-15954-45	
Small	9½" (24 cm)	4.0 mil	10 boxes of 100 (1000 total)	KB-15954-24	
Medium				KB-15954-25	
Large				KB-15954-26	
X-large				KB-15954-46	

Assorted Size Packs; convenient bundle of 12 boxes, assorted sizes

Boxes included				Catalog number	Price
Small	Medium	Large	X-large		
2	4	4	2	KB-25000-13	
4	4	4	—	KB-25000-15	
—	4	4	4	KB-25000-17	
—	6	6	—	KB-25000-19	

Showa® Best® N-DEX® Nitrile Gloves

Keep your cool—special formulation for comfort, less fatigue

- Nonlatex—made of soft 100% lightweight nitrile
- Fewer punctures—three times the resistance of rubber or vinyl
- Ambidextrous

Puncture resistant gloves withstand tough conditions

General and Laboratory Grade N-DEX Gloves protect your hands from the environment. Available in low-powder† or powder-free versions.

Industrial Grade N-DEX Plus Gloves are thicker for greater puncture and tear resistance. Gloves provide good resistance to chemicals and abrasion. Ideal for tough lab conditions, assembly, or manufacturing. Available only in low-powder† version.

Compliance: FDA 21 CFR, parts 170-199, acceptable for food and pharmaceutical use.

CE

Size	Length	Thickness	Qty/pk	Catalog number	Price per pack	
					1 pk	10 pk
General and laboratory grade low-powder† N-DEX gloves						
Small	9½" (24 cm)	4 mil	100	KB-86287-70		
Medium				KB-86287-71		
Large				KB-86287-72		
X-large				KB-86287-73		
General and laboratory grade powder-free N-DEX gloves						
Small	9½" (24 cm)	4 mil	100	KB-86287-80		
Medium				KB-86287-81		
Large				KB-86287-82		
X-large				KB-86287-83		
Industrial grade N-DEX Plus low-powder† gloves						
Small	9½" (24 cm)	8 mil	50	KB-86287-60		
Medium				KB-86287-61		
Large				KB-86287-62		
X-large				KB-86287-63		

†USP grade cornstarch

Ansell Touch N Tuff™ Nitrile Gloves

Keep dexterity without sacrificing safety

- Thin formulation, yet resists punctures and tears
- No fillers—gloves are 100% nitrile
- Ambidextrous

Compliance: FDA regulations for food contact

CE

Size	Length	Thickness	Qty/ bx	Catalog number	Price per box	
					1 bx	10 bx
Powdered gloves						
Small	9½" (24 cm)	4 mil	100	KB-81602-40		
Medium				KB-81602-50		
Large				KB-81602-60		
X-large				KB-81602-70		
Powder-free gloves						
Small	9½" (24 cm)	4 mil	100	KB-81602-45		
Medium				KB-81602-55		
Large				KB-81602-65		
X-large				KB-81602-75		

Wait!
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Find all the product specs you need!

Cole-Parmer® StableTemp™ Dry Block Heaters

Adjust to your needs

– Customizable to your needs—blocks available (below) for microtubes, centrifuge tubes, vials, microplates, and PCR strips or tube

Analog Dry Block Heaters. Economical temperature controllers are adjustable with separate high and low temperature control knobs.

Digital Dry Block Heaters. Proportional integrative derivative (PID) controller allows you to select a particular temperature with ease, enables rapid heat-up, and provides excellent stability to maintain results. No hot spots—units have exceptional temperature uniformity and digital display shows set and actual temperature. Additional features include timer, audible alarm, and built-in temperature calibration mode.

External Temperature Probe Kit enables the digital heaters to read block or sample temperature and display it on the control panel. The RTD probe fits into the thermometer well located within each modular block.

Caution! To avoid possible electrical hazard, do not fill well or block opening with water or other fluids. Unit is designed to run as a dry bath/incubator.

Find even more online! Go to ColeParmer.com to search more than 100,000 products.

Number of blocks accepted	Uniformity	Temperature range	Power		Catalog number	Price
			VAC	Watts		
Analog dry block heaters						
1	±0.1° within the block at 98°F (37°C)	Low range: ambient to 212°F (ambient +5°C to 100°C) High range: 167 to 302°F (75 to 150°C)	120	110	KB-36600-12	
			230	110	KB-36600-13	
2	±0.1° within the block at 98°F (37°C), ±0.1° across similar blocks at 98°F (37°C)		120	210	KB-36600-14	
			230	210	KB-36600-15	
3	±0.1° within the block at 98°F (37°C), ±0.15° across similar blocks at 98°F (37°C)		230	210	KB-36600-17	
Digital dry block heaters						
1	±0.1° within the block at 98°F (37°C)	Ambient to 248°F (ambient to 120°C)	120	110	KB-36600-01	
			230	110	KB-36600-02	
2	±0.1° within the block at 98°F (37°C), ±0.1° across similar blocks at 98°F (37°C)		120	210	KB-36600-03	
			230	210	KB-36600-04	
Digital dry block heaters with heated lid						
2	±0.1° within the block at 98°F (37°C), ±0.1° across similar blocks at 98°F (37°C)	Ambient to 248°F (ambient to 120°C)	120	400	KB-36600-69	
			230	400	KB-36600-70	

KB-36600-68 Optional external temperature probe kit

Cole-Parmer® StableTemp™ Modular Blocks for Dry Block Heaters

No need to buy a new heater—easy switchout for new requirements

Find even more online! See more block options at ColeParmer.com

– Get maximum heat-up and retention with close contact of tubes to wall
– Constructed of solid anodized aluminum for durability
– Know the actual temperature of your wells—thermometer well for easy block temperature measurement

Single block dimensions (L x W x H): 3¾" x 3" x 2" (9.5 x 7.6 x 5.1 cm). Double block sizes are available online to fit 2/4/6-block heaters.

Microcentrifuge Tube Blocks (single block size)

Accommodates	No. of wells	Well dia.	Well depth	Catalog number	Price
0.5 mL tube	30	7.9 mm	27.6 mm	KB-36600-22	
1.5 mL tube	20	11.1 mm	39.1 mm	KB-36600-23	
1.5 mL Eppendorf® tube	20	11.5 mm	36.9 mm	KB-36600-24	
2 mL Eppendorf tube	20	11.5 mm	38.1 mm	KB-36600-25	
2 mL Corning® tube	20	10.9 mm	38.1 mm	KB-36600-26	

Conical-Bottom Centrifuge Tube Blocks (single block size)

Accommodates	No. of wells	Well dia.	Well depth	Catalog number	Price
15 mL tube	12	17.1 mm	44.5 mm	KB-36600-28	
50 mL tube	5	29 mm	47.6 mm	KB-36600-29	

Cole-Parmer® LabGEN® 850 Homogenizer

Process virtually any laboratory sample in seconds

– Variable-speed range performs from 5000 to 25,000 rpm
– Sample range from 200 µL to 5 L
– Versatile—use as a handheld unit or mount to optional stand for hands-free operation

Cole-Parmer's LabGEN 850 homogenizer is well-suited for a wide range of processing applications. The homogenizer features an advanced, integrated push-button digital control system that ensures accuracy and repeatability. The digital timer can be set from seconds to minutes, and includes a 30-second countdown timer, which is great for remote applications in fume hoods or biosafety cabinets. Smooth-start feature minimizes splashing and provides steady processing.

Use the homogenizer with either the stainless steel rotor-stator generators or the plastic tip probes (tip adapter 04727-88 required). Order components separately.

What's included: cross rod, stand clamp, tool kit, and power cord.

REQUIRED System Components

1) Homogenizer
2) Rotor-stator generator
   OR
3) Plastic tip probes and required tip adaptor 04727-88
   OPTIONAL
4) Stand and Motor support rod

1. Homogenizer

LabGEN

Description	Sample volume	Power	Motor	Catalog number	Price
LabGEN 850 homogenizer	0.02 mL to 5 L	115 VAC, 50/60 Hz	850 W	KB-04727-28	
		220 VAC, 50/60 Hz		KB-04727-29	

2. Stainless Steel Rotor-Stator Generators

Dispersion type	Sample volume range	Diameter	Length	Catalog number	Price
Fine	0.02 to 5 mL	5 mm	75 mm	KB-04727-31	
Fine	0.05 to 5 mL	5 mm	75 mm	KB-04727-60	
Fine	0.25 to 30 mL	7 mm	115 mm	KB-04727-33	
Coarse				KB-04727-35	
Fine	1.5 to 100 mL	10 mm	115 mm	KB-04727-37	
Coarse				KB-04727-39	
Fine	100 to 2000 mL	20 mm	195 mm	KB-04727-41	
Coarse				KB-04727-43	
Fine	200 to 5000 mL	30 mm	195 mm	KB-04727-45	
Coarse				KB-04727-46	

3. Plastic Tip Probes

Sample volume	Tissue type	Tip size (L x dia)	Cat. no.	Qty/pk	Price/pk
0.25 to 30 mL	Hard	110 x 7 mm	KB-04727-84	25	
			KB-04727-85	50	

KB-04727-88 **Tip adapter,** required for use with plastic tip probes

4. Optional Stand

KB-04727-89 **Homogenizer stand** with support rod

IKA® T10 basic ULTRA-TURRAX® Homogenizer

No need for tools—quick-release for easy change outs

– Lightweight, ergonomic form is ideal for manual operation

This compact homogenizer is great for high-speed handheld operation. Through a combination of shear, impact, collision, and cavitation, the generator rapidly disperses and disintegrates the material suspended in the media. Stainless steel rotor-stator generators detach quickly and clean completely for reuse.

What's included: storage case, clamp 04720-80, and 6-ft (1.8-m) power cord.

REQUIRED System Components

1) Homogenizer
2) Rotor-stator generator

04720-72

1. Homogenizer

Description	Handheld homogenizers	
Catalog number	KB-04720-50	KB-04720-51
Speed range	8000 to 30,000 rpm	
Batch volume range	0.5 to 100 mL	
Noise rating	65 dB	
Speed adjustment	Stepless	
Wattage	125 input, 75 output	
Power (VAC, Hz)	115, 50/60	230, 50/60
Price		

2. Rotor-Stator Generators

Sample volume range	Dimensions (L x OD)	Qty	Catalog number	Price
0.5 to 10 mL	92 x 5 mm	1	KB-04720-72	
1 to 50 mL	115 x 8 mm	1	KB-04720-73	
1 to 100 mL	115 x 10 mm	1	KB-04720-74	

KB-04720-79 **Support stand** (requires cross sleeve 04720-81)
KB-04720-81 **Cross sleeve,** attaches stand to clamp
KB-04720-80 **Replacement clamp** (one is included with homogenizer)

Extech® Big-Digit Thermohygrometers

No more squinting

- Super-large LCD with 1" digits
- Simultaneously displays humidity and temperature

Unit features a Min/Max function that displays the highest and lowest readings from when the reset button was last pressed, and °F/°C selection.

What's included: wall mounting bracket, built-in desk stand, and one AAA battery.

CE

Specifications

Mode	Humidity	Temperature
Range	10 to 99%	14 to 140°F (–10 to 60°C)
Resolution	2%	0.1°F (0.1°C)
Accuracy†	±5% RH within 25 to 85% RH	±1.8°F from 14 to 122°F (±1.0°C from –10 to 50°C)
Power	One AAA battery (included)	

†Accuracy at 32 to 122°F (0 to 50°C).

Description	Cat. no.	Price
Thermohygrometer with built-in sensor	KB-37802-10	
Thermohygrometer with remote probe	KB-37809-16	
Thermohygrometer with remote probe and dew point	KB-37803-26	
Indoor/outdoor thermohygrometer with built-in sensor and remote probe	KB-37809-15	

KB-17030-28 **NIST-traceable calibration** with data for standard thermohygrometers

Digi-Sense™ Traceable® Humidity/Temperature Indicators

Accurately gauge proper humidity levels

- °F/°C unit selection, Min/Max reading, and clock with alarm and date
- Hands-free operation with built-in stand or use wall-mounting bracket
- Includes NIST-traceable calibration certificate

"Small, accurate, easy to use."

DIGI-SENSE™

Specifications

Parameters	Range	Resolution
Humidity	10 to 90% RH	0.1%
Temperature (internal sensor)	32 to 120°F (0 to 50°C)	0.1°F/C
Temperature (external sensor, model 20250-31 only)	–58 to 158°F (–50 to 70°C)	0.1°F/C

Description	Cat. no.	Price
Humidity/temperature indicator	KB-20250-30	
Humidity/temperature indicator with external temperature probe	KB-20250-31	

Oakton® Thermohygrometer with Digital Thermometer

No maintenance

- Remains accurate and stable without adjustments
- Switchable °F/°C scale
- Corrosion-resistant ABS plastic

What's included: one AA battery, mounting bracket, and screws.

OAKTON®

CE

Mode	Humidity	Temperature
Cat. no.	KB-35700-00	
Range	20 to 100%	0 to 160°F (–18 to 72°C)
Resolution	2%	0.1°F (0.1°C)
Accuracy	±4%, 20 to 90%; ±8%, 90 to 100%	±1.8°F (±1.0°C)
Response time	1 minute	
Power	One AA battery (included)	
Price		

KB-09376-01 **Replacement batteries,** AA. Pack of 4

KB-17030-28 **NIST-traceable calibration** with data for standard thermohygrometers

Cole-Parmer® Brass Case Thermohygrometers

Get the readings you need

- Units for %RH or %RH and temperature available

Include a calibration document supplied by the manufacturer, ensuring conformance to stated specifications. Indicators have a solid brass case, a 5" diameter glass face, and predrilled holes for wall mounting.

Cole-Parmer®

5 YEAR WARRANTY

Mode		%RH	%RH, °F/°C	
Catalog number		KB-03310-20	KB-03310-40	
Humidity	Range	0 to 100%	0 to 100%	
	Resolution	1%	2% RH	
	Accuracy	±3% (35 to 95%), ±5% (<35%, >95%)		
Temperature	Range	—	10 to 170°F (–12 to 76°C)	
	Resolution	—	5°F	5°F (2°C)
	Accuracy	—	±1% full-scale	
Response time		1 minute		
Price*				

***Discount:** Save 15% on three or more indicators.

KB-17030-28 **NIST-traceable calibration** with data for standard thermohygrometers

H-B Instrument DURAC® Specific Gravity Glass Hydrometers

100% nonmercury

- Temperature standard is 60°F (15.6°C)
- Plain form hydrometers are individually serialized for easy identification
- Ensure accuracy with multi-language statement of accuracy supplied by manufacturer

Precision Hydrometers, plain form, have 0.0005 divisions and feature metal ballast.

ASTM Hydrometers, plain form, are designed to conform to the accuracy requirements of ASTM, and have their scales affixed using a clear epoxy for increased durability. Feature metal ballast.

Precision Hydrometers, combined form, fuse together a hydrometer and thermometer into one convenient unit. These thermohydrometers have an organic performance liquid that is 100% mercury free and feature wax paraffin and steel shot ballast.

For Liquids Lighter than Water

General-Purpose Hydrometers, plain form

Range	Divisions	Length	Catalog number	Price
0.600 to 0.670	0.001	165 mm	KB-08298-46	
0.640 to 0.710	0.001	165 mm	KB-08298-47	
0.650 to 1.000	0.005	300 mm	KB-08299-09	
0.690 to 0.800	0.002	165 mm	KB-08298-11	
0.700 to 0.770	0.001	165 mm	KB-08298-17	
0.700 to 0.810	0.001	300 mm	KB-08298-27	
0.760 to 0.830	0.001	165 mm	KB-08298-19	
0.790 to 0.900	0.002	165 mm	KB-08298-13	
0.800 to 0.910	0.001	300 mm	KB-08298-29	
0.820 to 0.890	0.001	165 mm	KB-08298-21	
0.880 to 0.950	0.001	165 mm	KB-08298-23	
0.890 to 1.000	0.002	165 mm	KB-08298-15	
0.900 to 1.000	0.001	300 mm	KB-08298-31	
0.940 to 1.010	0.001	165 mm	KB-08298-25	

Precision Hydrometers, plain form

Range	Divisions	Length	Catalog number	Price
0.600 to 0.670	0.0005	325 mm	KB-08298-51	
0.640 to 0.710	0.0005	325 mm	KB-08298-53	
0.700 to 0.770	0.0005	325 mm	KB-08298-55	
0.760 to 0.830	0.0005	325 mm	KB-08298-57	
0.820 to 0.890	0.0005	325 mm	KB-08298-59	
0.880 to 0.950	0.0005	325 mm	KB-08298-61	
0.940 to 1.010	0.0005	325 mm	KB-08298-63	

ASTM Hydrometers, plain form

ASTM no.	Range	Divisions	Length	Catalog number	Price
82H	0.650 to 0.700	0.0005	330 mm	KB-08297-81	
83H	0.700 to 0.750	0.0005	330 mm	KB-08297-83	
84H	0.750 to 0.800	0.0005	330 mm	KB-08297-85	
85H	0.800 to 0.850	0.0005	330 mm	KB-08297-87	
86H	0.850 to 0.900	0.0005	330 mm	KB-08297-89	
87H	0.900 to 0.950	0.0005	330 mm	KB-08297-91	
88H	0.950 to 1.000	0.0005	330 mm	KB-08297-93	
89H	1.000 to 1.050	0.0005	330 mm	KB-08297-95	
102H	0.650 to 0.700	0.001	260 mm	KB-08297-97	
103H	0.700 to 0.750	0.001	260 mm	KB-08297-99	
104H	0.750 to 0.800	0.001	260 mm	KB-08298-01	
105H	0.800 to 0.850	0.001	260 mm	KB-08298-03	
106H	0.850 to 0.900	0.001	260 mm	KB-08298-05	
107H	0.900 to 0.950	0.001	260 mm	KB-08298-07	
108H	0.950 to 1.000	0.001	260 mm	KB-08298-09	

Precision Hydrometers, combined form

Range	Divisions	Temperature range	Divisions	Length	Catalog number	Price
0.700 to 0.810	0.001	0 to 150°F	2°F	381 mm	KB-08297-57	
0.800 to 0.910	0.001	0 to 150°F	2°F	381 mm	KB-08297-59	
0.900 to 1.000	0.001	0 to 150°F	2°F	381 mm	KB-08297-61	

For Liquids Heavier than Water

General-Purpose Hydrometers, plain form

Range	Divisions	Length	Catalog number	Price
1.000 to 1.070	0.001	165 mm	KB-08298-60	
1.000 to 1.220	0.002	300 mm	KB-08298-84	
1.000 to 1.250	0.005	165 mm	KB-08298-50	
1.000 to 1.600	0.005	300 mm	KB-08298-80	
1.000 to 2.000	0.01	300 mm	KB-08298-94	
1.060 to 1.130	0.001	165 mm	KB-08298-62	
1.120 to 1.190	0.001	165 mm	KB-08298-64	
1.180 to 1.250	0.001	165 mm	KB-08298-66	
1.200 to 1.420	0.002	300 mm	KB-08298-86	
1.200 to 1.450	0.005	165 mm	KB-08298-52	
1.240 to 1.310	0.001	165 mm	KB-08298-68	
1.300 to 1.370	0.001	165 mm	KB-08298-70	
1.360 to 1.430	0.001	165 mm	KB-08298-48	
1.400 to 1.620	0.002	300 mm	KB-08298-88	
1.400 to 1.650	0.005	165 mm	KB-08298-54	
1.420 to 1.490	0.001	165 mm	KB-08298-72	
1.480 to 1.550	0.001	165 mm	KB-08298-74	
1.540 to 1.610	0.001	165 mm	KB-08298-76	
1.500 to 2.000	0.005	300 mm	KB-08298-82	
1.600 to 1.670	0.001	165 mm	KB-08298-78	
1.600 to 1.820	0.002	300 mm	KB-08298-90	
1.600 to 1.850	0.005	165 mm	KB-08298-56	
1.660 to 1.730	0.001	165 mm	KB-08298-49	
1.720 to 1.790	0.001	165 mm	KB-08294-91	
1.780 to 1.850	0.001	165 mm	KB-08294-93	
1.800 to 2.000	0.002	300 mm	KB-08298-92	
1.800 to 2.000	0.001	165 mm	KB-08298-58	
1.840 to 1.920	0.001	165 mm	KB-08294-95	
1.900 to 1.970	0.001	165 mm	KB-08298-96	
1.970 to 2.040	0.001	165 mm	KB-08298-97	

Precision Hydrometers, plain form

Range	Divisions	Length	Catalog number	Price
1.000 to 1.070	0.0005	325 mm	KB-08298-65	
1.060 to 1.130	0.0005	325 mm	KB-08298-67	
1.120 to 1.190	0.0005	325 mm	KB-08298-69	
1.180 to 1.250	0.0005	325 mm	KB-08298-71	
1.240 to 1.310	0.0005	325 mm	KB-08298-73	
1.300 to 1.370	0.0005	325 mm	KB-08298-75	
1.360 to 1.430	0.0005	325 mm	KB-08298-77	
1.420 to 1.490	0.0005	325 mm	KB-08298-79	
1.480 to 1.550	0.0005	325 mm	KB-08298-81	
1.540 to 1.610	0.0005	325 mm	KB-08298-83	
1.600 to 1.670	0.0005	325 mm	KB-08298-85	
1.660 to 1.730	0.0005	325 mm	KB-08299-01	
1.720 to 1.790	0.0005	325 mm	KB-08298-87	
1.780 to 1.850	0.0005	325 mm	KB-08298-89	
1.840 to 1.920	0.0005	325 mm	KB-08299-03	

ASTM Hydrometers, plain form

ASTM no.	Range	Divisions	Length	Catalog number	Price
125H	1.000 to 1.050	0.001	260 mm	KB-08297-80	
126H	1.050 to 1.100	0.001	260 mm	KB-08297-82	
127H	1.100 to 1.150	0.001	260 mm	KB-08297-84	
128H	1.150 to 1.200	0.001	260 mm	KB-08297-86	
129H	1.200 to 1.250	0.001	260 mm	KB-08297-88	
130H	1.250 to 1.300	0.001	260 mm	KB-08297-90	
131H	1.300 to 1.350	0.001	260 mm	KB-08297-92	
133H	1.400 to 1.450	0.001	260 mm	KB-08297-94	

Precision Hydrometers, combined form

Range	Divisions	Temperature range	Divisions	Length	Catalog number	Price
1.000 to 1.220	0.002	0 to 150°F	2°F	381 mm	KB-08297-63	
1.200 to 1.420	0.002	0 to 150°F	2°F	381 mm	KB-08297-65	
1.400 to 1.620	0.002	0 to 150°F	2°F	381 mm	KB-08297-67	
1.600 to 1.820	0.002	0 to 150°F	2°F	381 mm	KB-08297-69	
1.800 to 2.000	0.002	0 to 150°F	2°F	381 mm	KB-08299-07	

For Liquids Considerably Heavier than Water

General-Purpose Hydrometers, plain form

Range	Divisions	Length	Catalog number	Price
2.000 to 3.000	0.01	300 mm	KB-08298-98	

Cole-Parmer® Digital Counter-Pen™

Ensure accurate counts

– Easy-to-read LCD displays up to 99,999 units
– Counter beeps each time a mark is made

Features single button reset and comes with cap.

Description	Catalog number	Price
Digital counter pen	KB-20610-30	

KB-20610-31 **Replacement ink cartridge,** black

Prefilled Dilution Vials

Easy-open design

– Flip top lid, 145-mL vials for easy handling
– Prediluted with final pH of 7.2 ±0.2 at 25°C
– Lab use only

Application	Fill capacity	Qty/pk	Catalog number	Price/pk
Butterfield's phosphate buffer				
Foods, dairy products, water, wastewater	99 mL	50	KB-36150-00	
	90 mL	50	KB-36150-02	
Phosphate buffer with magnesium chloride				
Beverages, dairy products	99 mL	50	KB-36150-10	
	90 mL	50	KB-36150-12	
Peptone water, gamma irradiated				
Foods, dairy products	99 mL	50	KB-36150-20	
	90 mL	50	KB-36150-22	
Buffered peptone water, gamma irradiated				
Foods, dairy products	99 mL	50	KB-36150-30	
	90 mL	50	KB-36150-32	

Thermo Scientific™ Nalgene™ Sterile Media Bottles, PETG

No prewashing needed

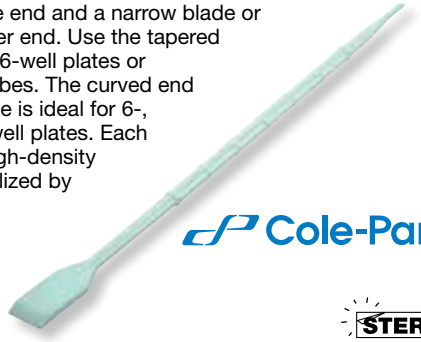
– Radiation-sterilized and nonpyrogenic—no need to wash, depyrogenate, or autoclave
– PETG bottle with HDPE closures for long term storage and sterility

Capacity mL (oz)	Closure size	Qty/cs	Catalog number	Price/cs
30 (1)	20 mm	96	KB-06254-00	
60 (2)	24 mm	96	KB-06254-10	
125 (4)	38-430 mm	48	KB-06254-20	
250 (8)	38-430 mm	48	KB-06254-30	
500 (16)	38-430 mm	24	KB-06254-40	
1000 (32)	38-430 mm	24	KB-06254-50	
2000 (128)	53B mm	12	KB-06254-60	

Cole-Parmer® Sterile Cell Lifters

Easily harvest cells from culture dishes, plates, and tubes

Double-ended lifters have a 19-mm beveled edge blade on one end and a narrow blade or J-hook on the other end. Use the tapered narrow blade for 96-well plates or microcentrifuge tubes. The curved end of the J-hook blade is ideal for 6-, 12-, 24-, and 48-well plates. Each lifter is made of high-density polyethylene; sterilized by gamma irradiation and come individually wrapped.



STERILE

Description	Overall length	Catalog number	Qty/cs	Price/cs
Narrow blade	9" (23 cm)	KB-01959-14	100	
J-hook blade		KB-01959-16	100	

Prepared Media Plates

Save time and money

– Consistent, reliable performance

Each includes a certificate of compliance and quality control that shows lot numbers, expiration dates, and shelf-life guarantee. **Pack of 10.**

Media	Description	Cat. no.	Price/pk
TSA	General growth medium for the isolation and cultivation of microorganisms	KB-14201-42	
Standard Methods Agar	Determine the microbial content in dairy products, food, water and other material of sanitary importance	KB-14201-44	
Baird Parker Agar	Selective medium for the detection and enumeration of coagulase-positive *Staphylococci* from food samples	KB-14201-48	
PDA (Potato Dextrose Agar)	For cultivation of yeasts and mold and for the inducement of sporulation	KB-14201-52	
HE Enteric Agar	Selective and differential medium for the isolation and differentiation of gram negative enteric pathogens	KB-14201-56	
MacConkey Agar with Sorbital	Selective and differential medium for the detection of enterohemorrhagic *E. coli* 0157:H7	KB-14201-58	
Centrimide Agar	Recommended for the selective isolation and identification of *Pseudomonas aeruginosa*	KB-14201-62	

Warning—These products are not approved or intended for, and should not be used for, medical, clinical, surgical or other patient oriented applications.

Find even more online! Go to ColeParmer.com to search more than 100,000 products.

Contact Plate Media

Cultivate microorganisms from environmental surfaces

These high-quality, economical plates feature a specified grid molded into the bottom of the plate for easy colony counting. **10/pack (except -28; 20/pack).**

Media	Description	Cat. no.	Price/pk
TSA w/ Lecithin & Tween 80	For the cultivation of microorganisms from environmental surfaces.	KB-14201-20	
SabDex with Lecithin & Tween 80	For the cultivation of fungi.	KB-14201-24	
Blood Agar, 5%	For cultivation of microorganisms from environmental surfaces.	KB-14201-28	
Baird Parker Agar	For the selective isolation and enumeration of coagulase positive *staphylococci* from food and environmental surfaces.	KB-14207-06	
Eosin Methylene Blue, EMB	For isolation and differentiation of gram negative bacilli.	KB-14201-32	
Rose Bengal Agar	For the selective isolation and enumeration of yeasts and molds.	KB-14201-36	

Thermo Scientific™ Nunc™ Lab-Tek™ Sterile Petri Dishes, PS

Get better cultures

- Sterilized by gamma irradiation

⚠ **WARNING:** Cancer - www.P65Warnings.ca.gov

STERILE

Dia x H (mm)	Vented	Stacking ring	Qty/cs	Catalog number	Price/cs
100 x 15	Yes	No	320	KB-14007-01	
100 x 25	No	Yes	300	KB-14007-04	
140 x 20	Yes	No	80	KB-14007-05	
150 x 25	No	No	72	KB-14007-14	
100 x 15	Yes	No	500	KB-14007-10†	

†Model 14007-10 is square in shape

Oxford® Bacti-Cinerator® IV

No more cross-contamination

- Safely and conveniently sterilize platinum loops and needles
- Don't waste time—sterilize in just 5 to 7 seconds
- Infrared heat has optimum sterilizing temperature of 1500°F

Description	Power (VAC,Hz)	Catalog number	Price
Bacti-Cinerator IV	120, 60 220, 50/60	KB-01850-22 KB-01850-24	

KB-01850-26 **Replacement heater element** for 01850-22
KB-01850-28 **Replacement heater element** for 01850-24

Cole-Parmer® Slideable Sterile Petri Dish, PS

Easily slide a single dish from a large stack

- Ventilation ribs reduce condensation and allow air circulation
- Partial edge ring on base allows a single dish to be slid from a large stack and enhances stability when stacked
- Consistent flatness provides for even media distribution

Cole-Parmer®

STERILE

Dia x H (mm)	Working volume	Cell growth area	Packaging	Catalog number	Qty/cs	Price/cs
100 x 15	15 to 16 mL	55 cm²	20/bag	KB-01932-31	500	

Sterile Petri Dishes, PS

Stacks won't tip over—convenient stacking ridges for better stability

- Use what you need—packaged in bags of 20 dishes
- Save time—already sterilized by gamma irradiation

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

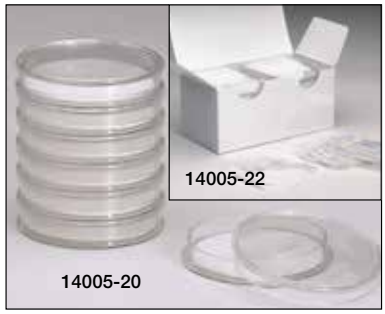
STERILE

Dia x H (mm)	Qty/pk	Catalog number	Price/pk
60 x 15	500	KB-06139-01	
100 x 15	500	KB-06139-00	

Advantec® Disposable 50-mm Sterile Petri Dishes, PS

No need to presterilize

- Sterilized dishes are ready to use
- Use only what you need—come in convenient packs of 20
- Polystyrene dishes come with or without 47-mm absorbent cellulose pad and hold 1.8 to 2.0 mL of liquid media
- Ridges for easy stacking



STERILE

Description	Dia x H (mm)	Qty/cs	Catalog number	Price/cs
Petri dish with pad	50 x 11	100 500	KB-14005-20 KB-14005-28	
Petri dish without pad	50 x 11	100 500	KB-14005-24 KB-14005-26	

KB-14005-22 **Presterilized absorbent pads.**
Box of 100 individual packages

Cole-Parmer® Digital Reversing Mixer

Time your cycles for more efficient mixing

- Won't lose speed—brushless, 142 in-oz torque motor maintains speed
- Minimize aeration and vortexing—reversing feature alters mixing pattern for better mixing
- No more moving mixer head to change impeller depth—through-shaft housing for easier positioning
- No more motor burn out—overload protection if torque exceeds ratings
- See what you're mixing—integrated sample light illuminates sample area

Mix samples up to 20,000 cps or up to 6.6 gallons (25 liters) easily and effectively. Repeat mixing conditions accurately with LED display, with control to ±1 rpm or 3% of reading. Set timer from 1 to 2000 minutes, with audible alert when complete.

Mixer includes: mixer head, adjustable chuck (accepts rod up to ⅜" [9.5 mm] dia), chuck key, mounting support rod, external power supply, and grounded power cord with plug assembly.

Complete system adds: propeller/shaft, support stand, and clamp.

Complete system 50004-10 includes mixer, support stand, clamp, and mixer propeller.

Cole-Parmer®

Description	Speed (rpm)	hp	Max torque (in-oz)	Power (VAC, Hz)	Catalog number	Price
Mixer only	40 to 2010	1/10	142	100 to 230, 50/60	KB-50004-00	
Complete system					KB-50004-10	

KB-17050-03 **NIST-traceable calibration** for mixers

Cole-Parmer® Digital Batch Mixer

Tackle volumes up to 55 gallons (200 L)

- User-friendly operation—PLC/PC programmability, data logging, and intuitive graphic touch-screen interface
- Two-speed transmission provides smooth, quiet operation
- Through-shaft design allows for easy impeller adjustment, less downtime

This portable batch mixer has enough power to mix up to 55 gallons (200 L) and viscosity up to 180,000 cps. Enclosed fan-cooled brushless DC motor maintains a constant power transfer to the shaft at speeds up to 1500 rpm. Adjustable chuck accommodates up to ⅝" (15.8 mm) dia impeller shaft.

Ideal for both laboratory and industrial uses, the mixer features RS-232 and USB interfaces to record date, time, speed, and torque data. Easy-to-use resistive digital touch-screen control enables you to select time and speed with a gloved hand or pencil tip. Other functions include alarms, timers, torque zero, torque min/max setting, and clockwise and counterclockwise rotation.

Safety features include a shaft/chuck guard, chemical-resistant housing, and overload, overheat and vibration protection. A safety screen protects the display from splashes.

What's included: chuck (accepts up to ⅝" dia shafts), chuck key, shaft guard, installed screen protector, memory stick, mounting bolts, and power cord.

Cole-Parmer®

Speed range (rpm)	hp	Max torque (in-oz)	Power (VAC, Hz)	Catalog number	Price
50 to 1500	½	4248	120, 60	KB-50009-00	

Accessories

KB-50019-94 **Stainless steel plate mount**
KB-50019-95 **Replacement screen protector kit**
KB-50019-96 **Stainless steel multiposition C-clamp set**
KB-50019-97 **Replacement stainless steel chuck** with key, 16-mm shaft diameter
KB-50019-98 **Replacement chuck shaft guard**
KB-50019-99 **Repl. stainless steel chuck key**

IKA® RW 20 Digital Dual-Range Mixer

Two speed ranges for a variety of applications

- No difficult controls—easy-to-use knob and LED display for accurate setting
- No need to move mixer head to reposition propeller—through-shaft design allows for easy movement
- Maintenance-free motor for continuous duty

Use this versatile, affordable mixer for liquid volumes up to 5 gallons (18.9 liters) and viscosities up to 10,000 cps (approximately the viscosity of honey). Select speed from 60 to 2000 rpm in two ranges for a variety of applications.

Complete system includes: mixer, chuck (accepts up to ⅜" [10 mm] dia shafts), 6¼"L x ½" dia (159 mm L x 10 mm dia) mounting rod, four-blade propeller mixer stand, and clamp.

Speed (rpm)	hp	Max torque (in-oz)	Power (VAC, Hz)	Catalog number	Price
60 to 500/ 240 to 2000	1/25	259	115, 50/60	KB-50705-00	
			230, 50/60	KB-50705-10	

IKA® EUROSTAR Digital Constant-Speed Mixers

Speed won't change even as viscosity does

- Automatic adjustment to desired speed with unique continuous speed comparison
- No need to move mixer head to remove samples—through-shaft design for impeller adjustments
- Worry-free operation—maintenance-free motor with overload protection
- Handle even large samples—up to 26.4 gallons (100 liters)

EUROSTAR 60 Digital Mixer (50704-20 and -25) handles volumes up to 10.6 gallons (40 liters) and viscosities up to 50,000 cps.

EUROSTAR 100 Digital Mixer (50704-30 and -35) will mix volumes up to 26.4 gallons (100 liters) and viscosities up to 70,000 cps.

What's included: chuck (accepts up to ⅜" [10 mm] dia shaft) and 6¼"L x ½" dia (159 mm x 13 mm) mounting rod.

Speed (rpm)	hp	Max torque (in-oz)	Power (VAC, Hz)	Catalog number	Price
Eurostar 60 digital mixer					
30 to 2000	3/16	85	115, 50/60	KB-50704-20	
			230, 50/60	KB-50704-25	
Eurostar 100 digital mixer					
30 to 1300	1/8	142	115, 50/60	KB-50704-30	
			230, 50/60	KB-50704-35	

IKA® EUROSTAR Digital Mixers

Mix viscous samples up to 30,000 cps

- Speed won't change even as viscosity changes
- Won't overheat—thermal overload shut-off for safety
- Maintenance-free design for continuous duty

EUROSTAR 20 Digital Mixer handles volumes up to 4 gallons (15 liters) and viscosities up to 10,000 cps.

EUROSTAR 40 Digital Mixer will mix volumes up to 6.6 gallons (25 liters) and viscosities up to 30,000 cps.

What's included: chuck (accepts up to ⅜" [10 mm] dia shaft) and 6¼"L x ½" dia (159 mm x 13 mm) mounting rod.

Speed (rpm)	hp	Max torque (in-oz)	Power (VAC, Hz)	Catalog number	Price
Eurostar 20 digital mixer					
30 to 2000	1/16	28.3	115, 50/60	KB-50702-30	
			230, 50/60	KB-50702-35	
Eurostar 40 digital mixer					
30 to 2000	1/8	56.6	115, 50/60	KB-50702-40	
			230, 50/60	KB-50702-45	

Oakton® Waterproof EcoTestr™ pH1 Pocket Tester

Economical, easy to use

- Automatically recognizes pH buffer standards
- Rugged IP67-rated housing is waterproof, dustproof, and floats in water
- Leakproof cap with fill line functions as a sample/calibration and hydrating cup

OAKTON®

Model		EcoTestr pH1
Catalog number		KB-35634-05
Range	pH	0 to 14.0 pH
	Temperature	32 to 122°F (0 to 50°C)
Resolution	pH	0.1 pH
	Temperature	0.1°F/°C
Accuracy	pH	±0.1 pH
	Temperature	±0.9°F (0.5°C)
Temperature compensation		Automatic, 32 to 122°F (0 to 50°C)
Calibration		1 to 3 points
Buffer recognition		USA, NIST
Power		Four AAA batteries (included), 400 hours of continuous use
Price		

Oakton® pHTestr® 50 Pocket Tester

Bring the performance of your lab into the field

- High ±0.01 pH accuracy—suitable for most ASTM and EPA test procedures
- Clog-resistant, double-junction pH electrode sensor is dependable and long-lasting!
- Use with confidence—even with demanding samples containing sulfides, heavy metals, organics, Tris buffer, or protein solutions
- Save money—replaceable sensor module lets you use tester body over and over again

OAKTON® ISO 9001:2008 CERTIFIED SUPPLIER

Model		pHTestr 50
Catalog number		KB-35634-15
Range	pH	–1.00 to 15.00 pH
	Temperature	32 to 140°F (0 to 60°C)
Accuracy	pH	±0.01 pH
	Temperature	±0.9°F (0.5°C) + 1 LSD from 32 to 122°F (0 to 50°C); ±1.8°F (1.0°C) + 1 LSD from 122 to 140°F (50 to 60°C)
Temperature compensation		Automatic, 32 to 140°F (0 to 60°C)
Calibration		Up to 3 points
Buffer recognition		USA 4.01, 7.00, 10.01; NIST 4.01, 6.86, 9.18
Power		Four AAA 1.5 V batteries (included)
Price		

Oakton® Waterproof Testr™ 5 Pocket Testers

Save money by replacing sensor, not the tester

- Unique three-color backlight indicates operating mode
- Simple to calibrate with automatic standard recognition—USA and NIST
- Rugged IP67-rated housing is waterproof, dustproof, and floats in water with sensor cap on
- Leakproof cap with fill line functions as a sample/calibration and hydrating cup
- Choose model with flat probe for surface or micro-volume testing, or spear tip for testing semisolid and solid materials

OAKTON®

Model		pH5	pH5F	pH5S	ORP5
Catalog number		KB-35634-16	KB-35634-46	KB-35634-52	KB-35634-54
Sensor type		Glass bulb	Flat surface	Spear tip	Glass bulb
Range	pH	-2 to 16 pH			—
	ORP	±1000 mV			±1000 mV
	Temp	32 to 122°F (0 to 50°C)			
Resolution	pH	0.01 pH			—
	ORP	1 mV			1 mV
	Temp	0.1°F/°C			
Accuracy	pH	±0.01 pH ±1 digit			—
	ORP	±0.2% FS			±0.2% FS
	Temp	±0.9°F (0.5°C)			
Temp compensation		Automatic, 32 to 122°F (0 to 50°C)			—
Calibration		1 to 3 points			1 point
Power		Four AAA batteries (included), 400 hours continuous use			
Price					

Oakton® PCTSTestr™ 50 Multiparameter Pocket Tester

One tester measures it all!

- Versatile tester combines up to five measurements in one pocket-sized meter
- Compatible with a wide range of samples with long-life pH electrode and stainless steel pin-style conductivity sensor
- Easy-to-replace sensor module lets you use tester body over and over again

OAKTON® ISO 9001:2008 CERTIFIED SUPPLIER

Model		PCTSTestr 50
Catalog number		KB-35634-35
Range	pH	–1.00 to 15.00 pH
	Conductivity	0.0 to 200.0 µS, 200 to 2000 µS; 2.00 to 20.00 mS
	TDS	0.0 to 100.0 ppm, 100 to 1000 ppm; 0.10 to 10.00 ppt (TDS factor 0.5)
	Salinity	0.00 to 10.00 ppt
	Temperature	32 to 140°F (0 to 60°C)
Accuracy	pH	±0.01 pH
	Conductivity	±1% full-scale
	TDS	±1% full-scale
	Salinity	±1% full-scale
	Temperature	±0.9°F (0.5°C) from 32 to 122°F (0 to 50°C); ±1.8°F (1.0°C) from 122 to 140°F (50 to 60°C)
Temperature compensation		Automatic, 32 to 144°F (0 to 60°C)
Calibration		3 points (pH, conductivity, TDS); 1 point (salinity)
Buffer recognition		USA 4.01, 7.00, 10.01; NIST 4.01, 6.86, 9.18
Power		Four AAA 1.5 V batteries (included)
Price		

Oakton® pH 5+ and pH 6+ Meters

Get high accuracy at low prices

- Autobuffer recognition for up to five-point calibration provides ±0.01 pH accuracy
- Take this compact unit anywhere
- Get pH and temperature readings at the push of a button
- Improve your accuracy with automatic temperature compensation (ATC) from 0 to 100°C
- Protect your unit with protective rubber boot that doubles as a stand
- Choose the pH 6+ meter to also read mV

Meter includes: ATC probe, protective rubber boot, and batteries.

Meter with probe adds: pH electrode 59001-65.

Meter kit adds: "All-in-one" pH electrode, pH buffer solutions, sample bottles, rinse bottle, and carrying case.

Save time, save money!

Choose Precalibrated
Includes a data-rich, ISO 17025-compliant certificate!
Precalibrated by INNOCAL® INNOVATIVE CALIBRATION SOLUTIONS

OAKTON®

ISO9001:2008 CERTIFIED SUPPLIER CE 3 YEAR WARRANTY Meter only

Specifications

Mode	pH	mV (pH 6+ only)	Temperature
Range	0.00 to 14.00 pH	±1000 mV or rel mV	0 to 100.0°C
Resolution	0.01 pH	1 mV	0.1°C
Accuracy	±0.01 pH	±2 mV	±0.5°C
Calibration	Up to five points: pH 1.68, 4.01, 7.00, 10.00, 12.45 (USA); pH 1.68, 4.01, 6.86, 9.18, 12.45 (NIST) pH 4.10, 6.97 (Pb)	±20 mV	Offset 0.1°C increments

Temp compensation: automatic with ATC probe, 0 to 100°C
Power: four AAA batteries (included)

Model	Description	Meter		Precalibrated	
		Catalog number	Price	Catalog number	Price
pH 5+	Meter only	KB-35613-50		KB-35613-51	
pH 6+		KB-35613-20		KB-35613-41	
pH 5+	Meter with probe	KB-35613-52		KB-35613-53	
pH 6+		KB-35613-22		KB-35613-42	
pH 5+	Meter kit	KB-35613-54		KB-35613-55	
pH 6+		KB-35613-24		KB-35613-44	

Accessories

KB-59001-65 **Replacement pH electrode;** single-junction, gel-filled. Epoxy body, BNC connector

KB-35811-71 **"All-in-one" combination pH probe** with built-in ATC; single-junction sealed, epoxy body, BNC connector

KB-35811-72 **"All-in-one" combination pH probe** with built-in ATC; double-junction sealed, epoxy body, BNC connector

KB-35613-05 **Replacement ATC probe,** stainless steel

KB-09376-00 **Replacement batteries,** AAA. Pack of 12

Oakton® Waterproof pH 150 Meter

Get more for your money!

- Intuitive, user-friendly icons show electrode status as pH slope
- Get quick and easy electrode attachment to a beaker or container with Grip-Clip™ holder
- Recall more data with expanded data logging for up to 150 data sets
- mV offset for calibration of ORP standards, zeroing mV value, and pH diagnostics
- Use as a benchtop meter as well—built-in stand or wall-mount option

View more simultaneously with large, three-line LCD providing pH or mV measurement with temperature and calibration % slope. Get faster calibration with auto buffer recognition which identifies the correct pH buffer. Be more accurate with up to six calibration points from USA, NIST, and DIN pH buffer sets and automatic temperature compensation (ATC).

Additional features include ready (stability) indicator, smart averaging, hold function, calibration alarm (visible), battery-life indicator, and electrode status.

Meter only includes: Grip-Clip holder and two AA batteries.
Meter with probe adds: "All-in-One" pH electrode (35808-71).
Meter kit further adds: pH buffers, storage solution, rinse solution, and hard carrying case.

OAKTON® ISO9001:2008 CERTIFIED SUPPLIER TÜV GS CE IP67 3 YEAR WARRANTY Meter only

Description		Meter only	Meter with probe	Meter kit
Model		pH 150		
Catalog number		KB-35614-32	KB-35614-30	KB-35614-90
Precalibrated cat. no.		KB-35614-34	KB-35614-33	KB-35614-91
Range	pH	–2.00 to 16.00		
	mV	±2000 mV		
	Temperature	–17.0° to 230.0° F (–10.0° to 110.0°C)		
Resolution	pH	0.01		
	mV	0.1 mV ±999.9 mV; 1 mV beyond		
	Temperature	0.1°F/C		
Accuracy	pH	±0.01		
	mV	±0.2 mV ±2 LSD or ±0.5% of reading; whichever is greater		
	Temperature	±0.9°F (±0.5°C)		
Calibration	pH	Up to 6 points: USA, NIST, DIN		
	mV	±200 mV		
	Temperature	Offset 0.1 increments		
Temperature compensation		Automatic or manual from –10 to 110°C		
Data logging		Stores up to 150 data sets		
Power		Two AA batteries (included); universal adapter (optional)		
Price				
Precalibrated price				

KB-35808-71 **Replacement "All-in-One" combination pH electrode** with built-in ATC; single-junction, epoxy body, BNC connector

KB-35618-05 **ATC probe.** Use with any standard pH electrode for temperature compensation

KB-35614-50 **Replacement Grip-Clip,** holder attaches probe to side of container for hands-free measurement

KB-35614-51 **Hard carrying case,** for 150/450 meters

KB-35420-72 **Optional power adapter,** 110/220 VAC

KB-09376-01 **Replacement batteries,** AA. Pack of 4

KB-17106-20 **NIST-traceable calibration** with data for pH meter

Oakton® Benchtop pH 700 and Ion 700 Meters

No more lost data—store and recall up to 100 data sets

- Takes up less bench space—40% smaller than comparable models
- Super-large duty-line display is easy to read
- Simple calibrations with 5-point automatic pH buffer recognition for USA and NIST buffers
- More accurate measurements with up to 5-point calibration for ion concentration on Ion 700 model
- Versatile—use with any pH, ORP, or ISE electrodes with BNC connector

pH 700 meter measures pH, mV, relative mV, and temperature. Ion 700 meter adds ion concentration measurement and reads directly in ppm for easy use. Automatic temperature compensation (ATC) maintains reading accuracy even with fluctuating temperatures.

Meters feature Auto-Hold, selectable °F or °C measurement, and easy recall of electrode slope or offset.

Save time, save money!

Choose Precalibrated
Includes a data-rich, ISO 17025-compliant certificate!
Precalibrated by INNOCAL® INNOVATIVE CALIBRATION SOLUTIONS

Keep procedures handy with quick-reference pull out

Search
For our complete selection of pH/ion meters, go to
ColeParmer.com/phmeters

OAKTON® ISO 9001:2008 CERTIFIED SUPPLIER CE Meter only

Specifications

Model		pH 700	Ion 700
Range	pH	–2.00 to 16.00	–2.00 to 16.00
	mV/rel mV	±2000	±2000
	ISE	—	0.01 to 2000 ppm
	Temperature	32 to 100°F (0.0 to 100.0°C)	32 to 100°F (0.0 to 100.0°C)
Resolution	pH	0.01 pH	0.01 pH
	mV/rel mV	0.1 within ±199.9 mV, 1 beyond ±199.9 mV	0.1 within ±199.9 mV, 1 beyond ±199.9 mV
	ISE	—	0.01 to 2000 ppm
	Temperature	0.1°F or °C	0.1°F or °C
Accuracy	pH	±0.01 pH	±0.01 pH
	mV/rel mV	±0.2 within ±199.9 mV, ±2 beyond 199.9 mV	±0.2 within ±199.9 mV, ±2 beyond 199.9 mV
	ISE	—	±0.5% of reading (monovalent); ±1% of reading (divalent)
	Temperature	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)
Calibration	pH	Up to 5 points with autobuffer recognition	Up to 5 points with autobuffer recognition
	mV	Up to ±150 mV offset adjustment	Up to ±150 mV offset adjustment
	ISE	—	From 2 to 5 consecutive points (0.1, 1.0, 10.0, 100.0, 1000 ppm)
Temperature compensation		Automatic or manual from 32 to 100°F (0 to 100°C)	Automatic or manual from 32 to 100°F (0 to 100°C)
Buffer recognition		USA or NIST buffer sets	USA or NIST buffer sets
Data logging		100 data sets	100 data sets
Power		100/240 VAC, 50/60 Hz	100/240 VAC, 50/60 Hz

Model	Description	Meter		Precalibrated meter	
		Catalog number	Price	Catalog number	Price
pH 700	Meter only	KB-35419-00		KB-35419-01	
pH 700	Meter with "all-in-one" pH/ATC electrode	KB-35419-03		KB-35419-05	
Ion 700		KB-35419-23		KB-35419-27	
pH 700	Meter with double-junction pH electrode, ATC probe, and removable electrode holder	KB-35419-10		KB-35419-11	
Ion 700		KB-35419-20		KB-35419-24	
pH 700	Meter with removable electrode holder	KB-35419-12		KB-35419-15	
Ion 700		KB-35419-22		KB-35419-26	

KB-59001-65 **Combination pH electrode;** single junction, gel-filled, epoxy body

KB-59001-70 **Combination pH electrode;** double junction, gel-filled, epoxy body

KB-35811-71 **"All-in-one" combination pH electrode;** single junction, gel-filled, epoxy body

KB-35805-04 **Replacement combination pH electrode;** double junction, refillable, glass body

KB-35613-13 **Replacement ATC probe,** SS

KB-35420-54 **Replacement electrode arm**

KB-17106-20 **NIST-traceable calibration** with data for pH/ion meter

Cole-Parmer® Epoxy-Body Combination pH and ORP Electrodes

Get fast, stable readings

Cole-Parmer®

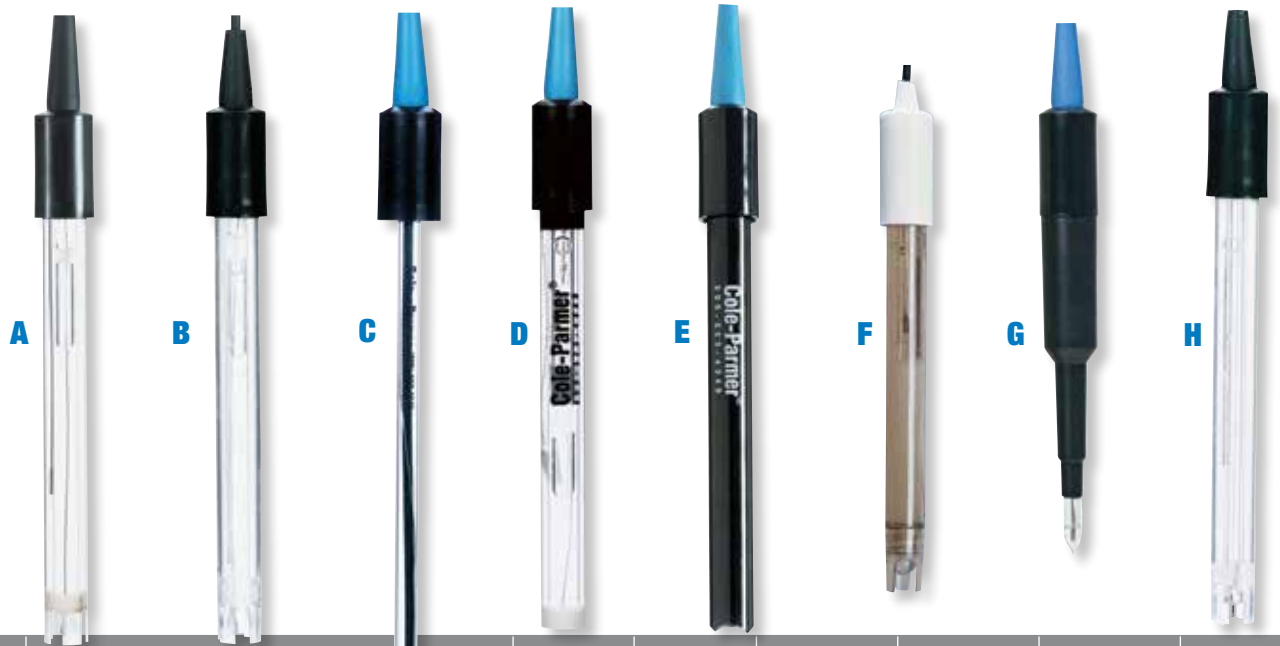
– Impact resistant—epoxy-body housing for added strength
– Ideal for your general-purpose applications in the lab or field
– Compatible with most brands of pH meter

These electrodes are ideal for prolonged pH or ORP readings. Electrodes with sealed, gel-filled design require virtually no maintenance. Electrodes with PTFE reference-junction offer extended electrode life. All listed electrodes have Ag/AgCl reference cells.

What's included: 3.3-ft (1-m) cable with BNC connector.

See How to...

Maintain it!
ColeParmer.com/PHmaintain



Key	Description	Reference junction	Type	Maximum temperature	Length x dia (mm)	Catalog number	Price
General-purpose pH electrodes							
A	General purpose	Single	Sealed	176°F (80°C)	127 x 12	KB-59001-65	
	For dirty samples	Double				KB-59001-70	
B	General purpose, refillable	Single	Refillable†	176°F (80°C)	148 x 12	KB-05992-30	
	For dirty samples, refillable	Double				KB-05991-12	
C	Extra-long neck for test tube sampling	Single	Sealed	176°F (80°C)	220 x 6	KB-05990-45	
D	Flat tip for surface or loKB-volume sampling	Single	Sealed	176°F (80°C)	127 x 12	KB-05990-65	
PTFE reference-junction pH electrodes (clog resistant)							
E	General purpose	Single	Sealed	212°F (100°C)	110 x 12	KB-05992-00	
	For dirty samples	Double				KB-05992-02	
Special-purpose pH electrodes							
F	Coiled-cable for dirty samples	Double	Sealed	176°F (80°C)	140 x 12	KB-05993-28	
G	Spear-tip for dirty samples				110 x 10	KB-59002-24	
ORP electrodes							
A	General purpose	Single	Sealed	176°F (80°C)	127 x 12	KB-59001-75	
	For dirty samples	Double				KB-59001-77	
H	General purpose, refillable	Single	Refillable††	176°F (80°C)	155 x 12	KB-05990-55	

†Use fill solution 05992-48 ††Use fill solution 05992-47

⚠ **WARNING:** This product can expose you to chemicals including ethanol, which is known to the State of California to cause reproductive harm. For more information, visit www.P65Warnings.ca.gov

KB-05992-48 **Reference fill solution,** 4 M KCl. Two 125-mL bottles

KB-05992-47 **Reference fill solution,** 3.8 M KCl with AgCl. Two 125-mL bottles

KB-05983-25 **Adapter,** BNC to US standard plug meter

Oakton® Flexible Electrode Holder

Keep electrodes in position

– Holds up to four standard-size electrodes and one ATC probe.
– Weighted base pivots 360° for added convenience

Description	Catalog number	Price
Electrode holder	KB-35617-50	

Oakton® pH Buffer Solutions

Keep your readings accurate with these quality buffers

Save by ordering larger sizes or by the case!

– Standardized against NIST-traceable pH references for meters with 0.01 resolution

OAKTON®

pH	500-mL bottles				1-L bottles		4-L bottles			
	Catalog number	Price/ea	Catalog number	Price/cs of 12	Catalog number	Price/ea	Catalog number	Price/ea	Catalog number	Price/cs of 4
1.68	KB-00654-01		—	—	—	—	—	—	—	—
4.01	KB-00654-00		KB-05942-21		KB-05942-22		KB-05942-24		KB-05942-25	
6.86	KB-00654-03		—	—	—	—	—	—	—	—
7.00	KB-00654-04		KB-05942-41		KB-05942-42		KB-05942-44		KB-05942-45	
9.18	KB-00654-07		—	—	—	—	—	—	—	—
10.00	KB-00654-08		KB-05942-61		KB-05942-62		KB-05942-64		KB-05942-65	
12.45	KB-00654-12		—	—	—	—	—	—	—	—

Oakton® Traceable® pH Buffers,

NIST-Traceable Reference Materials

Be confident in your measurements

NEW

– Calibrated by ISO 17034 and ISO 17025 accredited laboratory—includes NIST-traceable certificate

– 100% compatible with all makes of pH meters and all accreditation analysis requirements

– Easy calibrations—include instructions and temperature compensation chart

OAKTON®

pH	500-mL bottle		1-L bottle		4-L bottle	
	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
Colorless buffers						
4.005	KB-00651-00		KB-00651-30		KB-00651-70	
7.000	KB-00651-02		KB-00651-32		KB-00651-72	
10.012	KB-00651-04		KB-00651-34		KB-00651-74	
Color-coded buffers						
4.005 (red)	KB-00651-06		KB-00651-36		KB-00651-76	
7.000 (yellow)	KB-00651-08		KB-00651-38		KB-00651-78	
10.012 (blue)	KB-00651-10		KB-00651-40		KB-00651-80	

pH Buffer Capsules

No more wasted buffer

– Make only the buffer you need—empty one capsule into 100 mL of water and stir

– Accurate to ±0.02 pH

pH	Color	Catalog number	Price/vial of 10
4.0	Orange	KB-05977-12	
7.0	Green	KB-05977-14	
9.0	Yellow	KB-05977-16	
10.0	Blue	KB-05977-18	

Oakton® pH Buffer Pouches

Accuracy even on the go!

– Single-use pouch—just tear, dip, calibrate

– Standardized to NIST-traceable pH references

OAKTON®

pH	Catalog number	Price/pk of 20 pouches
4.01	KB-35653-01	
7.00	KB-35653-02	
10.00	KB-35653-03	
Rinse solution	KB-35653-00	

KB-35653-04 **Buffer pouch assortment pack;** contains five pouches each of pH 4, 7, and 10 buffers and rinse solution

Oakton® pH Buffer and pH Solution Packs

Maintain accuracy and your budget

– Save money by purchasing buffer pack—includes 500-mL bottle of pH 4, 7, and 10 NIST-traceable buffers

– Keep electrodes clean and stored correctly—purchase solution pack which adds 500-mL bottles of cleaning and storage solutions

OAKTON®

Description	Qty/pk	Catalog number	Price/pk
pH buffer pack	3 bottles	KB-05942-10	
pH solution pack	5 bottles	KB-05942-15	

Oakton® Electrode Cleaning and Storage Solutions

Clean electrodes make clean measurements

– Easily remove grease, protein, and other deposits with cleaning solution

– Make electrode last longer—store in our storage solution

– Choose 500-mL bottle or case of 24 500-mL bottles

OAKTON®

Solution type	Catalog number	Price/ea	Catalog number	Price/cs
Cleaning	KB-00653-06		—	—
Storage	KB-00653-04		KB-35655-04	

Argos Technologies® Omega Zen™ Pipette Controllers

Exceptional control in an ergonomic design

- Easily fine-tune pipetting speed with thumbwheel control and speedometer display
- Accepts glass or plastic serological pipettes, from 1 to 100 mL
- Durable, UV-resistant plastic housing is ideal for use in cleanrooms and fume hoods
- Maintain sterility with removable nosepiece autoclavable at 121˚C

Portable, lightweight pipette controller features rounded design with contoured buttons to help prevent hand fatigue after hours of use. Eight speeds from drip dispense to 8.3 mL/second allow for precision and versatility while pipetting. Gravity mode is nonmotorized drop dispensing, in which the speed of the drops being dispensed can be controlled by the dispense trigger.

What's included: two 0.45 µm sterile filters (one installed), wall-mount holder, rechargeable Li-ion battery, charging desk stand, and 100–240 VAC, 50/60 Hz adapter.

⚠**WARNING:** This product can expose you to chemicals including nickel, which is known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

Easy-to-read LCD indicates aspirate/dispense speed, gravity mode, and battery charge

Argos TECHNOLOGIES

Housing color	Catalog number	Price
Blue	KB-25300-96	
Purple	KB-25300-97	
Steel gray	KB-25300-98	

Argos Technologies® Transfer Pipettes

No more breakage or cross-contamination

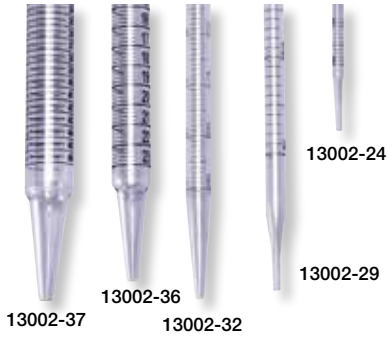
- Translucent, shatterproof LDPE is nontoxic and biologically inert
- Nonbinding for cells and proteins to prevent sample loss
- Heat sealable and liquid nitrogen compatible

Argos TECHNOLOGIES

Key	Description	Graduations		Bulb Draw (µL)	Total capacity	Drops per mL	Length in. (mm)	Qty/pk	Catalog number	Price/pk
		Increments	Maximum							
A	Exact volume	—	—	0.25 µL	0.25 mL	23	4.1 (102)	500	KB-06226-07	
B	Mini, short stem	—	—	0.9 µL	1.2 mL	25	2.5 (6.4)	500	KB-06226-30	
		—	—	0.9 µL	1.7 mL	25	3.4 (87)	500	KB-06226-21	
C	Short narrow stem	—	—	3 µL	4 mL	25	3.4 (86)	500	KB-06226-27	
D	Long narrow stem	—	—	3.3 µL	4 mL	22	6.125 (155)	500	KB-06226-28	
E	Large bulb narrow stem	—	—	8 µL	15 mL	19	6.125 (155)	250	KB-06226-32	
F	General purpose	—	—	1.9 µL	5 mL	25	6.125 (155)	500	KB-06226-25	
		—	—	3.2 µL	7.5 mL	20	6.125 (155)	500	KB-06226-11	
	General purpose, sterile	—	—	3.2 µL	7.5 mL	20	6.125 (155)	500	KB-06226-31	
	General purpose, fine tip	—	—	1 mL	1.5 mL	50	4.1 (104)	500	KB-06226-34	
		—	—	3.3 mL	5.8 mL	50	6.18 (157)	500	KB-06226-33	
	General purpose, large bulb	—	—	4.6 µL	8 mL	20	5.875 (152)	400	KB-06226-17	
G	Small bulb, graduated	0.1 mL	0.3 mL	0.8 µL	1.5 mL	21	4.6 (116)	500	KB-06226-13	
		0.5 mL	2 mL	1.9 µL	5 mL	25	6.125 (155)	500	KB-06226-03	
		0.25 mL	1 mL	2.1 µL	3 mL	25	5.4 (138)	500	KB-06226-23	
		0.25 mL	1 mL	2.1 µL	3 mL	25	5.5 (140)	500	KB-06226-29	
H	Large bulb, graduated	0.25 mL	1 mL	3.4 µL	5 mL	25	6.125 (155)	500	KB-06226-12	
		1.0 mL	2 mL	3 µL	6.7 mL	25	5.9 (152)	500	KB-06226-26	
		0.5 mL	3 mL	3.2 µL	7.5 mL	20	6.125 (155)	500	KB-06226-01	
	Large bulb, graduated, sterile	0.25 mL	1 mL	3.4 µL	5 mL	25	6.125 (155)	500	KB-06226-15	
I	Large bulb, double graduated	0.25 mL	1 mL	3.4 µL	5 mL	25	6.125 (155)	500	KB-06226-19	
J	General purpose, wide bulb	—	—	—	7 mL	—	5 (125)	500	KB-06226-35	
K	General purpose, extra long	—	—	2.3 µL	6 mL	25	9 (230)	500	KB-06226-22	
		—	—	7.3 µL	23 mL	20	12 (300)	100	KB-06226-24	

Argos Technologies® Serological Pipettes, PS

Fits just about any pipettor



These serological pipettes are made from transparent polystyrene (PS), sterilized by gamma irradiation, and designed for quick and accurate fluid dispensing. The highly legible permanent graduations prevent ambiguity and guarantee precise dispensing to ±2%. Graduations show volume removed or remaining on all pipettes larger than 1 mL. Generous negative graduations provide additional pipetting volume.

Filter plug eliminates lint fibers and ensures plug stays in place to prevent overfilling. The mouth piece fits all major pipettors and has color-coded TD rings for easy identification. Each lot is tested for endotoxins and cytotoxicity, and guaranteed nonhemolytic—ideal for your tissue culture applications.

The individually wrapped pipettes are supplied in a fiber-free paper/plastic combination that is easy to open. The dispenser box allows you to remove pipettes without opening the top. Universal stacking requires less space and each box is color coded for quick recognition.

Argos® TECHNOLOGIES

STERILE

Capacity (mL)	Graduation interval (mL)	Tip style	Color ring	Individually wrapped			Bulk wrapped			
				Catalog number	Qty/cs	Price/cs	Catalog number	Qty/bag	Qty/cs	Price/cs
1	0.01	Standard	Yellow	KB-13002-12	500		KB-13002-24	25	1000	
1	0.1	Standard	Red	KB-13002-14	500		KB-13002-26	25	1000	
2	0.01	Standard	White	KB-13002-15	500		KB-13002-28	25	1000	
5	0.1	Standard	Blue	KB-13002-16	200		KB-13002-29	25	500	
10	0.1	Standard	Orange	KB-13002-17	200		KB-13002-30	25	400	
10	0.1	Wide	Orange	—	—	—	KB-13002-32	25	400	
25	0.2	Standard	Green	KB-13002-19	150		KB-13002-36	10	150	
50	0.5	Standard	Purple	KB-13002-20	100		KB-13002-37	10	100	

Cole-Parmer® Single-Channel Pipettors

Don't sacrifice performance

– Ergonomic, lightweight design with soft plunger movement minimizes hand fatigue

Pipettors feature streamlined, low-pressure tip ejector for easy access to narrow containers. They facilitate last drop dispensing and reverse pipetting or autoclaving.

Adjustable-volume pipettors feature quick, easy click-stop, digital volume settings. Individually calibrated in accordance with DIN 12650 Standards and supplied with a computer-generated calibration document supplied by the manufacturer and calibration tool.

Cole-Parmer®

Specifications

Tip ejector: tip ejector with blow-out step
Autoclavable: tip cone and lower section assembly

Volume	Increments	Accuracy	Reproducibility	Catalog number	Price
Fixed-volume pipettors					
100 µL 200 µL 500 µL 1000 µL 5000 µL	—	±0.3%	±0.2%	KB-21600-00 KB-21600-02 KB-21600-04 KB-21600-06 KB-21600-08	
Adjustable-volume pipettors					
0.1 to 10 µL 5 to 50 µL 20 to 100 µL	0.1 µL 1.0 µL 1.0 µL	±2.5% ±1.3% ±1.1%	1.33% 0.7% 0.4%	KB-21600-10 KB-21600-12 KB-21600-14	
40 to 200 µL 200 to 1000 µL 1 to 5 mL	1.0 µL 10.0 µL 100.0 µL	±0.9% ±0.8% ±0.6%	0.3% 0.2% 0.2%	KB-21600-16 KB-21600-18 KB-21600-20	

Tips, Polypropylene

Volume (µL)	Qty/pk	Catalog number	Price/pk
0.2 to 10	Bag of 1000	KB-25711-06	
0 to 200	Bag of 1000 10 racks of 96	KB-25711-12 KB-25711-14	
50 to 1000	Bag of 1000	KB-18889-08	
1000 to 5000	Bag of 1000 Bag of 500 Bag of 250	KB-25711-70 KB-25711-71 KB-25711-72	

Cole-Parmer® Single-Channel Electronic Pipettors

Save time on routine tasks

– Program up to six presets with function, volume, speed, and number of dispenses
– Nine pipetting functions cover common and specialized pipetting applications
– Adjust brightness and background on large color display to suit any lighting condition

What's included: rechargeable battery, USB power cord, and two AC adapters (US and Euro).

Cole-Parmer®

Specifications

Tip ejector: yes, soft touch **Autoclavable:** tip cone

Volume (µL)	Increments	Accuracy†	Reproducibility†	Catalog number	Price
0.2 to 10	0.01 µL	±1.0%	≤0.4%	KB-24500-01	
5 to 100	0.1 µL	±0.6%	≤0.2%	KB-24500-02	
20 to 300	0.5 µL	±0.5%	≤0.2%	KB-24500-03	
50 to 1200	1 µL	±0.4%	≤0.2%	KB-24500-04	
500 to 5000	5 µL	±0.5%	≤0.2%	KB-24500-05	
1000 to 10,000	10 µL	±0.4%	≤0.2%	KB-24500-06	

†Accuracy and reproducibility at full-scale volume.

Tips, Polypropylene

Volume (µL)	Pack description	Catalog number	Price
0.1 to 10	Bag of 1000	KB-25711-49	
	10 racks of 96	KB-25711-51	
	10 racks of 96, sterile	KB-25711-53	
	10 racks of 96, sterile, filtered	KB-25711-55	
1 to 200	Bag of 1000	KB-25711-57	
	10 racks of 96	KB-25711-59	
	10 racks of 96, sterile	KB-25711-61	
	10 racks of 96, sterile, filtered	KB-25711-65	
1000 to 5000	Bag of 500	KB-25711-71	
1000 to 10,000	Bag of 500	KB-25711-73	
	Bag of 1000	KB-25711-66	
	10 racks of 96	KB-25711-67	
	10 racks of 96, sterile	KB-25711-68	
	10 racks of 96, sterile, filtered	KB-25711-69	

Outfit your entire lab
with quality products you can trust

Cole-Parmer® Symmetry®
LT Precision Toploading and
LA Analytical Balances

Quality and precision at an affordable price

- Large, backlit LCD provides clear visibility of weighing results
- Get secure data connections via USB, RS-232, Ethernet, and Wi-Fi interfaces
- Industry-leading 5-year warranty

See page 4

Jenway® 74- and 76-Series Spectrophotometers

Day In, Day Out Spectroscopy Just Got Easier!

- Large, 7" HD color display makes navigation easy. The touchscreen is fast and responsive, even with gloves
- Large, domed lid provides easy access, even for tall multi-cell chambers or tubes
- 10 GB onboard storage lets you store methods and results, with easy-access USB ports to transfer data or connect a printer

See page 75

Not sure what to choose? Get free tech support at 1-800-323-4340

Masterflex® C/L® Variable-Speed Compact Pumps

Pump in even the tightest spaces!

- Pump fluids in either direction—easily switchable reversing motor
- Easy tubing changes—open cover and release occlusion bed in one motion

A. C/L Single-Channel Pumps

- Stop/start remotely via contact closure
- MAX button quickly primes or purges tubing
- Pump from 0.002 to 43 mL/min

B. C/L Digital Microflex® Pump

- Icon-driven menu allows quick programming and setup
- Flow range of 0.00013 to 43 mL/min
- Copy dispense function for filling and dispensing applications
- Remote control of speed, direction, and start/stop/prime via 25-pin connector on back of drive
- Microflex pump head accepts continuous lengths of tubing for clean flow paths
- Tubing calibration ensures accuracy

A

B

FEATURES

- ✓ Flow range: 0.00013 to 43 mL/min
- ✓ Reversible pumping
- ✓ Remote control capabilities

MASTERFLEX®

ISO 9001:2008 CERTIFIED SUPPLIER

Power supplies are:

rpm	Speed control (repeatability)	Number of channels	Number of rollers	Reversible motor	IP rating	Dimensions—¼ DIN (L x W x H)	Power		Catalog number	Price
							VAC, Hz	Amps		
A. C/L single-channel compact pumps										
1.7 to 10	±5%	1	4	Yes	IP22	7" x 3¾" x 3½" (17.8 x 9.5 x 8.9 cm)	90 to 260, 50/60	110 mA at 115 VAC	KB-77122-04	
							12 VDC†	—	KB-77122-06	
13 to 80							90 to 260, 50/60	175 mA at 115 VAC	KB-77122-14	
							12 VDC†	—	KB-77122-16	
50 to 300			3				90 to 260, 50/60	400 mA at 115 VAC	KB-77122-24	
							12 VDC†	—	KB-77122-26	
B. C/L digital Microflex pump										
0.1 to 300	±0.1%	1	3	Yes	IP33	8 1/16" x 5½" x 6 3/16" (20.5 x 14 x 15.7 cm)	90 to 260	0.34 at 115 VAC, 0.2 at 230 VAC	KB-77123-00	

†Power supply not included with 12 VDC models.

KB-17050-01 **NIST-traceable calibration** with data for peristaltic pump drive

For A models:

KB-77120-03 **Brackets** for panel mounting. Set of 2

KB-77200-07 **Replacement power supply,** 100 to 240 VAC, for pump 77122-24

KB-77120-11 **Replacement power supply,** 100 to 240 VAC, for pumps 77122-04, -14

For B model:

KB-07523-92 **Foot switch,** momentary start/stop; DB25 male; 6-ft (1.8-m) cable

KB-07523-95 **Cable assembly,** DB25 male connector and 25-ft (7.9-m) cable with stripped wire ends

KB-07523-97 **Handheld remote controller,** DB25 male, route tubing through handle for dispensing applications; 6-ft (1.8-m) cable

KB-77123-80 **Replacement single-channel Microflex pump head**

KB-07525-90 **Replacement power supply,** 90 to 260 VAC

⚠ **WARNING:** This product can expose you to chemicals including BPA, lead, and phthalates, which is known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov

Tube ID (mm)	Tygon® E-Lab	Silicone (platinum-cured)	Silicone (peroxide-cured)	PharMed® BPT	Tygon E-LFL (long flex life)	Viton®	Puri-Flex™	C-Flex®	Solvent/ hydrocarbon
0.19	KB-06460-10	—	KB-07625-10	KB-95809-10	KB-06449-10	—	KB-96418-10	KB-95718-10	KB-95712-10
0.25	KB-06460-12	—	KB-07625-12	KB-95809-12	KB-06449-12	—	KB-96418-12	KB-95718-12	KB-95712-12
0.51	KB-06460-18	KB-95590-18	KB-07625-18	KB-95809-18	KB-06449-18	KB-97632-18	KB-96418-18	KB-95718-18	KB-95712-18
0.89	KB-06460-26	KB-95590-26	KB-07625-26	KB-95809-26	KB-06449-26	KB-97632-26	KB-96418-26	KB-95718-26	KB-95712-26
1.14	KB-06460-30	KB-95590-30	KB-07625-30	KB-95809-30	KB-06449-30	KB-97632-30	KB-96418-30	KB-95718-30	KB-95712-30
1.42	KB-06460-34	KB-95590-34	KB-07625-34	KB-95809-34	KB-06449-34	KB-97632-34	KB-96418-34	KB-95718-34	KB-95712-34
2.06	KB-06460-42	KB-95590-42	KB-07625-42	KB-95809-42	KB-06449-42	KB-97632-42	KB-96418-42	KB-95718-42	KB-95712-42
2.79	KB-06460-48	KB-95590-48	KB-07625-48	KB-95809-48	KB-06449-48	KB-97632-48	KB-96418-48	KB-95718-48	KB-95712-48
Length/pk	30.4 m (100 ft)	15.2 m (50 ft)	15.2 m (50 ft)	30.4 m (100 ft)	30.4 m (100 ft)	15.2 m (50 ft)	15.2 m (50 ft)	15.2 m (50 ft)	15.2 m (50 ft)
Price/pk									

Flow Rates in mL/min

rpm	Microbore pump tubing size (ID)							
	0.19 mm	0.25 mm	0.51 mm	0.89 mm	1.14 mm	1.42 mm	2.06 mm	2.79 mm
1.7 to 10	0.002 to 0.013	0.004 to 0.022	0.015 to 0.087	0.041 to 0.25	0.064 to 0.39	0.09 to 0.57	0.18 to 1.05	0.28 to 1.65
13 to 80	0.017 to 0.10	0.03 to 0.18	0.12 to 0.70	0.33 to 2.0	0.52 to 3.1	0.75 to 4.5	1.4 to 8.5	1.8 to 11.0
50 to 300	0.06 to 0.39	0.11 to 0.66	0.43 to 2.6	1.2 to 7.5	1.9 to 11.4	2.8 to 17.1	5.3 to 32	7.2 to 43
0.1 to 300	0.00013 to 0.39	0.0002 to 0.66	0.0009 to 2.6	0.003 to 7.5	0.004 to 11.4	0.006 to 17.1	0.011 to 32	0.014 to 43

Masterflex® L/S® Digital Miniflex® Pumps

Small footprint, yet delivers accurate flow over a wide range

- Flow range of 0.005 to 381 mL/min (depending on tubing size)
- Tubing calibration function ensures accuracy
- Open-head sensor stops drive when pump head is opened
- Remote control via 25-pin connector on back of drive
- Automatic tubing retention makes tube loading quick and easy

Compact, stackable pump with durable ABS housing is easy to wipe down. The Miniflex pump head features a wide occlusion angle that prevents fluid backflow up to the rated pressure of the tubing. Self-lubricating thermoplastic polyester rollers are low friction and long wearing for smooth operation and long life.

FEATURES
- ✓ Flow rates: 0.005 to 381 mL/min
- ✓ Intuitive icon-driven programming
- ✓ Tubing calibration for accuracy
- ✓ Single- or dual-channel models

Flow Rates (mL/min) at 0.1 to 300 rpm

Pump model	Precision pump tubing			
	L/S 13	L/S 14	L/S 16	L/S 25
07525-20	0.005 to 14	0.018 to 55	0.061 to 184	0.127 to 381
07525-40	0.005 to 14	0.018 to 55	0.061 to 184	—

MASTERFLEX®

ISO9001:2008 CERTIFIED SUPPLIER

Power supplies are:

Number of channels	rpm	Speed control (repeatability)	Reversible motor	IP rating	Dimensions (L x W x H)	Power (50/60 Hz)		Catalog number	Price
						VAC	Amps		
1	0.1 to 300	±0.1%	Yes	IP33	9.4" x 5.5" x 6.2" (23.9 x 14.0 x 15.7 cm)	90 to 260	0.34 at 115 VAC, 0.2 at 230 VAC	KB-07525-20	
2								KB-07525-40	

KB-07523-92 Foot switch, momentary start/stop; DB25 male; 6-ft (1.8-m) cable

KB-07523-95 Cable assembly, DB25 male connector and 25-ft (7.9-m) cable with stripped wire ends

KB-07523-97 Handheld remote controller, DB25 male, route tubing through handle for dispensing applications; 6-ft (1.8-m) cable

KB-17050-01 NIST-traceable calibration with data for peristaltic pump drive

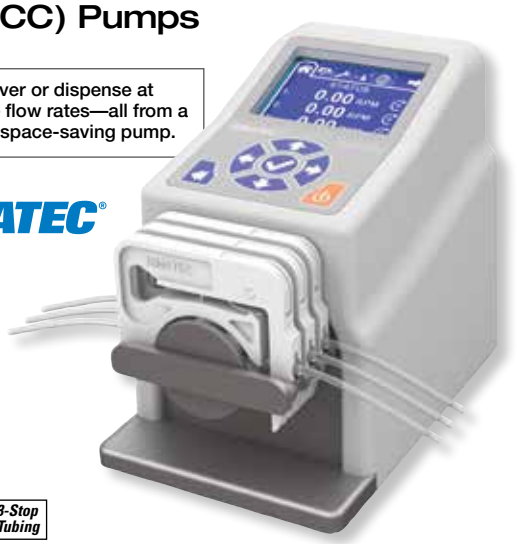
⚠ **WARNING:** This product can expose you to chemicals including BPA, lead, and phthalates, which is known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov

Ismatec® Reglo Independent Channel Control (ICC) Pumps

Pump each channel at different speeds and directions!

Deliver or dispense at multiple flow rates—all from a single space-saving pump.

ISMATEC®



- Each pump performs the job of up to four separate pumps
- Additional options in channel and roller configurations allow balanced pulsation control at desired flow rate
- USB interface for quick computer connections using graphical user-interface

These multi-channel peristaltic pumps let you individually control the flow and direction of each channel from the intuitive keypad or via your computer—expanding your benchtop pumping capabilities with a single compact unit! Pump delivers continuous pumping or precision dispensing up to 43 mL/min with the capability of bidirectional flow in each channel. Plus, independent channel calibration minimizes tube-to-tube differences, resulting in high calibration accuracy.

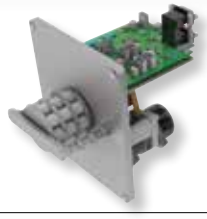
ISO9001:2008 CERTIFIED SUPPLIER CE

Specifications

Speed: 0.1 to 100 rpm **Accuracy:** ±1% **Pressure:** up to 14.5 psi (1.0 bar)

3-Stop Tubing

Channels	Rollers	Tubing	Power (VAC, Hz)	Catalog number	Price
Benchtop pumps					
2	6	Three-stop	100 to 240, 50/60	KB-78001-58	
	8			KB-78001-60	
	12			KB-78001-62	
3	6	Three-stop	100 to 240, 50/60	KB-78001-68	
	8			KB-78001-70	
	12			KB-78001-72	
4	6	Three-stop	100 to 240, 50/60	KB-78001-78	
	8			KB-78001-80	
	12			KB-78001-82	
Panel-mount pumps					
2	8	Three-stop	100 to 240, 50/60	KB-78001-43	
3	8			KB-78001-45	
4	8			KB-78001-47	
4	12			KB-78001-49	



Panel mount configuration can install into custom systems.

Minicartridges

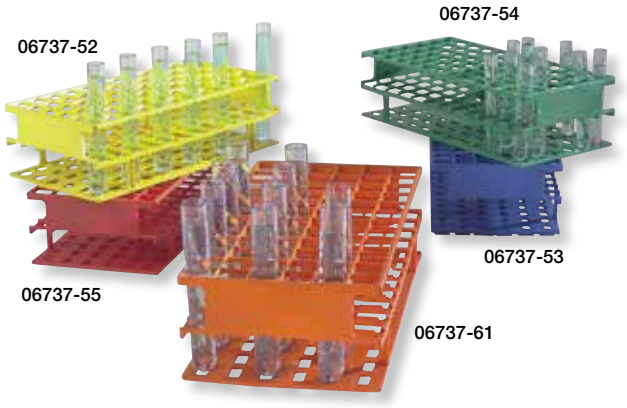
KB-78016-98 Replacement Click'n'go™ tubing cassette, POM-C

KB-78016-96 Click'n'go™ tubing cassette, PVDF

Thermo Scientific™ Nalgene™ Unwire™ Test Tube Racks, Resmer®

Chip, scratch, and corrosion resistant

- Position in waterbaths or freezers with ease
- Autoclavable



Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Tube size (mm)	Tubes held (array)	Color	Qty/pk	Catalog number	Price/pk
13	72 (6 x 12)	White	1	KB-06737-50	
13	72 (6 x 12)	Orange	1	KB-06737-51	
13	72 (6 x 12)	Yellow	1	KB-06737-52	
13	72 (6 x 12)	Blue	1	KB-06737-53	
13	72 (6 x 12)	Green	1	KB-06737-54	
13	72 (6 x 12)	Red	1	KB-06737-55	
16	72 (6 x 12)	White	1	KB-06737-60	
16	72 (6 x 12)	Orange	1	KB-06737-61	
16	72 (6 x 12)	Yellow	1	KB-06737-62	
16	72 (6 x 12)	Blue	1	KB-06737-63	
16	72 (6 x 12)	Green	1	KB-06737-64	
16	72 (6 x 12)	Red	1	KB-06737-65	
20	40 (4 x 10)	White	1	KB-06737-70	
25	40 (4 x 10)	White	1	KB-06737-80	
30	24 (3 x 8)	White	1	KB-06737-90	

Find even more online! Go to ColeParmer.com to search more than 100,000 products.

Test Tube Support System, PP

One rack, virtually limitless versatility

- Rotate cubes to accommodate different tube sizes
- Consists of four cubes and tray
- Autoclavable

Compatible tube sizes	Cat. no.	Price
15- and 50-mL conical; 12 x 75 mm, 13 x 100 mm, 16 x 125 mm, and 17 x 100 mm culture; and 1.5- and 2.0-mL microcentrifuge	KB-06733-00	

Scienceware® Test Tube Racks, PP

Hold samples in baths effectively

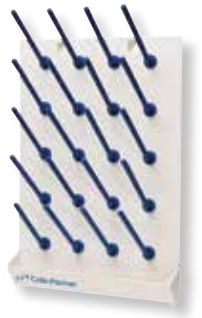
- Open rack drains fluids quickly
- Models 06737-10, -15, and -20 stack with ease
- Autoclavable

Buy More...Save More!
20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Tube size (mm)	Tubes held (array)	Qty/pk	Catalog number	Price/pk
10 to 13	72	1	KB-06737-10	
13 to 16	40	1	KB-06737-15	
16 to 20	40	1	KB-06737-20	
21 to 25	40	1	KB-06737-30	
26 to 30	24	1	KB-06737-40	

Cole-Parmer® Drying/Draining Rack, PP

Don't let water collect



- Draining port allows water to drain back to sink
- Pegs screw-in for removal to accommodate different size labware
- Features 5 tiers; 20 pegs

Cole-Parmer®

Dimensions (W x H x D)		Catalog number	Price
13¾" x 19¼" x 2¼"	34.9 x 48.9 x 5.7 cm	KB-06045-91	

Scienceware® Lab-Aire® II Drying Racks

Configure to your labware

- Reposition pegs to accommodate labware
- Scalloped well drip tray allows for drying of burettes and pipettes
- Won't corrode

Description	No. of pegs	Dimensions (W x H x D)		Catalog number	Price
Single-sided drying racks					
1 tier, benchtop/wall mount	19	16" x 9¼" x 7½"	40.6 x 23.5 x 19.1 cm	KB-06733-91	
2 tier, benchtop 2 tier, wall mount	38	16" x 16¼" x 7½"	40.6 x 41.3 x 19.1 cm	KB-06733-93 KB-06733-98	
3 tier, benchtop 3 tier, wall mount	57	16" x 23¾" x 7½"	40.6 x 60.3 x 19.1 cm	KB-06733-94 KB-06733-99	
Double-sided drying racks					
1 tier, benchtop	38	16" x 9¼" x 10½"	40.6 x 23.5 x 26.7 cm	KB-06733-95	
2 tier, benchtop	76	16" x 16¼" x 10½"	40.6 x 41.3 x 26.7 cm	KB-06733-96	
3 tier, benchtop	114	16" x 23¾" x 10½"	40.6 x 60.3 x 26.7 cm	KB-06733-97	

Wall-mount racks are sized to fit standard pegboards

Cole-Parmer® StableTemp™ Laboratory Refrigerators

Ideal for the requirements of daily lab applications

- Fully insulated chamber ensures minimal temperature fluctuation
- Sliding wire shelves pull out fully for easy access to all samples
- Thermal line recorder for easy tracking of temperature

Our complete line of refrigerators provides the reliability that is essential for your valuable samples in the 2 to 10°C (35 to 50°F) range. Performance is driven on all models by a high-efficiency evaporation system made with low corrosive materials and a fully insulated stainless steel chamber. An intuitive easy-to-use control panel has VFD and touch-sensitive buttons for controlling all the essential functions.

Adjustable full-extension sliding shelves provide efficient and customizable use of interior space and easy access to stored samples. Built-in 50-mm diameter cable port allows use of external temperature probes. Bright fluorescent lighting (except 52412-00 to -02) for convenient viewing of samples. Safety features include high/low temperature and overcurrent protection, open door alarm, automatic fan stop, keypad lock function, and built-in door lock with key permit access control.

What's included: plastic-coated wire sliding shelves and brackets, thermal line recorder, and power cord with plug.

StableTemp

Capacity	Temperature range	Dimensions (W x H x D)		No. of doors	No. of shelves	Max no. of shelves	Power†			Shpg wt lb (kg)	Catalog number	Price
		Interior	Exterior				VAC	Hz	Amps			
5.5 cu ft (156 L)	2 to 10°C (35.6 to 50°F)	21¾" x 22¾" x 19⅝" (55 x 58 x 49 cm)	26⅛" x 31⅛" x 34⅞" (68.3 x 79.1 x 87 cm)	1	2	4	120	60	5	253 (115)	KB-52412-00	
							230	50	2.5		KB-52412-02	
10.7 cu ft (303 L)	2 to 10°C (35.6 to 50°F)	55" x 55" x 100" (21.7 x 21.7 x 39.4 cm)	26⅞" x 30⅜" x 59⅝" (67 x 77 x 151.5 cm)	1	3	7	120	60	5	319 (145)	KB-52412-03	
							230	50	2.5		KB-52412-05	
21.3 cu ft (603 L)	2 to 10°C (35.6 to 50°F)	25⅝" x 25¼" x 57⅛" (65 x 64 x 145 cm)	30⅝" x 34⅛" x 77⅞" (77 x 86.5 x 196.5 cm)	1	3	11	120	60	5	495 (224)	KB-52412-06	
							230	50	4		KB-52412-08	
28.4 cu ft (805 L)	2 to 10°C (35.6 to 50°F)	29½" x 29⅛" x 57⅛" (75 x 74 x 145 cm)	34⅝" x 37⅝" x 77⅞" (87 x 96.5 x 196.5 cm)	1	3	11	120	60	5	605 (274)	KB-52412-09	
							230	50	4		KB-52412-11	
46.9 cu ft (1327 L)	2 to 10°C (35.6 to 50°F)	56⅝" x 25¼" x 57⅛" (143 x 64 x 145 cm)	61" x 34⅛" x 77⅞" (155 x 865 x 196.5 cm)	2	6	22	120	60	10	880 (399)	KB-52412-12	
							230	50	7.5		KB-52412-14	

†Additional voltages available; call for details.

Cole-Parmer® StableTemp™ –86°C Upright ULT Freezers

Optimal efficiency with minimal temperature loss

- Eye-level controls for quick programming and easy viewing
- Individually sealed inner doors minimize frost buildup and temperature loss when open
- Outer door has four gaskets for maximum thermal efficiency
- Multiple alarm features mean you are always aware of any operation errors

These ULT freezers are designed to meet your cold storage needs down to –86°C. High-performance insulation panels in the cabinet minimize heat gain improving temperature stability. Separate inner storage chambers have their own insulated doors which offer independent access to storage space, minimizing frost buildup inside the chambers and providing maximum protection of stored samples. The outer door seal's unique design reduces temperature loss while the door is open, and a robust door latch keeps the door securely closed.

Microprocessor controller is simple to use with push-button control and has an easy-to-read operational status display. Large LED show internal temperature, set temperature, ambient temperature, and input voltage for quick viewing of operation parameters. Other features include USB port for downloading data, sample port for external temperature probe, heated pressure equalization port for easy door opening, and casters for smooth portability.

What's included: power cord and plug.

StableTemp

Capacity	Temperature range	Dimensions (W x H x D)		No. of doors	No. of shelves	Power†			Shpg wt lb (kg)	Catalog number	Price
		Interior	Exterior			VAC	Hz	Amps			
11.9 cu ft (338 L)	–86 to –40°C (–122 to –40°F)	18⅝" x 45¹³⁄₁₆" x 24¹³⁄₁₆" (46.5 x 116.5 x 63 cm)	31⅝" x 72¹¹⁄₁₆" x 35⅛" (81.2 x 184.6 x 89.3 cm)	1 outer, 2 inner	3	115	60	18	612 (277)	KB-44260-03	
						220	50	7.5		KB-44260-01	
17.1 cu ft (486 L)	–86 to –40°C (–122 to –40°F)	23³⁄₁₆" x 51⅝" x 24¹³⁄₁₆" (59 x 131 x 63 cm)	37⅜" x 78" x 35⅞" (94.5 x 198 x 90 cm)	1 outer, 4 inner	3	115	60	18	683 (309)	KB-44260-09	
						220	50	9		KB-44260-04	
20.4 cu ft (578 L)	–86 to –40°C (–122 to –40°F)	24⅞" x 51⅝" x 28³⁄₁₆" (62 x 131 x 71.6 cm)	35¼" x 78" x 38⅝" (89.5 x 198 x 98 cm)	1 outer, 4 inner	3	115	60	18	727 (329)	KB-44260-13	
						220	50	9		KB-44260-11	
25.7 cu ft (728 L)	–86 to –40°C (–122 to –40°F)	30⅛" x 51⅝" x 28³⁄₁₆" (76.6 x 131 x 71.6 cm)	40¹⁵⁄₁₆" x 78" x 38⅝" (104.1 x 198 x 98 cm)	1 outer, 4 inner	3	115	60	18	848 (384)	KB-44260-19	
						220	50	9		KB-44260-17	
29.2 cu ft (828 L)	–86 to –40°C (–122 to –40°F)	34¼" x 51⅝" x 28³⁄₁₆" (87 x 131 x 71.6 cm)	45⅛" x 78" x 38⅝" (114.5 x 198 x 98 cm)	1 outer, 4 inner	3	220	50	9	903 (409)	KB-44260-21	

†Additional voltages available; call for details.

Argos Technologies® Sterile Sampling Scoops, PS

Comfortable, curved handle

- Flat bottom surface helps prevent spillage
- Sterilized by gamma irradiation and packaged individually in sealed easy-open bags

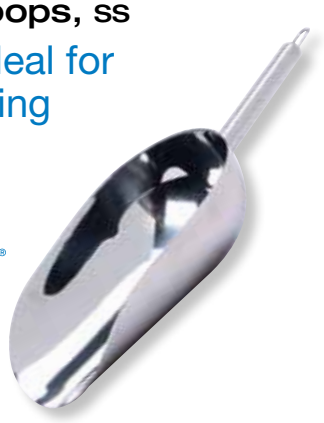
Argos TECHNOLOGIES

STERILE

Capacity mL (oz)	Size (L x W)		Handle length		Catalog number	Qty/cs	Price/cs
	in.	cm	in.	cm			
60 (2)	3	20.3	5	12.7	KB-06260-01	100	
120 (4)	3½	22.9	5	12.7	KB-06260-02	100	

Cole-Parmer® Scoops, SS

Won't corrode—ideal for food-grade sampling



- Choose 304 stainless steel for higher corrosion resistance

Cole-Parmer®

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity mL (oz)	Scoop (L x dia)	Catalog number	Qty/pk	Price/pk
201 Stainless steel scoops				
175 (5.5)	5½" x 3" (14 x 7.6 cm)	KB-07205-01	1	
1550 (52)	10" x 5¾" (25.4 x 14.6 cm)	KB-07205-03†	1	
304 Stainless steel scoop				
1550 (52)	7⅛" x 5¼" (18.1 x 13.3 cm)	KB-07210-00	1	

†Model 07205-03 has a hook on the end for convenient storage.

Scienceware® Sterile Sampling Spoons, PS

Stop washing spoons

- Individually sterilized and bagged in a polyethylene bag
- Ideal for single use

STERILE

Capacity	Handle length	Catalog number	Qty/cs	Price/cs
¼ tsp (1.2 mL)	6⅛" (15.5 cm)	KB-06263-10	200	
½ tsp (2.5 mL)	5⅞" (14.9 cm)	KB-06263-20	200	
1 tsp (4.9 mL)	5½" (14.0 cm)	KB-06263-30	200	
1 tbsp (14.8 mL)	5¼" (13.3 cm)	KB-06263-40	200	

Cole-Parmer® Double-Ended Spoon Set, 304 SS

Sample from both ends

- Minimize discomfort—solid rounded shafts for more comfortable handling

Set contains three spoons: a 5⅞" (14.9 cm) long spoon with 0.5 mL and 2.0 mL bowls, an 8¼" (21 cm) long spoon with 1.6 mL and 5.0 mL bowls, and an 11⅞" (30.2 cm) long spoon with 2.0 mL and 8.0 mL bowls.

Cole-Parmer®

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Qty/set	Catalog number	Price/set*
Three spoons	KB-06261-00	

*One set qualifies as one pack for discount savings.

Scienceware® Sterile Sampling Scoops, PS

No need to presterilize

- Come sterilized in individual polyethylene bags
- Ideal for single use

STERILE

Capacity mL (oz)	Scoop (L x W)		Handle length		Catalog number	Qty/cs	Price/cs
	in.	cm	in.	cm			
60 (2)	3 x 1	7.6 x 2.5	4	10.2	KB-06260-10	100	
120 (4)	3½ x 1	8.9 x 2.5			KB-06260-20		

Rubbermaid® Square Scoop, PE

Stands on end—will not tip over

- Get large quantity scooping easily

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Capacity mL (oz)	Dimensions (L x W x H)	Catalog number	Qty/pk	Price/pk
2000 (64)	8¼" x 6" x 5" (21.0 x 15.2 x 12.7 cm)	KB-06277-00	1	

Cole-Parmer® Orbital Shakers

Designed for problem-free continuous use

- Smooth, uniform circular motion—perfect for both multiwell plates and large flasks
- Fit into environmental chambers and incubators for culturing and aeration applications
- Easily set and read speed and time on the digital display

51700-15

51700-13

Cole-Parmer®

Compact Shaker is ideal for smaller sample sizes of 0.5 to 5 mL in multiwell plates, dishes, and petri dishes. Included flat platform holds up to four standard-sized microwell plates on a nonslip rubber mat. Or order the optional expansion platform to double the plate capacity to eight plates. Choose the optional cradle-type platform with adjustable rubber bars to securely hold four 250-mL flasks or any combination of vessel sizes for maximum flexibility.

Large-Capacity Shaker includes a cradle-type platform with four adjustable rubber bars to hold a variety of bottles and flasks; accommodates twelve 250-mL, nine 500-mL, six 1000-mL, or two 2000-mL Erlenmeyer flasks. A larger cradle platform with six bars is available. Or order the optional flat platform for processing up to twelve standard microwell plates simultaneously.

Specifications

Speed range: 30 to 300 rpm **Timer:** 1 to 999 minutes
Orbit size: 5/8" (16 mm) dia

Platform dimensions	Max load	Overall dimensions (W x H x D)	Power VAC	Power Hz	Catalog number	Price
Compact shaker						
8 21/32" x 8 21/32" (22 x 22 cm)	6.6 lb (3 kg)	9 1/2" x 5 1/2" x 11 7/8" (24 x 14 x 30 cm)	120	60	KB-51700-13	
			230	50	KB-51700-14	
Large-capacity shaker						
13 3/16" x 13 3/16" (33.5 x 33.5 cm)	22 lb (10 kg)	14 1/8" x 10 5/8" x 16 1/2" (36 x 27 x 42 cm)	120	60	KB-51700-15	
			230	50	KB-51700-16	

For Compact Shaker

KB-51700-97 **Cradle platform** with four rubber securing bars
KB-51700-98 **Expansion platform** with nonslip rubber mat. Holds 8 microwell plates
KB-51700-99 **Plastic cover**

For Large-Capacity Shaker

KB-51700-95 **Cradle platform** with six rubber securing bars, measures 20" x 20" (51 x 51 cm). Max speed is 150 rpm
KB-51700-96 **Flat platform** with nonslip rubber mat. Holds 12 microwell plates

Cole-Parmer® Microplate Shakers

Mix micro-volumes effectively

- Digital display ensures reproducible results
- Platform with lip and nonskid mat holds plates securely
- Set built-in timer for up to 9999 minutes or use continuous mode

This shaker operates with a small orbit at high speed. Program a saved time and speed profile for routine tasks with the user-friendly interface. Optional tube adapter racks hold microcentrifuge tubes.

Cole-Parmer®

Specifications

Speed range: 250 to 1250 rpm **Orbit size:** 1/16" (1.5 mm)

Number of plates	Max load	Platform dimensions	Power VAC	Power Hz	Catalog number	Price
4	2.2 lb (1 kg)	8 5/8" x 8 5/8" (22 x 22 cm)	120	60	KB-51900-57	
			230	50	KB-51900-55	
8	4.4 lb (2 kg)	12 1/16" x 12 1/16" (30.6 x 30.6 cm)	120	60	KB-51900-51	
			230	50	KB-51900-53	

KB-51900-97 **Tube holder rack,** 50 x 1.5 mL
KB-51900-98 **Tube holder rack,** 50 x 0.5 mL
KB-51900-99 **Tube holder rack,** 50 x 0.2 mL

Cole-Parmer® Tube Roller Shakers

Get complete mixing

- Rocking and rolling action is ideal when minimum aeration is needed—like viscous substances or liquid-solid suspensions
- Solid construction—use in cold rooms or incubators
- Expand your capacity with optional stacking kit

The 6-roller units offer a space-saving design perfect for incubator use while the larger 9-roller units offer high throughput. Both accommodate most tube and bottle sizes.

Cole-Parmer®

Speed range	Number of rollers	120 VAC, 60 Hz Catalog number	120 VAC, 60 Hz Price	230 VAC, 50 Hz Catalog number	230 VAC, 50 Hz Price
Analog tube roller shakers					
Fixed at 33 rpm	6	KB-04750-22		KB-04750-20	
	9	KB-04750-30		KB-04750-28	
Digital tube roller shakers with built-in timer					
Adjustable from 5 to 60 rpm	6	KB-04750-26		KB-04750-24	
	9	KB-04750-34		KB-04750-32	

KB-04653-09 **Stacking kit** includes four blocks. One kit will stack two shakers; order two kits to stack three shakers

Vortex-Genie Shakers

Maximize high-speed touch mixing

– Won't "walk" across your benchtop

Vortex-Genie® 1 Shaker has a single high-speed mixing action that eliminates operator error for highly reproducible results. Includes pop-off cup; 3" (7.6-cm) platform sold separately below.

Vortex-Genie® 2 Shaker allows you to control speed intensity by varying pressure to the head. The variable speed shaking allows you to adjust the level of mixing from gentle shaking to vigorous vortexing. Easy-to-change platforms allow you to adapt your shaker to a variety of applications. Shaker comes with a pop-off cup for single tube shaking and a standard 3" (7.6-cm) platform for multiple tube or flask shaking. Order optional platform starter kits below to customize the shaker for your application.

Vortex-Genie® 2T Shaker features both touch and hands-free operation. Shake samples from 1 to 60 seconds in touch mode, 1 to 60 minutes in hands-free mode, or continuously in the automatic untimed mode. The 2T shaker accepts all standard Genie attachments and accessories making it an economical addition to you laboratory. Includes pop-off cup and 3" (7.6-cm) platform.

Digital Vortex-Genie® 2 Shaker features both touch and hands-free operation with increased timer range. Shake samples from 1 to 99 seconds in touch mode, 1 to 99 minutes in hands-free mode, or continuously in the automatic untimed mode. Digital display provides accuracy, reproducibility, and repeatability. Accepts all standard Genie attachments and accessories and includes pop-off cup and 3" (7.6-cm) platform.

Vortex-Genie® Pulse Shaker offers true pulsing action, providing more collisions and random motion. Ideal for applications requiring more aggressive action than standard vortexing. Fully programmable—the variable run/stop time provides quick pulsing or interval mixing to keep samples in suspension, or use in continuous mode for vortexing. Featuring digital control and display of speed and time, this shaker will deliver reproducible and accurate mixing. Accepts all standard Genie attachments and accessories and includes pop-off cup and 3" (7.6-cm) platform.

What's included: power cord with plug (no plug on 230 VAC models).

Speed range	Timer range		Platform dimensions	Power			Catalog number	Price
	Touch mode	Hands-free mode		VAC	Hz	Amps		
Vortex-Genie 1 shaker								
600 to 3200 rpm	—	—	1⅛" dia pop-off cup	120	60	0.65	KB-04724-10	
600 to 2700 rpm				230	50/60	0.5	KB-04724-15	
Vortex-Genie 2 shaker								
600 to 3200 rpm	—	—	1⅛" dia pop-off cup, 3" dia platform	120	60	0.65	KB-04724-00	
600 to 2700 rpm				230	50/60	0.5	KB-04724-05	
Vortex-Genie 2T shaker								
600 to 3200 rpm	1 to 60 seconds	1 to 60 minutes	1⅛" dia pop-off cup, 3" dia platform	120	60	0.65	KB-04724-20	
600 to 2700 rpm				230	50/60	0.5	KB-04724-25	
Digital Vortex-Genie 2 shaker								
500 to 3000 rpm	1 to 99 seconds	1 to 99 minutes	1⅛" dia pop-off cup, 3" dia platform	120	60	0.65	KB-04724-40	
				230	50/60	0.5	KB-04724-45	
Vortex-Genie Pulse shaker								
500 to 3000 rpm	0.1 sec to 99 minutes	1 to 99 minutes	1⅛" dia pop-off cup, 3" dia platform	120	60	0.65	KB-04724-38	
				230	50/60	0.5	KB-04724-39	

KB-04724-61 **Platform with cover,** 3" (7.6-cm) dia

KB-04724-60 **Replacement cup** for single tube shaking

KB-04724-70 **Thermoplastic rubber cover** protects standard 3" (7.6-cm) platform

KB-04724-54 **Small ampule shaker attachment**

KB-04724-55 **Large ampule shaker attachment**

KB-04724-57 **TurboMix™ shaker attachment**

KB-04724-63 **Microtube holder** for 12 x 2-mL tubes

KB-04724-64 **Vertical tube holder.** Holds 3 x 50-mL tubes

KB-04724-65 **Vertical tube holder.** Holds 6 x 15-mL tubes

KB-04724-89 **Vertical tube holder.** Holds 6 x 50-mL, 6 x 15-mL, and 12 microtubes

KB-04724-66 **Vertical microtube holder.** Holds 9 microtubes

KB-04724-67 **Molded bottom closure** and screw kit

KB-04724-83 **Platform,** 6" (15.2 cm)

KB-04724-84 **Recessed platform**

KB-04724-85 **Tube insert†,** foam; 9–16 mm. Set of 2

KB-04724-86 **Tube insert†,** foam; 14–29 mm. Set of 2

KB-04724-87 **Tube insert†,** foam; 29–37 mm. Set of 2

KB-04724-88 **Blank insert†,** foam. Set of 2

†Requires recessed platform 04724-84 (sold separately above).

Beaker/Tube Platform Starter Kit includes one recessed platform for beakers up to 250 mL, two elastic bands, and one tube insert assortment set (Set includes one foam insert each for 9 to 16 mm, 14 to 29 mm, and 29 to 37 mm tubes; and one blank insert).

KB-04724-80 **Beaker/tube platform starter kit**

KB-04724-82 **Replacement elastic bands†.** Set of 2

KB-04724-81 **Replacement tube insert assortment†.** Set of 4

†Requires recessed platform 04724-84 (sold separately at left).

Microtube/Microwell Plate Platform Starter Kit contains one 6" (15.2 cm) platform, one 6" (15.2 cm) foam insert for 60 microcentrifuge tubes, and one 6" (15.2 cm) foam insert for a single microwell plate.

KB-04724-50 **Microtube/microwell plate platform** starter kit

KB-04724-51 **Replacement micro tube inserts‡** hold up to 60 microtubes. Pack of 2

KB-04724-53 **Double-tier microwell plate insert**

‡Requires platform 04724-83 (sold separately at left).

Lab Spatulas, Nickel/Stainless Steel

Get precise sampling of powders or salts

- Easy-to-clean finish
- Choose the right end style for your needs

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

End styles	Overall length		Qty/ pk	Catalog number	Price/ pk
	in.	cm			
A. Spooned†/flat	5¾	14.6	3	KB-06369-09†	
B. Spooned†/plastisol handle	6½	16.5	3	KB-06369-03†	
C. Tapered/rounded	8	20.3	3	KB-06369-06	
D. Rounded/rounded	8¼	21.0	3	KB-06369-05	
E. Tapered/rounded	7⅛	18.1	3	KB-06369-07	
F. Squared/rounded	7½	19.1	3	KB-06369-18	
G. Spooned/squared	8⅞	22.5	3	KB-06369-16	

†Hayman type end

Smart Spatula™ Disposable Spatulas, PP

Reduce cross-contamination

- Each spatula has scoop and spatula ends for better sampling
- Flexible design will not shatter even if exposed to liquid nitrogen
- Autoclavable

STERILE

Description	Overall length		Catalog number	Qty/pk	Price/pk
	in.	cm			
A. Blue	8¾	22.2	KB-06265-18	300	
B. Opaque	8¾	22.2	KB-06265-12	300	
C. Opaque, antistatic	5½	14.0	KB-06265-14	300	
D. Green, large	12¼	31.1	KB-06265-16	150	
E. Opaque, sterile	8¾	22.2	KB-06265-20	100	

Spatulas, PP

No more bent spatulas

- Spatulas retain original shape even after flexing
- Get excellent chemical and heat resistance
- Autoclavable

Overall length		Catalog number	Qty/ pk	Price/ pk
in.	cm			
4½	11.4	KB-06283-10	10	
6½	16.5	KB-06283-20	12	
8	20.3	KB-06283-30	12	

Scienceware® Sterile Sampling Spatula, PS

Get more volume per scoop

- Designed to hold twice the volume of standard spatulas
- Break up caked material easily with sturdy edge
- Individually sterilized and bagged

STERILE

Overall length	Catalog number	Qty/cs	Price/cs
9" (22.9 cm)	KB-06262-00	100	

Rubbermaid® Spatulas, PP/Rubber

Scoop, spoon, and spread

- Sturdy polypropylene (PP) handle is permanently bonded to a flexible special rubber blade
- Withstand temperatures to 212°F (100°C)
- NSF-approved

Overall length		Catalog number	Qty/ pk	Price/ pk
in.	cm			
9½	24.1	KB-06278-15	6	
13½	34.3	KB-06278-25	6	
16½	41.9	KB-06278-35	6	

Corning® Single-Use Sterile Spatulas, PS

Save time—no more sterilizing

- Individually sterilized and packaged—gamma irradiated with no Eto residues
- Nontoxic and chemical resistant
- Meet USP Class VI requirements

STERILE

Description	Overall length		Qty/cs	Catalog number	Price/cs
	in.	cm			
A. Tapered blade/spoon	9 1/16	24.6	100	KB-06265-00	
B. Small spoon/spoon	9 1/16	24.6	100	KB-06265-02	
C. Round end/spoon	9 1/16	24.6	100	KB-06265-04	
D. V-scoop/spoon	9 1/16	24.6	100	KB-06265-06	
E. Flat-end/spoon	9 1/16	24.6	100	KB-06265-08	

Cole-Parmer® Visible Spectrophotometers

Get precise results

- Save time and reduce errors with auto-zeroing
- Maintain calibration and prevent damage with end-of-range stop on adjustment knob
- No manual adjustments—built-in filters automatically switch to accommodate wavelength setting

What's included: twelve 10-mm diameter test tubes cuvettes, cuvette adapter, dust cover, and 7-ft (2.1-m) cord with a US standard plug.

Cole-Parmer® ISO9001:2008 CERTIFIED SUPPLIER

Bandwidth		20 nm	10 nm
Catalog number		KB-83055-10	KB-83055-20
Wavelength range		335 to 1000 nm	
Wavelength accuracy		±2 nm	
Photometric ranges	Transmittance	0 to 125% T	0 to 125% T
	Absorbance	0 to 2 A	0 to 1.95 A
	Concentration	—	0 to 1999 C
Output		USB	RS-232 / USB
Power (50/60 Hz)		115/230 VAC switchable	
Price			

Accessories

KB-83055-21 **PC application software** for model 83055-20. Standard Curve, Abs./%T/Conc., and Abs. vs. Time; for Windows® 95, 98, and XP. Includes serial cable 83055-24

KB-83055-22 **Printer cable** for model 83055-20. Male 25-pin to female 9-pin

Find even more online! Go to ColeParmer.com to search more than 100,000 products.

Cole-Parmer® UV/Visible Spectrophotometers

Store and recall 200 test methods

- Leverage software for DNA/RNA/protein and kinetics analysis
- Be more productive with included four-position cuvette holder
- Responds precisely to transmittance changes for better results
- Optional Peltier temperature controller and/or sipper system for total utility
- Create standard curves and get wavelength scanning feature with optional software

What's included: a 7-ft (2.1-m) detachable cord, dust cover, two-position 10-mm cuvette holder, four glass cuvettes, and two quartz cuvettes.

Cole-Parmer® ISO9001:2008 CERTIFIED SUPPLIER

Power (VAC, Hz)		115, 60	230, 50
Catalog number		KB-83059-10	KB-83059-15
Bandwidth		4 nm	
Wavelength range		200 to 1000 nm	
Wavelength accuracy		± 2 nm	
Photometric ranges	Transmittance	0 to 125% T	
	Absorbance	–0.1 to 2.5 A	
	Concentration	0 to 1999 C	
Memory capability		Up to 200 standard curves	
Output		RS-232/USB	
Price			

KB-83057-65 **Software, graphics.** Standard curve, Abs./%T/Conc., Abs. vs time; for Windows® XP

KB-83057-66 **Temperature control system;** 115 VAC, 15 to 40°C. With external controller and Peltier 10 mm cell holder

KB-83057-68 **Sipper system,** 115 VAC. With external controller unit and peristaltic pump; requires flow cell and tubing

KB-83057-74 **Sipper system,** 230 VAC. With external controller unit and peristaltic pump; requires flow cell and tubing

KB-83057-70 **Temperature control/sipper system,** 115 VAC. Combines 83057-66 and 83057-68; requires flow cell and tubing

KB-83057-78 **Flow cell,** glass (visible spectra)

KB-83057-79 **Flow cell,** quartz (UV spectra)

KB-83057-64 **Two-position long cuvette holder,** 100 mm max

Disposable Cuvettes

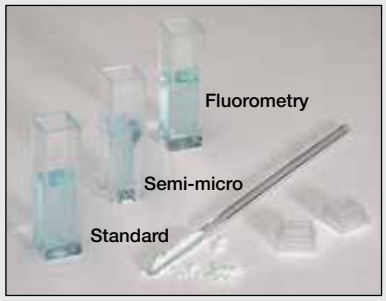
No more washing cuvettes!

Use these economical, single-use cuvettes to obtain consistent spectrophotometric data. Use polystyrene cuvettes for visible spectral analysis; polymethacrylate cuvettes are preferred for UV range testing. Pathlength: 10 mm.

Type	Capacity (mL)	No. of clear sides	Dimensions W x H x D (mm)	Polystyrene		Methacrylate	
				Cat. number	Price/pk of 500*	Cat. number	Price/pk of 500*
Standard	4.5	2	12.5 x 45 x 12.5	KB-06343-10		KB-06343-15	
Semi-micro	1.5			KB-06343-20		KB-06343-70	
Fluorometry	4.5	4	12.5 x 45 x 12.5	KB-06343-60		KB-06343-80	

KB-06343-31 **Cuvette caps,** LDPE. Case of 1000

KB-06343-35 **Cuvette stirring spatulas,** PS. Case of 1000



***Discounts:** Save 10% on 2–9 pks, 15% on 10–39 pks, and 20% on 40+ pks.

Jenway® 74- and 76-Series Spectrophotometers

Day In, Day Out Spectroscopy Just Got Easier!

Intuitive Touchscreen Interface

Large, 7" HD color display makes navigation easy. The touchscreen is fast and responsive, even with gloves.

Versatile Sample Chamber

Large, domed lid provides easy access, even for tall multi-cell chambers or tubes.

Memory & USB Ports

10 GB onboard storage lets you store methods and results, with easy-access USB ports to transfer data or connect a printer.

NEW! Split-Beam Model

Split beam optics offset any signal fluctuations for increased stability over prolonged use, making it ideal for time course and kinetic measurements.

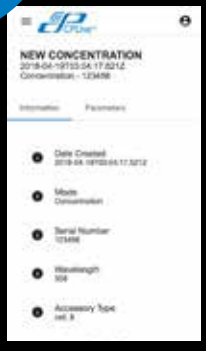
CPLive™

CPLive™ Connectivity

Keep your data secure and easily accessible with CPLive connectivity—results are automatically uploaded and stored in the cloud.

Transfer and store all your spectrophotometry protocols and results to one place, and effortlessly share with colleagues. Simultaneously manage multiple devices through your free CPLive account, via tablet or computer. Or, use the CPLive app on your smartphone.

Learn more at **ColeParmer.com/CPLive**



Description	7410 Visible, single beam	7415 UV/visible, single beam	7415 Nano UV/visible, single beam	7615 UV/visible, split beam	
Catalog number	KB-83056-21	KB-83056-22	KB-83056-23	KB-83056-26	KB-83056-36
Min sample size	3 mL	3 mL	0.5 µL (at 0.2 mm), 1.0 µL (at 0.5 mm)	3 mL	
Bandwidth	5 nm	5 nm		1.5 nm	
Wavelength range	320 to 1000 nm	198 to 1000 nm		198 to 1000 nm	
Wavelength accuracy	±2 nm	±2 nm		±2 nm	
Wavelength reproducibility	±0.5 nm	±0.5 nm		±0.5 nm	
Photometric range	0 to 199.9%, –0.300 to 2.500 A				
Photometric accuracy	±1%T, ±0.01 Abs at 1.000 Absorbance				
Source lamp	Tungsten halogen	Xenon		Xenon	
Housing color	White	White		White	Black
Price					

Specifications

Quantitation range: –300 to 9999

Kinetics measurement time: 2 to 9999 seconds

Spectrum scan interval: selectable 1, 2, 5, or 10 nm

Output: USB Type A x 2, USB Type B x 1, Ethernet (RJ45) connection

Internal memory: 10GB for results and methods

Power: 100 to 240 VAC, 50/60 Hz

Stuart® Digital Round-Top Hot Plate, Stirrer, and Stirring Hot Plate

Innovative fingertip control even while wearing gloves

NEW

- Get precise digital control of heating and stirring
- Advanced brushless motor provides quiet, worry-free operation
- Sealed casing keeps spills away from interior electronics
- Set a safety temperature limit to ensure liquid won't be damaged
- Hot top warning light protects you from accidental burns

Our stylish and sleek units feature a unique control pad that allows all operations to be set using just your fingertip. The LCD shows both set and real-time parameters which are lockable to prevent changes during use. Optimal heating is produced by an integrated temperature sensor and dual PID control that rapidly heats plate and maintains desired temperature. Reverse stirring mode switches the stirring direction every 45 seconds for thorough mixing. Built-in timer can be set for up to 9 hours or continuous operation for each function.

Top plate		Max temperature	Speed range	Max stirring capacity	Power			Catalog number	Price
Dimensions	Material				VAC	Hz	Watts		
Hot plate									
5⁵⁄₁₆" (13.5 cm) dia	Ceramic-coated aluminum	644°F (340°C)	—	—	115 220	50/60	600	KB-04661-23 KB-04661-24	
Stirrer									
5⁵⁄₁₆" (13.5 cm) dia	Ceramic-coated aluminum	—	100 to 1800 rpm	20 L	115 220	50/60	—	KB-04661-29 KB-04661-30	
Stirring hot plate									
5⁵⁄₁₆" (13.5 cm) dia	Ceramic-coated aluminum	644°F (340°C)	100 to 1800 rpm	20 L	115 220	50/60	600	KB-04661-45 KB-04661-46	

Cole-Parmer® elements™ Ultra-Thin Magnetic Stirrer

Ultra-slim design saves valuable space

NEW

- Use simple touch-and-slide bar to set stirring speed and timer
- LCD displays real-time parameters
- Reverse stirring mode allows for thorough mixing
- Set built-in timer for up to 9 hours or continuous operation

Ultra-thin stirrer utilizes advanced magnetic coil technology providing lighter, quieter, and wear-free operation without any moving parts. The unique design makes the stirrer thinner and lighter to be easily stored when not in use.

Top plate	Speed range	Max stirring capacity	Power (VAC, Hz)	Catalog number	Price
Polyester, 4" (10.2 cm) dia	20 to 1500 rpm	1 L	100 to 240, 50/60	KB-84003-71	

Cole-Parmer® elements™ Modular Magnetic Stirrer

Fully customizable—create any configuration you need

NEW

- Attach up to 10 stir plate modules to a single controller
- Use simple touch-and-slide bar to set stirring speed and timer
- Control module features speed display, reverse stirring mode, and timer
- Each stirring module has a corrosion-resistant glass top plate

Simply attach or remove a stir plate module via direct USB connection or with the included cables. Each stir plate edge lights up to allow for accurate positioning of the vessel. Built-in timer can be set for up to 9 hours or continuous operation.

Kit includes: control module, four stir plate modules, USB cords, power cord and AC adapter.

Top plate (stir module)	Speed range	Max capacity per position	Power (VAC, Hz)	Catalog number	Price
Glass, 3.6" (9.2 cm) dia	100 to 1500 rpm	1 L	100 to 240, 50/60	KB-84003-80	

KB-84003-81 **Controller module only;** accepts up to 10 stir plate modules

KB-84003-82 **Additional stir plate module;** requires a controller module to operate

Stuart® Hot Plates and Stirring Hot Plates

Excellent performance for everyday use

- Provide accurate stirring and temperature control
- Spill-resistant front control panel with a chemically toughened glass for extra resilience
- Hot surface warning light flashes when plate temperature is above 50°C
- Durable chip-resistant aluminum top plate offers excellent heat transmission, rapid heating, and even temperature distribution
- Ceramic top plate is chemical resistant and easy to clean, plus the white surface ensures good visibility of color changes

Digital Interface Models feature a digital temperature setting. Stirring speed is displayed by a "hockey stick" LED array with the lights progressively illuminating to represent the speed range.

Premium Interface Models offer a full-color 4" TFT screen which simultaneously displays target settings and the actual temperature and stirring speed of the sample. Individual profiles can be created and saved, allowing for fast setup of complicated experimental procedures. Include PTFE-coated temperature probe.

NEW

Digital color options

Blue White Black

Digital interface with constant digital temperature display

Premium color options

Blue White Black Avocado Red Tangerine Violet Pink

Premium interface with TFT display for temperature and stirring

Top plate		Heating	Stirring		Body color	Power (VAC, Hz)	Digital interface		Premium interface	
Dimensions	Material	Max temp	Speed range	Max capacity			Catalog number	Price	Catalog number	Price
Hot plates										
6" x 6" (15 x 15 cm)	Aluminum	617°F (325°C)	—	—	Blue Black Pink	120, 50/60	KB-04806-24 KB-04806-28 —	—	KB-04806-48 KB-04806-52 KB-04806-62	
	Ceramic	842°F (450°C)			Blue Black		KB-04806-30 KB-04806-34		— —	— —
Stirring hot plates										
6" x 6" (15 x 15 cm)	Aluminum	617°F (325°C)	50 to 1400 rpm (digital); 50 to 2000 rpm (premium)	15 L	Blue Black Pink	120, 50/60	KB-04806-36 KB-04806-40 —	—	KB-04806-64 KB-04806-68 KB-04806-78	
	Ceramic	842°F (450°C)	50 to 1250 rpm (digital); 50 to 2000 rpm (premium)		Blue Black Pink		KB-04806-42 KB-04806-46 —	—	KB-04806-80 KB-04806-84 KB-04806-94	

Finally, a stirring hot plate as unique as you!

Use our online configurator to design your unit in **5 easy steps**

1 Start with a type
2 Select an interface
3 Select the voltage
4 Select top plate material
5 Select color

Go to ColeParmer.com/buildmystirrer and design yours today.

Cole-Parmer® StableTemp™ Stirrers and Stirring Hot Plates

Precision control ensures accurate, repeatable results

- Stay safe—hot surface warning until plate cools below 50°C
- Don't worry about spills—raised display diverts liquids away from critical components
- Optional temperature probe maintains your sample at the set temperature
- Keep samples in place—optional rod and clamps secure containers to the top plate
- Optional splash guard protects you and your sample from mishaps

Advanced Stirrer and Stirring Hot Plate

- Greater accuracy and repeatability for advanced applications
- Set ramp/dwell programs and save settings for quick repeat
- Always know your status—view actual and set values simultaneously
- Protect you and your sample with overtemperature protection

What's included: PTFE-coated stir bar and detachable power cord with plug (EU plug for 230 VAC models). Advanced stirring hot plate also includes a temperature probe kit.

Top plate		Heating		Stirring		Power		Catalog number	Price
Dimensions	Material	Temperature range	Max load	Speed range	Max capacity	VAC	Hz		
Stirrers									
4¼" x 4¼" (10.8 x 10.8 cm)	Ceramic	—	25 lb (11.4 kg)	50 to 1500 rpm	1 L	100 to 120	50/60	KB-03406-01	
						230	50/60	KB-03406-06	
7¼" x 7¼" (18.4 x 18.4 cm)	Ceramic	—	25 lb (11.4 kg)	50 to 1500 rpm	4 L	100 to 120	50/60	KB-03406-11	
						230	50/60	KB-03406-16	
10¼" x 10¼" (26 x 26 cm)	Ceramic	—	25 lb (11.4 kg)	50 to 1500 rpm	6 L	100 to 120	50/60	KB-03406-31	
						230	50/60	KB-03406-36	
Stirring hot plates									
4¼" x 4¼" (10.8 x 10.8 cm)	Ceramic	86 to 1004°F (30 to 540°C)	25 lb (11.4 kg)	50 to 1500 rpm	1 L	100 to 120	50/60	KB-03407-01	
						230	50/60	KB-03407-06	
7¼" x 7¼" (18.4 x 18.4 cm)	Ceramic	86 to 1004°F (30 to 540°C)	25 lb (11.4 kg)	50 to 1500 rpm	4 L	100 to 120	50/60	KB-03407-11	
						230	50/60	KB-03407-16	
10¼" x 10¼" (26 x 26 cm)	Ceramic	86 to 752°F (30 to 400°C)	25 lb (11.4 kg)	50 to 1500 rpm	6 L	100 to 120	50/60	KB-03407-31	
						230	50/60	KB-03407-36	
Advanced stirrer and stirring hot plate									
7¼" x 7¼" (18.4 x 18.4 cm)	Ceramic	—	25 lb (11.4 kg)	50 to 1500 rpm	4 L	100 to 120	50/60	KB-03406-41	
						230	50/60	KB-03406-46	
7¼" x 7¼" (18.4 x 18.4 cm)	Ceramic	86 to 842°F (30 to 450°C)	25 lb (11.4 kg)	50 to 1500 rpm	4 L	100 to 120	50/60	KB-03407-41	
						230	50/60	KB-03407-46	

†Based on water contained in a 20-L glass flat-bottom flask.

Accessories

KB-04600-88 Transparent splash shield for 4¼" x 4¼" units

KB-04600-89 Transparent splash shield for 7¼" x 7¼" units

KB-04600-90 Transparent splash shield for 10¼" x 10¼" units

KB-04600-91 External temperature probe, 100 Ω Pt, stainless steel, 32 to 752°F (0 to 400°C)

KB-04600-92 External temperature probe, 1000 Ω Pt, stainless steel, 32 to 752°F (0 to 400°C)

KB-04600-93 External temperature probe, 1000 Ω Pt, Hastelloy®, 32 to 752°F (0 to 400°C)

KB-04600-98 Support rod for securing sample containers

KB-04600-99 Clamp and holder for securing sample containers

Cole-Parmer® Mono-Mold® and Slim-Line® Stir Bars

Resist spin out at high speeds

- Super-strong alnico V magnets remain coupled to drive magnets even at high speeds
- Chemically inert, low-friction, leakproof PTFE coating provides smooth spinning and maximum energy transfer
- Choose Slim-Line stir bars for slimmer profile and larger length-to-diameter ratio

Size		With spinning ring		Without spinning ring	
Length	Diameter†	Catalog number	Price	Catalog number	Price
Mono-Mold stir bars					
7/16" (11.1 mm)	3/16" (4.8 mm)	—	—	KB-04775-10	
1/2" (12.7 mm)	5/16" (7.9 mm)	KB-08548-00		KB-04770-20	
5/8" (15.9 mm)	5/16" (7.9 mm)	KB-08549-00		KB-04770-30	
1" (25.4 mm)	3/8" (9.5 mm)	KB-08550-00		KB-04770-40	
1 1/2" (38.1 mm)	3/8" (9.5 mm)	KB-08551-00		KB-04770-50	
2" (50.8 mm)	3/8" (9.5 mm)	KB-08552-00		KB-04770-60	
2 1/2" (63.5 mm)	3/8" (9.5 mm)	KB-04775-75		—	—
2 1/2" (63.5 mm)	1/2" (12.7 mm)	—	—	KB-04770-70	
3" (76.2 mm)	1/2" (12.7 mm)	KB-04612-30		KB-04612-40	
Slim-Line stir bars					
1" (25.4 mm)	5/16" (7.9 mm)	KB-04775-45		KB-04775-40	
1 1/2" (38.1 mm)		KB-04775-55		KB-04775-50	
2" (50.8 mm)		KB-04775-65		KB-04775-60	

†Diameter given does not include the diameter of the spinning ring.

Cole-Parmer®

Find even more online!
Go to ColeParmer.com to search more than 100,000 products.

Cole-Parmer® Write-On Colored Tape and Dispenser

Easily identify samples by color-coding

- Withstands water, oil, and acid
- Easy-write surface accomodates pencil, pen, or permanent marker
- Use in temperatures from –10 to 250°F (–23 to 121°C)
- Optional dispenser for easier tearing

Cole-Parmer®

Array of colors and sizes fit conveniently in optional dispenser 06530-11

Color	½" (1.3 cm) W x 14 yd (13 m) L			¾" (1.9 cm) W x 14 yd (13 m) L			1" (2.5 cm) W x 14 yd (13 m) L		
	Cat. no.	Rl/pk	Price	Cat. no.	Rl/pk	Price	Cat. no.	Rl/pk	Price
White	KB-06530-21	6		KB-06530-31	4		KB-06530-41	3	
Yellow	KB-06530-22	6		KB-06530-32	4		KB-06530-42	3	
Green	KB-06530-23	6		KB-06530-33	4		KB-06530-43	3	
Pink	KB-06530-24	6		KB-06530-34	4		KB-06530-44	3	
Red	KB-06530-25	6		KB-06530-35	4		KB-06530-45	3	
Orange	KB-06530-26	6		KB-06530-36	4		KB-06530-46	3	
Blue	KB-06530-27	6		KB-06530-37	4		KB-06530-47	3	
Assorted pack†	KB-06530-28	24		KB-06530-38	16		KB-06530-48	12	

†Assorted pack contains each color above.

KB-06530-11 Tape dispenser

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

Cole-Parmer® Color-Coded Adhesive Tape and Dispenser

No scuffing—adheres to most surfaces

- Easily identify labware, pipes, or wiring
- Optional dispenser provides easy tearing of tape

Cole-Parmer®

Color	¾" (1.9 cm) W x 36 yd (33 m) L		1" (2.5 cm) W x 36 yd (33 m) L	
	Catalog number	Price	Catalog number	Price
White	KB-86209-30		KB-86209-40	
Yellow	KB-86209-31		KB-86209-41	
Orange	KB-86209-32		KB-86209-42	
Red	KB-86209-33		KB-86209-43	
Green	KB-86209-34		KB-86209-44	
Blue	KB-86209-35		KB-86209-45	
Black	KB-86209-37		KB-86209-47	

KB-08278-26 Multiple roll dispenser, acrylic.
For tapes on a 3" (7.6 cm) dia core

Hi-Lo Temperature Fiberglass Tape

Don't worry about temperature

- Ideal for extreme temperature use—withstands temperatures from –385 to 550°F (–232 to 288°C)
- Easily write on textured surface

Width	Length/roll	Catalog number	Price
½" (1.3 cm)	25 ft (7.6 m)	KB-08277-50	
1" (2.5 cm)		KB-08277-55	

Wait!
There's More at ColeParmer.com
Find all the **product specs** you need!

Autoclave Tape

Know your labware is autoclaved

- Dark-colored diagonal mark revealed after autoclaving at 250°F (121°C) for 15 minutes
- Sticks to glass, cloth, or metal
- Leaves no residue

Width	Length/roll	Catalog number	Price
1" (2.5 cm)	41 ft (12 m)	KB-08277-62	

Kapton® Polyimide Tape

Stands up to heat and chemicals

- Silicone adhesive withstands temperatures from –100 to 500°F (–73 to 260°C)
- High tensile strength, good solvent resistance, and excellent dielectric strength for more flexibility
- Meets UL-510 for flame retardant specifications

Width	Thickness (mil)	Length/roll	Catalog number	Price
⅛" (0.3 cm)	2.5	36 ft (10.9 m)	KB-08277-78	
¼" (0.6 cm)			KB-08277-79	
½" (1.3 cm)			KB-08277-80	
¾" (1.9 cm)	2.5	36 ft (10.9 m)	KB-08277-81	
1" (2.5 cm)			KB-08277-82	
1½" (3.8 cm)			KB-08277-83	

Digi-Sense® General-Purpose Digital Pocket Thermometers

Don't risk accuracy—precalibrated†

– 304 stainless steel penetration stem

– All include a protective case with pocket clip and battery

A. Pen-Style Pocket Thermometer offers fast response and laboratory accuracy. Features include probe guard, Min/Max/Hold, °F/°C switchable ranges and auto power-off to conserve battery life. Includes NIST-traceable calibration report.

B. Large Head Pocket Thermometer offers fast response and laboratory accuracy. The head of the thermometer is square allowing the unit not to roll when placed on a flat surface. Features include probe guard, °F/°C switchable ranges and auto power-off to conserve battery life. Includes NIST-traceable calibration report.

C. Waterproof Thermometer features a dishwasher-safe sealed case. Features °F/°C switchable ranges, a Min/Max button, and display updates every second.

D. Traceable® Water-Resistant/Shockproof Thermometer is ideal for wet labs, washdown areas, and field use. Features °F/°C switchable ranges, a Min/Max button, and one-second sampling rate. Includes NIST-traceable calibration report.

E. Traceable® Key-Chain "Mini" Thermometer is pocket sized and perfect for carrying around anywhere. Clip onto a lab coat, jacket zipper, belt loop, backpack, or key ring. Features °F/°C switchable ranges and display updates every second. Includes NIST-traceable calibration report.

F. Traceable® Long-Stem Thermometers have an 8" or 11½" long stem, °F/°C switchable ranges, and display updates every second. Includes NIST-traceable calibration report.

G. Traceable® Rotating-Display Thermometer can be angled up to 180° for easy reading. Extra-long 8" stem is ideal for measuring reagents, water baths, air, liquids, and any semisolid. Features °F/°C selection. Includes NIST-traceable calibration report.

H. T-Handle Thermometer is designed for penetrating semisolids and features °F/°C switchable ranges. Display updates every second. Use auto shutoff to conserve battery life.

I. Pen-Style Thermometer has °F/°C switchable ranges and display updates every second. Data Hold button freezes readings.

J. Traceable® Pen-Style Thermometer has a unique, flat-profile design. Probe guard snaps into handle to extend the overall length to 10¾" making it ideal for hard-to-reach locations. Features °F/°C switchable ranges, Hold button, and a display update every second. Includes NIST-traceable calibration report.

Key letter	Range	Resolution	Accuracy†	Probe diameter	Catalog number	Price
A	–40 to 482°F (–40 to 250°C)	0.1°F (0.1°C)	1.5% ± 2° full scale	4.6"L x 0.16" dia	KB-20250-33	
B	–40 to 482°F (–40 to 250°C)	0.1°F (0.1°C)	1.5% ± 2° full scale	5"L x x0.16" dia	KB-20250-32	
C	14 to 392°F (–10 to 200°C)	0.1° up to 199.9°; 1° above 200°	±1.8°F (±1.0°C)	5"L x 0.14" dia	KB-90003-00†	
D	–58 to 572°F (–50 to 300°C)	0.1° from –20 to 200°; 1° outside this range	±1.8°F (±1.0°C)	8"L x 0.14" dia	KB-90205-05	
E	–58 to 302°F (–50 to 150°C)	0.1°F (0.1°C)	±1.8°F (1.0°C)	1"L x 0.14" dia	KB-90205-10	
F	–58 to 302°F (–50 to 150°C)	0.1° from –19 to 199.9°; 1° outside this range	±1.8°F (±1°C)	8"L x 0.14" dia	KB-90225-15	
	–58 to 302°F (–50 to 150°C)	0.1° from –19 to 199.9°; 1° outside this range	±0.5°F (±0.2°C)	8"L x 0.14" dia	KB-90205-01	
	–58 to 572°F (–50 to 300°C)	0.1° from –19 to 199.9°; 1° outside this range	±1.8°F (±1°C)	11.5"L x 0.14" dia	KB-94460-40	
	–58 to 302°F (–50 to 150°C)	0.1° from –19 to 199.9°; 1° outside this range	±0.5°F (±0.2°C)	11.5"L x 0.14" dia	KB-90205-02	
G	–58 to 536°F (–50 to 280°C)	0.1° from –20 to 200°F; 1° outside this range	±1.8°F (1.0°C)	8"L x 0.14" dia	KB-90205-25	
H	–58 to 302°F (–50 to 150°C)	0.1° from –19 to 199.9°; 1° outside this range	±1.8°F (±1.0°C)	5.3"L x 0.14" dia	KB-90051-00†	
I	–58 to 572°F (–50 to 300°C)	0.1° from –19 to 199.9°; 1° outside this range	±2°F (±1.5°C)	2.5"L x 0.16" dia	KB-90001-02†	
J	–58 to 572°F (–50 to 300°C)	0.1° from –20 to 200°F; 1° outside this range	±3°F (1.5°C)	3.5"L x 0.14" dia	KB-90205-15	

†These models do not come precalibrated. †Basic accuracy shown, full accuracy available online

KB-17003-00 **NIST-traceable recalibration** with data for pocket thermometers

Digi-Sense® Data Logging Refrigerator Thermometers with TraceableLIVE® Wireless Technology

Get alerts before you lose valuable samples

- Remotely monitor your critical environments 24/7 via Wi-Fi†
- View current conditions anywhere—cloud-based interface sends email, text, and push notifications
- Connect to data via smartphone, tablet, or PC
- No software required—web, Android™, Apple® iOS data visibility
- Models with bottle probes are temperature-buffered to protect sensor from rapid changes when refrigerator door is opened.
- Use included hook-and-loop fastener and magnetic strip for surface mounting, or use the built-in stand

94460-00

94460-10

Digi-Sense data loggers with TraceableLIVE wireless technology provide a simple, efficient, and reliable way to ensure your critical samples are not compromised due to parameter variations. This latest technology is ideal for monitoring a process in real time, any time. Plus you get the value, accuracy, and peace of mind of NIST-traceable calibration at a noncalibrated price.

TraceableLIVE allows you to view current conditions from anywhere with a cloud-based interface. Once setup is complete, you can view conditions in real time; set alarm parameters; view data logging history; generate data reports in real time; get email, text and push notifications; and receive alerts for temperature alarm, connectivity interruption and low battery.

†Requires a low-cost TraceableLIVE subscription.

DIGI-SENSE

CE

Specifications

Display: dual-line LCD
Sample rate: 12 sec
Max storage: 672 records (7 days if set to 15-minute intervals)
Max stored alarms: 100
Power: four AAA alkaline batteries (included)

Sensor type	Range	Resolution	Accuracy	Catalog number	Price
2 Bottle probes	–58 to 140°F (–50 to 60°C)	0.01°	±0.45°F (±0.25°C)	KB-99460-00	
1 Bottle and 1 bullet probe				KB-99460-05	
2 Bullet probes				KB-99460-10	
2 Stainless steel probes				KB-99460-15	

Digi-Sense® Traceable® Excursion-Trac™ Data Logging Thermometers

Rolling memory retains most recent 525,600 temperature observations

- Get accurate, reliable measurements with included NIST-traceable calibration
- Memory can be cleared after downloading data and alarm events
- Set limits for and store up to 10 unique alarm events
- Smart-Alarm™ with visual/audible alarm continues to alert even if conditions return to normal
- Triple-line display shows high, low, and current temperature simultaneously

94460-09

Easily monitor temperatures overnight or for any time period—minimum and maximum temperatures are stored until the memory is cleared. Set high and low alarms in 1° increments; alarm sounds when temperature rises above or falls below set points. The alarm tracking feature stores data for up to 10 different alarm events detailing when the alarm state occurred, as well as when the unit returned within range. Alarm state indicator includes visual LEDs, audio alerts, and flashing LCD segments.

Bottle probes contain nontoxic glycol solution which simulates the temperature of other stored liquids and eliminates the rapid temperature fluctuation caused by opening the refrigerator/freezer door. Use standard **Bullet probe** to measure air and liquid temperatures. Bullet probe sensor and cable may be completely immersed. Sensor measures ¾"L x 0.187" dia. Durable **SS probes** withstand both low and high temperatures and are ideal for measuring temperatures of air, liquids, and semisolids. Sensor stem measures 6.25"L x ⅛" dia.

DIGI-SENSE

CE

Specifications

Sampling rate: 5 sec (10 sec for models 98768-53, 54, -57, and -58)
Logging interval: user selectable from 1 min to 24 hrs
Memory†: most recent 525,600 readings
Power: two AAA 1.5 V batteries (included)

Temp. range	Accuracy	Included probe(s)	Cat. no.	Price
–58.00 to 158.00°F (–50.00 to 70.00°C)	±0.45°F (±0.25°C)	1 glass bottle probe	KB-94460-07	
		2 glass bottle probes	KB-94460-09	
		1 vaccine bottle probe	KB-98767-63	
		2 vaccine bottle probes	KB-98767-64	
		1 plastic bottle probe	KB-98767-67	
		2 plastic bottle probes	KB-98767-68	
		1 Bullet probe	KB-94460-11	
		2 Bullet probes	KB-94460-14	
		1 glass bottle, 1 bullet probe	KB-94460-18	
		1 SS probe	KB-94460-16	
		2 SS probes	KB-94460-17	
–130.00 to 221.00°F (–90.00 to 105.00°C)	±0.36°F (±0.2°C)	1 SS probe	KB-98768-53	
		2 SS probes	KB-98768-54	
–328.00 to 221.00°F (–200.00 to 105.00°C)	±0.45°F (±0.25°C)	1 SS probe	KB-98768-57	
		2 SS probes	KB-98768-58	

†All data stored in Celcius (°C) and date format is MM/DD/YYYY.

Digi-Sense® Traceable® General-Purpose and Refrigerator/Freezer Thermometers

Get multiple readings simultaneously

- Simultaneously view high, low, and current temperature
- Keep samples safe—programmable alarm alerts when temperature deviates from set point
- Monitor conditions—Min/Max feature stores the highest and lowest readings until cleared
- Get more done—monitor multiple applications with dual-probe units
- Versatile units are mountable on wall or benchtop

A

D

Standard Refrigerator/Freezer Thermometers provide accurate readings even when door is opened, as temperature sensor is enclosed within a glycol-filled bottle.

Advanced Thermometers feature high accuracy, one-button field calibration, and date/time stamp. Unit displays the exact time and date when thermometer alarms are triggered. RTD thermometers provide greater accuracy and a unique Min/Max feature that displays temperatures for previous 24 hours (each hour) or previous 31 days (for each day).

"Great thermometers."

Data Logging Thermometers record up to 525,600 data points to be transferred to a computer using a USB flash drive. The alarm tracking feature stores up to 10 unique alarm events. "Memory lock" option does not allow the internal memory to be cleared, and logging capacity increases to 1 million data points.

What's included: one AA battery and NIST-traceable calibration certificate.

E

Application	Sensor type	Range	Resolution	Accuracy	Power	Catalog number	Price
A. Standard thermistor models							
Refrigerator/freezer	One bottle probe	–58 to 158°F (–50 to 70°C)	1°	±1°C	One AA battery (included)	KB-94460-72	
Refrigerator/freezer	One 5-mL bottle probe					KB-94460-71	
General purpose	One wire probe					KB-94460-70	
B. Advanced thermistor models with improved accuracy (not shown)							
Refrigerator/freezer	Two bottle probes	–58 to 158°F (–50 to 70°C)	0.01°	±0.30°C	One AA battery (included)	KB-94460-92	
General purpose	Two wire probes					KB-94460-91	
General purpose	One solid SS probe					KB-94460-98	
General purpose	Two solid SS probe					KB-94460-99	
C. Advanced thermistor models with improved accuracy and data logging (not shown)							
Refrigerator/freezer	One bottle probe	–58 to 158°F (–50 to 70°C)	0.01°	±0.25°C	One AA battery (included)	KB-94460-07	
Refrigerator/freezer	Two bottle probes					KB-94460-09	
General purpose	One wire probe					KB-94460-11	
General purpose	Two wire probes					KB-94460-14	
General purpose and refrigerator/freezer	One wire and one bottle probe					KB-94460-18	
General purpose	One solid SS probe					KB-94460-16	
General purpose	Two solid SS probes					KB-94460-17	
D. Advanced thermistor models with improved accuracy and "memory lock" data logging							
Refrigerator/freezer	One bottle probe	–58 to 158°F (–50 to 70°C)	0.01°	±0.25°C	One AA battery (included)	KB-94460-37	
Refrigerator/freezer	Two bottle probes					KB-94460-39	
General purpose	One wire probe					KB-94460-41	
General purpose	Two wire probes					KB-94460-43	
General purpose and refrigerator/freezer	One wire and one bottle probe					KB-94460-47	
General purpose	One solid SS probe					KB-94460-44	
General purpose	Two solid SS probes					KB-94460-46	
E. Advanced RTD high-accuracy models							
Refrigerator/freezer	One bottle probe	–58 to 158°F (–50 to 70°C)	0.01°	±0.1°C	One AA battery (included)	KB-37803-88	
General purpose	One wire probe					KB-37804-03	
General purpose	One wire probe	–148 to 158°F (–100 to 70°C)				KB-37804-05	
General purpose	One solid SS probe	–148 to 199.99°F (–100 to 199.99°C)				KB-37804-04	

Don't Get Burned—Gain More Confidence in Your Readings

Digi-Sense® Precalibrated Thermocouple Thermometers

- Compact, affordable units provide accurate and dependable readings
- No need to worry about reading measurements—large, backlit LCD makes readings easy

General-Purpose Thermocouple Thermometers accept both type K or J thermocouple probes with mini-connector. The two- and four-channel models provide data logging of up to 18,000 readings; USB interface lets you easily download data to a PC for analysis with included software.

Professional Thermocouple Thermometers with IR Input deliver accurate readings in an ergonomic design. Models accept type K probes and an optional infrared (IR) wand for noncontact measurements from a distance. Two- and four-channel models continually scan each channel for real-time measurements. Data logging models allow you to download and analyze data fully.

20250-01

20250-17

- ✓ **Save time and money—** precalibrated to NIST-traceable standards before you receive it
- ✓ **Don't let** probe errors interfere with readings—electronic offset compensates for errors
- ✓ **Choose your readout—** measures in °F, °C, or Kelvin (K) with 0.1 resolution
- ✓ **Features** for your convenience:
  - Min/Max/Avg
  - Hold
  - Relative time stamp
  - Auto-off to save battery life
- ✓ Take measurements from a distance with **optional infrared wand** on Professional series

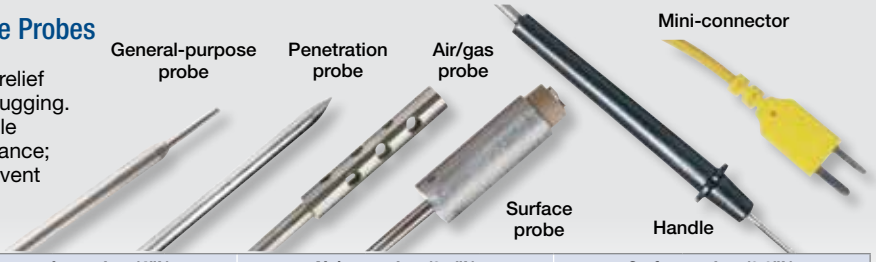
Description	General-purpose thermometers			Professional thermocouple thermometers with IR input			
Catalog number	KB-20250-01	KB-20250-02	KB-20250-03	KB-20250-18	KB-20250-17	KB-20250-19	KB-20250-20
Thermocouple (T/C) inputs	1 (type K or J)	2 (type K or J)	4 (type K or J)	1 (type K)	2 (type K)	2 (type K)	4 (type K)
T/C range	K: –328 to 2501°F (–200 to 1372°C) J: –346 to 2012°F (–210 to 1100°C)			K: –328 to 2501°F (–200 to 1372°C)			
IR range	—			–31 to 1022°F (–35 to 550°C), with optional IR wand 20250-24			
Resolution	0.1°F/C below 1000°, 1°F/C above 1000°			0.1°F/C below 1000°, 1°F/C above 1000°			
T/C accuracy	Above –148°F (–100°C): ±[0.5% rdg + 1.8°F (1°C)] Below –148°F (–100°C): ±[0.5% rdg + 3.6°F (2°C)] Differentials: ±[0.5% rdg + 3.6°F (2°C)]			Above –148°F (–100°C): ±[0.15% rdg + 1.8°F (1°C)] Below –148°F (–100°C): ±[0.5% rdg + 3.6°F (2°C)] Differentials: ±[0.5% rdg + 1.8°F (1°C)]			
IR accuracy	—			Above 14°F (–10°C): ±[2.0% rdg + 3.6°F (2°C)]; Below 14°F (–10°C): ±9°F (5°C); T/C–IR differentials: ±[2.0% rdg + 5.4°F (3°C)] above 14°F (–10°C); ±11°F (6°C) below 14°F (–10°C)			
Data logging	No	18,000 points		No		18,000 points	10,000 points
USB interface	No	Yes		No		Yes	
Temp differential	No	Yes		Yes			
Scan function	No			No	Yes		
Price							

KB-20250-24 **Optional infrared wand** for professional thermocouple thermometers only. Features 8:1 distance-to-spot ratio. Measures 6½" x 2" x 1½" (16.4 x 5 x 4 cm). Includes one 9 V battery

Precalibration provided by
INNOCAL®
Precalibration I Recalibration
1-866-InnoCal (1-866-466-6225)
InnoCalSolutions.com

Some of Our Most Popular Thermocouple Probes

All probes include a 5-ft coiled cord with strain relief spring that protects from repeated flexing and tugging. Ergonomic, easy-to-grip glass-filled nylon handle provides maximum insulation and impact resistance; fingerstops prevent fingers from sliding and prevent probe from rolling. Rugged thermoset plastic miniconnector also included.



Probe Type	General-purpose probes (5"L)			Penetration probes (4"L)			Air/gas probes (8.5"L)			Surface probes (9.9"L)		
	Max temp	Cat. no.	Price	Max temp	Cat. no.	Price	Max temp	Cat. no.	Price	Max temp	Cat. no.	Price
J	1400°F (760°C)	KB-08517-55		1400°F (760°C)	KB-08517-65		1000°F (537°C)	KB-08517-75		1200°F (649°C)	KB-08517-60	
K	1652°F (900°C)	KB-08516-55		1652°F (900°C)	KB-08516-65		1000°F (537°C)	KB-08516-75		1200°F (649°C)	KB-08516-60	
T	752°F (400°C)	KB-08500-55		752°F (400°C)	KB-08500-65		1000°F (537°C)	KB-08500-75		650°F (343°C)	KB-08500-60	

Digi-Sense® Precalibrated Thermometers

Perfect for the lab to production floor

- Reliable measurements, guaranteed! Precalibrated to NIST-traceable standards
- Electronic offset function allows compensation of probe errors
- Robust, reliable handheld temperature meters work in tough environments

Single-Input Thermometers feature an easy-to-use control panel, Min/Max and Hold functions, offset adjustment, °F/°C selection, backlit display, low-battery indicator, and auto shutoff.

Dual-Input Data Logging Thermometers store up to 16,000 sets of readings in real time, and data can be downloaded to your PC via a USB port. Logging interval is selectable from 1 second to 60 minutes. Meters also feature Min/Max, Hold, and average functions; differential temperature; offset adjustment; °F/°C selection; time stamp/clock; out-of-range alarm with audible/visible indicator; backlit display; low-battery indicator; and auto shutoff.

What's included: protective rubber armor boot with built-in stand, one 9 V battery, and NIST-traceable calibration report with data. Data logging models 20250-92, -94, and -96 also include a USB cable and software.

DIGI-SENSE

Specifications

Input type	Range
J	–328 to 1832°F (–200 to 1000°C)
K	–418 to 2501°F (–250 to 1372°C)
T	–418 to 752°F (–250 to 400°C)
Thermistor	–40 to 257°F (–40 to 125°C)
RTD	–320 to 1562°F (–200 to 850°C)

Power: one 9 V battery (included)

Models 20250-92, -94, -96: Data logging: 16,000 sets of readings

Description	Resolution	Accuracy	Catalog no.	Price
Thermocouple meters				
Single input	0.1°F (0.1°C) from –148 to 1832°F (–99.9 to 999.9°C); 1°F (1°C) outside range	±1% of reading + 1.8°F (1°C) below –148°F (–99.9°C); ±1% of reading + 0.9°F (0.5°C) above –148°F (–99.9°C)	KB-20250-91	
Dual input with data logging			KB-20250-92	
Thermistor meters				
Single input	0.1°F (0.1°C)	±0.9°F (±0.5°C) from 32 to 158°F (0 to 70°C); ±2°F (1°C) outside range	KB-20250-93	
Dual input with data logging			KB-20250-94	
RTD meters				
Single input	0.1°F (0.1°C) from –148 to 1562°F (–99.9 to 850°C); 1°F (1°C) outside range	±1.5°F (0.8°C) from –148 to 392°F (–99.9 to 199.9°C); ±2°F (1°C) ±0.5% of reading outside range	KB-20250-95	
Dual input with data logging			KB-20250-96	

Find even more online! Go to ColeParmer.com to search more than 100,000 products.

Digi-Sense® 12-Channel Scanning Thermocouple Thermometer

No need to juggle twelve different data logging thermometers

- Each channel is independently programmable with thermocouple type and alarm conditions
- Large full-color LCD displays each channel simultaneously
- Log up to 296,296 data points and download or stream to PC

This 12-channel scanning thermometer simultaneously monitors different temperature processes and provides real-time data on your PC with the supplied data acquisition software. The unit also functions as a data logger, storing readings in internal nonvolatile memory for later download.

Audible and visible alarms alert you when a channel logs a temperature exceeding the high or low set point. Accepts thermocouple temperature probes (order separately).

What's included: data acquisition software, 4 GB USB flash drive, and 5-ft (1.5-m) detachable power adapter.

DIGI-SENSE

Type	Range	Power	Catalog number	Price
J	–310 to 1832°F (–190 to 1000°C)	120/240 VAC, 50/60 Hz	KB-92000-01	
K	–328 to 2502°F (–200 to 1372°C)			
T	–200 to 752°F (–200 to 400°C)			

Specifications

Resolution: 0.1°
Accuracy: ±0.1% full-scale
Output: USB
Scan rate: 2, 4, 6, 8, 10, 20, 30 seconds
Dimensions (W x H x D): 6" x 4" x 6½" (15.2 x 10.2 x 16.5 cm)

Accessories

KB-17103-00 **NIST-traceable calibration** with data for 12-channel scanning thermometers
KB-17103-12 **NIST-traceable calibration** with data for 12-channel scanning thermometer system

Digi-Sense® Traceable® Table/Wall-Mount Thermometers

Don't be caught off guard

– Alarm provides alert when temperature rises above or falls below a set point

Display simultaneously shows maximum, minimum, and current probe temperatures. Min/Max monitors high/low readings for any time period. Model 94460-74 is supplied with the temperature sensor enclosed in a nontoxic glycol-filled bottle, protecting it from rapid temperature changes when refrigerator door is opened. Model 94460-73 has the temperature sensor enclosed in a 5-mL bottle, allowing it to fit into a tray while protecting it from rapid temperature changes.

What's included: hook-and-loop fastener and magnetic strips, one AAA alkaline battery, and NIST-traceable calibration certificate.

DIGI-SENSE

Application	Sensor type	Range	Resolution	Accuracy	Cat. no.	Price
General purpose	Wire probe	–58 to 158°F (–50 to 70°C)	0.1°	±0.5°	KB-94460-88	
Refrigerator/ freezer	Bottle probe				KB-94460-74	
Refrigerator/ freezer	5-mL bottle probe				KB-94460-73	

KB-09376-00 **Replacement batteries,** AAA. Pack of 12

KB-17101-61 **NIST-traceable recalibration** with data for digital indicator

Extech® Waterproof Temperature Indicators

Won't fail under occasional splashing

– Waterproof, dustproof housing is IP65-rated

– Won't permit out-of-range failures—visual and audible alarms alert you to under- and over-range conditions

Indicators feature selectable temperature scale (°F/°C), high/low set points, Min/Max reading, data hold, alarm icons, and low-battery indicator.

What's included: probe, magnetic back, foot stand, and battery.

Model	TM20	TM25	TM26
Catalog number	KB-95001-55	KB-95001-56	KB-39758-99
Range	–40 to 158°F (–40 to 70°C)	–40 to 392°F (–40 to 200°C)	
Resolution	0.1°F or °C		
Accuracy	±0.9°F (0.5°C) from 32 to 75°F (0 to 24°C); ±1.8°F (1.0°C) from –4 to 31°F (–20 to –1°C) and 76 to 120°F (25 to 49°C); ±3.6°F (2.0°C) from –40 to –5°F (–40 to –21°C) and 121 to 392°F (50 to 200°C)		
Probe	¾" (20 mm) blunt tip with 9.6-ft (2.9-m) cable	4" (105 mm) penetration tip with 5-ft (1.5-m) cable	
Certifications	—	—	NSF
Power	One CR2032, 3 V battery (included)		
Price			

Fluke® Thermocouple Thermometers

Stand up to your demands

– Rugged, splash- and dust-resistant housing

– Models 53 and 54 include data logging to 500 points of internal memory, time-stamped

Dual backlit display provides readout of channel temperature, differential temperature (dual-input models), and Min/Max/Avg readings with time stamp of all channels simultaneously.

What's included: one type K bead thermocouple per input channel and protective holster.

Specifications

Range†:
J: –346 to 2192°F (–210 to 1200°C)
K: –328 to 2501°F (–200 to 1372°C)
T: –418 to 752°F (–250 to 400°C)
E: –238 to 1832°F (–150 to 1000°C)
N: –328 to 2372°F (–200 to 1300°C)
R and S: 32 to 3216°F (0 to 1767°C)

Resolution:
0.1°F/°C <1000°; 1°F/°C >1000°

Accuracy†:
Above –148°F (–100°C):
J, K, T, E, N: ±(0.05% + 0.3°C)
R and S: ±(0.05% + 0.4°C)
Below –148°F (–100°C):
J, K, E, N: ±(0.20% + 0.3°C)
T: ±(0.50% + 0.3°C)

Power: Three AA batteries

Model	Description	Cat. no.	Price
51-II	Single-input (types J, K, T, E)	KB-91500-04	
52-II	Dual-input (types J, K, T, E)	KB-91500-06	
53-II-B	Data logging single-input (types J, K, T, E, R, S, N)	KB-91500-08	
54-II-B	Data logging dual-input (types J, K, T, E, R, S, N)	KB-91500-10	

Extech® EasyView® Thermocouple Thermometers

Large, high-contrast LCD for easier viewing

– Wide temperature range with 0.1°/1° resolution

– Data Hold function freezes reading on display

– Records Min/Max/Avg readings for later recall

– EA10 features timer function that displays elapsed time plus the time when Min/Max readings are taken

– EA11A allows you to manually store/recall up to 150 readings

Model number	Description	Catalog number	Price
EA10	Dual-input type K thermocouple thermometer; –200 to 1999.9°F, –200 to 1360°C, 70 to 1630K	KB-95001-06	
EA11A	Single-input type K thermocouple thermometer; –58 to 1999.9°F, –50 to 1300°C	KB-95001-05	

Accessories

KB-95001-80 **Type K general-purpose temperature probe**

KB-17002-10 **NIST-traceable calibration** with data for thermocouple meter with probe

Digi-Sense® Precalibrated Infrared Thermometers

Save money and prevent breakdowns—easily locate hot and cold spots

- Reliable measurements—guaranteed! Precalibrated to NIST-traceable standards
- Get easy readings from a distance—just aim, pull trigger and read!
- Continuous scanning via trigger lock

DIGI-SENSE®

General-Purpose IR models feature Min/Max and Hold functions, °F/°C units, single targeting laser, and large backlit LCD for easy reading. Models 20250-05 and -06 also offer adjustable emissivity and temperature alarm with indicator.

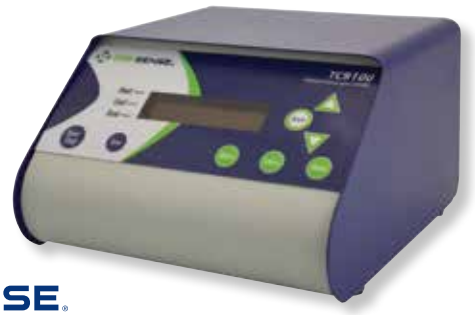
Professional IR models provide high distance-to-sight ratio and enhanced temperature range in a heavy-duty housing. Get a more precise measurement area with dual targeting lasers and external type K thermocouple (one included). Feature Min/Max/Avg and Hold, temperature differential, high/low alarms, adjustable emissivity, data logging, and more.

NEW! Smart Professional IR model features Bluetooth® connectivity for real-time data viewing on your smartphone. All data is transmitted directly from the meter to your Android™ or iOS® mobile device via our free downloadable app. Readings are automatically stored in the app and can be saved as a CSV file and emailed for future reference or analysis to help determine trends and conditions over a long period of time.

Description	General-purpose IR thermometers			Professional IR thermometers		Professional IR with Bluetooth
Catalog number	KB-20250-04	KB-20250-05	KB-20250-06	KB-20250-07	KB-20250-08	KB-20250-25
Range (IR)	–4 to 630°F (–20 to 332°C)	–31 to 1000°F (–35 to 537°C)	–31 to 1472°F (–35 to 800°C)	–58 to 3002°F (–50 to 1650°C)	–58 to 3362°F (–50 to 1850°C)	–58 to 3362°F (–50 to 1850°C)
Distance-to-sight ratio	10:1	12:1	20:1	30:1	50:1	
Emissivity	0.95 fixed	0.10 to 1.0 adjustable		0.10 to 1.0 adjustable		
Laser sighting	Single Class II laser			Dual Class II laser		
Temperature alarm	No	Yes		Yes		
USB interface	No			Yes (cable and software included)		
Data logging	No			100 internal readings		32,000 internal readings
Power	One 9 V battery			One 9 V battery		
Price						

Digi-Sense® Benchtop Temperature Control Consoles

Direct plug-in of heating or cooling devices



DIGI-SENSE®

ISO 9001:2008 CERTIFIED SUPPLIER

TC9100 Model

- Input for most commonly used thermocouple types
- Simple on/off to sophisticated PID control
- Simultaneous view of both the measured and set point on the two-line alphanumeric display
- Offset function allows you to correct for probe error
- Mount to lab frame or grid with built-in support bracket

TC9600 Data Logging Model Adds:

- Thermistor and RTD input
- Ramp rate and ramp-and-soak profiling for more complex processes
- USB computer interface and free software that features real-time graphing and programming setup
- Data log more than 100 K data points in adjustable increments from 1 second to 999 seconds

Model	Control output (50/60 Hz)‡	Control output load	Power‡	Catalog number	Price
TC9100 (thermocouple)	120 VAC	15 A max	120 VAC	KB-89800-11	
	240 VAC	10 A max	240 VAC	KB-89800-12	
TC9600 (thermocouple, thermistor, RTD)	120 VAC	15 A max	120 VAC	KB-89800-13	
	240 VAC	10 A max	240 VAC	KB-89800-14	

‡For 230 VAC models, the power and heater/cooler output uses IEC plugs. You may need to order an adapter sold separately per your local requirements.

KB-17101-63 **NIST-traceable calibration** with data

Specifications

Input type	Range	Accuracy‡
J	–190 to 1000°C (–310 to 1832°F)	±0.1% of span or ±1°C
K	–200 to 1372°C (–328 to 2502°F)	
T	–200 to 400°C (–328 to 752°F)	
E	–200 to 1000°C (–328 to 1832°F)	
N	–200 to 1300°C (–328 to 2372°F)	
B	200 to 1800°C (392 to 3272°F)	±0.2% of span or ±2°C
R	0 to 1768°C (32 to 3214°F)	
S	0 to 1768°C (32 to 3214°F)	
Thermistor†	400 series: –30 to 100°C (–22 to 212°F) 700 series: –15 to 100°C (5 to 212°F)	±0.4% of span or ±0.5°C
100 Ω Pt RTD†	–200 to 800°C (–328 to 1472°F)	±0.1% of span

†For TC9600 model only. ‡Accuracy span is 540°C (1000°F) minimum for thermocouples and RTD; 130°C (266°F) minimum for thermistors.

Resolution: 0.1°; 1° above 999.9° and below –99.9°

Alarm output (TC9600 only): SPT relay rated for 24 VAC, 1 A max

Digi-Sense™ Traceable® General-Purpose Timers

Track time, maintain accuracy, and save money

A

B

C

D

E

DIGI-SENSE™

What's included: batteries and NIST-traceable calibration certificate.

Key	A	B	C	D	E
Description	Four-channel large-display clock/timer	Jumbo-digit dual-channel clock/timer	Flashing LED big-digit timer	Triple-display clock/timer	Dual-channel flashing LED big-digit timer
Number of channels	Four	Two	One	Three	Two
Timing capacity	100 hours	24 hours	100 min	24 hr up/20 hr down	100 hours
Resolution	1 sec	1 sec	1 sec	1 sec	1 sec
Accuracy	±0.01%	±0.01%	±0.01%	±0.01%	±0.01%
Count direction	Up/down	Up/down	Down	Up/down	Up/down
Display	LCD, ¾"H	Dual LCD, 1"H	LCD, 1"H	Triple LCD, 7⁄16"H	LCD, ⅝"H
Clock	Yes	Yes	No	Yes	No
Alarm	1 min beep	1 min beep	1 min beep and visual	1 min beep	1 min beep and visual
Battery included	One 1.5 V button cell	One AAA battery	Two AAA battery	One AAA battery	Two AAA battery
Catalog number (timer)	KB-08649-10	KB-94440-10	KB-94461-15	KB-94440-00	KB-94461-16
Price/ea*					
Catalog number (battery)	KB-09377-16	KB-09376-00	KB-09376-00	KB-09376-00	KB-09376-00
Price/pk	**/pk of 6**	**/pk of 12**	**/pk of 12**	**/pk of 12**	**/pk of 12**

***Discounts:** Save 10% on 10–24 timers and 20% on 25+ timers.

Digi-Sense™ Traceable® Digital Stopwatches

Time the length of any event or activity

DIGI-SENSE™

A

B

C

D

What's included: neck cord, battery, and NIST-traceable calibration certificate.

Key	A		B	C	D
Descripton	Water-resistant stopwatches		Waterproof/shockproof stopwatch	Big-digit stopwatch	Stopwatch/repeat timer
Timing modes	Single-event, lap, cumulative split		Single-event, lap, cumulative split	Single-event, pause, cumulative split	Single-event, lap, cumulative split, pacer
Timing capacity	24 hours		24 hours	24 hours	10 hours
Resolution	0.01/1 sec†		0.01/1 sec†	0.01/1 sec†	0.01 sec
Accuracy	±5 sec/day		±0.01	±0.001%	±0.001%
Count direction	Up		Up	Up	Up/down
Display	LCD, ⅜"H		LCD, ½"H	LCD, ⅝"H	2-line LCD, ⅝"H
Clock alarm	1 min beep		1 min beep	1 min beep	1 min beep
Battery included	1.5 V button cell		1.5 V button cell	1.5 V button cell	1.5 V button cell
Catalog number	KB-35002-11‡	KB-35002-13	KB-94460-55	KB-94460-28	KB-94460-10
Price					

†Resolution is 0.01 second for the first 30 minutes of timing and 1 second thereafter. ‡Model 35002-11 does not include a Traceable® NIST-traceable calibration certificate.

General-Purpose Tweezers and Forceps,

Stainless Steel (SS) and Plastic

Get a more precise grip

Buy More...Save More!
20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

SS Tweezers,
straight tips and finger serrations.

Length	Catalog number	Qty/ pk	Price/pk
7"	KB-07288-04	12	

SS Straight: Thick, Flat Strong Tips,
serrated tips and grips. Style OOD.

Length	Catalog number	Qty/ pk	Price/pk
4¾"	KB-07287-03	1	

SS Self-Locking Tweezers,
straight narrow tips.

Length	Catalog number	Qty/ pk	Price/pk
4¼"	KB-07288-01	12	

SS Tweezers,
smooth spade tips.

Length	Catalog number	Qty/ pk	Price/pk
4¼"	KB-07288-07	12	

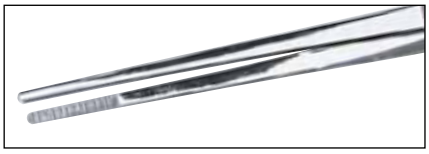
SS Solder Utility Tweezers,
curved tips and finger serrations.

Length	Catalog number	Qty/ pk	Price/pk
7"	KB-07288-03	12	

SS Tweezers,
curved serrated tips.

Length	Catalog number	Qty/ pk	Price/pk
4¼"	KB-07288-05	12	

SS Forceps,
straight serrated tips.



Length	Catalog number	Qty/ pk	Price/pk
6"	KB-07288-12	1	
12"	KB-07288-14	1	

SS Forceps,
plastic-coated rounded tips.

Length	Catalog number	Qty/ pk	Price/pk
12"	KB-07288-10	1	

PTFE-Covered Nickel-Plated Forged Steel Forceps are heat and chemical resistant. **Autoclavable.**

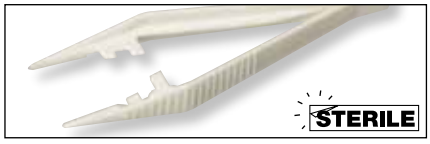
Length	Catalog number	Qty/ pk	Price/pk*
4¼"	KB-06440-00	2	

*Quantity discount does not apply.

Reinforced Nylon Forceps have corrugated handles, serrated blades, and rounded tips. **Autoclavable.** Sterile—individually wrapped.

Sterile	Length	Catalog number	Qty/ pk	Price/pk
No	4⅞"	KB-06443-15	100	
Yes	4⅞"	KB-06443-26	100	

Nylon Forceps feature corrugated handles and serrated blades. **Autoclavable.** Sterile—individually wrapped.

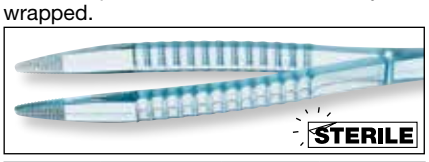


Sterile	Length	Catalog number	Qty/ pk	Price/pk
No	4¼"	KB-06443-25	100	
Yes	4¼"	KB-06443-27	70	

PA (Polyamide) Tweezers,
rounded tips.

Length	Catalog number	Qty/ pk	Price/pk
7"	KB-06446-20	1	

Polystyrene Disposable Sterile Forceps feature corrugated handles and rounded serrated tips. Sterile—come individually wrapped.



Length	Catalog number	Qty/ pk	Price/pk*
4⅞"	KB-06443-20	100	

*Quantity discount does not apply.

Plastic Curved: Smooth Rounded Tips 2AB

Length	Catalog number	Qty/ pk	Price/pk
4½"	KB-07290-06	12	

Plastic Curved: Very Fine and Smooth Tips 7-STD

Length	Catalog number	Qty/ pk	Price/pk
4½"	KB-07290-08	12	

Chemical-Resistant Trays and Pans

Resist mild acids, alkalies, and reagents

- Withstand temperatures from –40 to 250°F (–40 to 121°C)
- Contain spills with straight-edge pans

⚠ **WARNING:** This product can expose you to chemicals including styrene, which is known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

Outside dimensions (L x W x H)	Cat. no.	Qty/pk	Price/pk
Chemical-resistant trays			
13¼" x 10⅝" x 1" (33.7 x 26.9 x 2.5 cm)	KB-06715-80	1	
18" x 14" x 1" (45.7 x 35.6 x 2.5 cm)	KB-06715-82	1	
20⅜" x 15⅛" x 1" (52 x 38.3 x 2.5 cm)	KB-06715-84	1	
Chemical-resistant pans			
25¼" x 19¼" x 1⅛" (64.1 x 48.9 x 2.7 cm)	KB-06715-86	1	
19½" x 19½" x 1¼" (49.5 x 49.5 x 3.2 cm)	KB-06715-88	1	
31" x 25" x 2¾" (78.7 x 63.5 x 7 cm)	KB-06715-90	1	

Cole-Parmer® Utility Trays, PP

Won't split at seams

- Heavy-duty welded polypropylene construction
- Thick 3/16" (0.5 cm) thickness for durability
- Autoclavable

Cole-Parmer®

Capacity L (qt)	Inside dimensions (L x W x H)	Catalog number	Price/ea
7 (7)	15" x 10" x 3" (38.1 x 25.4 x 7.6 cm)	KB-06710-70	
14 (14)	20" x 15" x 3" (50.8 x 38.1 x 7.6 cm)	KB-06710-74	
21 (21)	18" x 18" x 4" (45.7 x 45.7 x 10.2 cm)	KB-06710-75	
25 (25)	16" x 12" x 8" (40.6 x 30.5 x 20.3 cm)	KB-06710-72	
37 (37)	26" x 22" x 4" (66.0 x 55.9 x 10.2 cm)	KB-06710-78	
39 (39)	20" x 20" x 6" (50.8 x 50.8 x 15.2 cm)	KB-06710-76	

Thermo Scientific™ Nalgene™ Trays, PP

Get a grip with molded-in handles

- Easy nesting, tapered design
- Autoclavable

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20% off on 120+ **15%** off on 30 to 119 **10%** off on 6 to 29 packs or cases

Capacity L (qt)	Outside dimensions (L x W x H)	Catalog number	Qty/pk	Price/pk
10 (10)	14¼" x 12¼" x 5⅝" (36.2 x 31.1 x 14.3 cm)	KB-06018-10	1	
15 (15)	21⅜" x 17⅛" x 5⅛" (54.3 x 43.5 x 13 cm)	KB-06018-20		

CoorsTek® Rectangular Trays, High-Alumina

Eliminate contamination

- Highly resistant to chemicals
- Use for high-temperature and high-purity applications
- Autoclavable

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15% off on 10+ packs or cases **10%** off on 5 to 9 packs or cases

Capacity (mL)	Dimensions (L x W x H)	Catalog number	Qty/cs	Price/cs
5	1½" x 1¼" x ¼" (3.8 x 3.2 x 0.6 cm)	KB-17826-00	1	
13	2⅜" x 1½" x ¼" (6 x 3.8 x 0.6 cm)	KB-17826-02		
32	3" x 2" x ½" (7.5 x 5 x 1.2 cm)	KB-17826-04		
64	4" x 1¾" x ¾" (10.2 x 4.5 x 1.9 cm)	KB-17826-06	1	
130	6" x 2½" x ¾" (15.2 x 6.5 x 1.9 cm)	KB-17826-08		
340	7⅞" x 3½" x 1" (20 x 9 x 2.5 cm)	KB-17826-10		
750	7⅝" x 5½" x 1¾" (19.4 x 14 x 4.4 cm)	KB-17826-12		

Utility Trays, HDPE

Can take the heat

- Withstand continuous temperatures from 0 to 160°F (–17 to 71°C)
- Durable, 3/16" thick walls
- NSF certified; meet FDA and USDA requirements

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20% off on 120+
15% off on 30 to 119
10% off on 6 to 29 packs or cases

NSF®

Capacity L (qt)	Outside dimensions (L x W x H)	Catalog number	Qty/pk	Price/pk
7 (7)	17¾" x 14" x 4" (45.1 x 35.6 x 10.2 cm)	KB-06710-10†	1	
15 (15)	17½" x 15½" x 4" (44.5 x 39.4 x 10.2 cm)	KB-06710-20		
19 (19)	17½" x 15½" x 5" (44.5 x 39.4 x 12.7 cm)	KB-06710-30		
20 (20)	23" x 19" x 4" (58.4 x 48.3 x 10.2 cm)	KB-06710-40	1	
32 (32)	29¼" x 23¼" x 4" (74.3 x 59.1 x 10.2 cm)	KB-06710-50‡		

†Model 06710-10 has rolled lip all around, single-molded construction.
‡Model 06710-50 is made of LLDPE.

Wait!
There's More at ColeParmer.com
Find all the **product specs** you need!

Cole-Parmer® Peroxide-Cured Silicone Tubing

No need to worry about the heat—use for applications up to 460°F

Applications: Pharmaceutical, biotechnology, food and beverage, aerospace, and general lab applications.

Characteristics: Peroxide-cured, excellent heat resistance, low compression set, odorless, nontoxic, translucent.

Certifications: Elastomer is FDA-compliant (21 CFR 177.2600) and meets USP Class VI requirements. Tubing is manufactured according to GMP.

Temperature range: –60 to 460°F (–51 to 238°C)

Sterilize: Autoclave or gamma irradiation.

Cole-Parmer®

Buy More...Save More!
20% off on 20+
15% off on 10 to 19
10% off on 4 to 9 packs

Dimensions: in. (mm)			Max psi at 70°F (21°C)	Catalog number	Price/ 25-ft pk
ID	OD	Wall			
1/50 (0.5)	1/12 (2.1)	1/32 (0.8)	30	KB-06411-59	
1/32 (0.8)	3/32 (2.4)	1/32 (0.8)	30	KB-06411-60	
1/16 (1.6)	1/8 (3.2)	1/32 (0.8)	15	KB-06411-62	
3/32 (2.4)	5/32 (4.0)	1/32 (0.8)	15	KB-06411-63	
1/8 (3.2)	3/16 (4.8)	1/32 (0.8)	10	KB-06411-64	
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	20	KB-06411-67	
1/8 (3.2)	3/8 (9.6)	1/8 (3.2)	25	KB-06411-68	
5/32 (4.0)	5/32 (4.0)	1/32 (0.8)	10	KB-06411-65	
3/16 (4.8)	1/4 (6.4)	1/32 (0.8)	9	KB-06411-66	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	13	KB-06411-03	
3/16 (4.8)	7/16 (11.2)	1/8 (3.2)	22	KB-06411-69	
1/4 (6.4)	5/16 (8.0)	1/32 (0.8)	9	KB-06411-70	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	10	KB-06411-71	
1/4 (6.4)	7/16 (11.2)	3/32 (2.4)	17	KB-06411-72	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	17	KB-06411-74	
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	10	KB-06411-75	
5/16 (8.0)	1/2 (12.8)	3/32 (2.4)	16	KB-06411-76	
5/16 (8.0)	9/16 (14.4)	1/8 (3.2)	20	KB-06411-77	
3/8 (9.6)	1/2 (12.8)	1/16 (1.6)	10	KB-06411-12	
3/8 (9.6)	9/16 (14.4)	3/32 (2.4)	12	KB-06411-78	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	15	KB-06411-79	
1/2 (12.8)	5/8 (16.0)	1/16 (1.6)	9	KB-06411-80	
1/2 (12.8)	11/16 (17.6)	3/32 (2.4)	10	KB-06411-19	
1/2 (12.8)	3/4 (19.2)	1/8 (3.2)	12	KB-06411-55	
5/8 (16.0)	13/16 (20.8)	3/32 (2.4)	10	KB-06411-82	
5/8 (16.0)	7/8 (22.4)	1/8 (3.2)	12	KB-06411-58	
3/4 (19.2)	1 (25.4)	1/8 (3.2)	9	KB-06411-83	

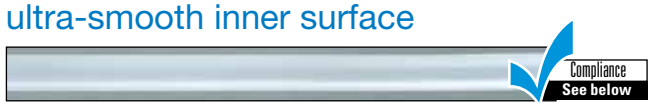
Benchtop Tubing Cutter

Steel blade makes right-angle cuts in plastic tubing 1/16" to 5/8" OD.

Description	Catalog number	Price
Benchtop cutter	KB-06438-10	
Replacement blade	KB-06438-11	

Tygon® BioPharm Silicone Tubing

Reduce particle entrapment with ultra-smooth inner surface



Formulation: Tygon® 3350 silicone, platinum cured.

Applications: Pharmaceutical, cosmetic, industrial, and auto-analysis applications.

Characteristics: Ultra-smooth inner surface reduces particle entrapment and minimizes bacterial growth. Good for mild to medium concentration bases, salts, and alcohols; is odorless, tasteless, and nontoxic. Transparent.

Certifications: Elastomer is FDA-compliant (21 CFR 177.2600) and meets USP Class VI requirements, NSF criteria and EP 3.2.9 requirements. Tubing is manufactured according to GMP.

Temperature range: –112 to 392°F (–80 to 200°C)

Sterilize: Ethylene oxide, gamma irradiation, or autoclave for 30 min, 15 psi (1.0 bar).

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20% off on 20+
15% off on 10 to 19
10% off on 4 to 9 packs

Dimensions: in. (mm)			Max psi at 73°F (bar at 23°C)	Catalog number	Price/ 50-ft pk
ID	OD	Wall			
1/32 (0.8)	3/32 (2.4)	1/32 (0.8)	16 (1.1)	KB-95702-00	
1/16 (1.6)	1/8 (3.2)	1/32 (0.8)	10 (0.7)	KB-95702-01	
1/16 (1.6)	3/16 (4.8)	1/16 (1.6)	15 (1.0)	KB-95702-02	
3/32 (2.4)	5/32 (4.0)	1/32 (0.8)	7 (0.5)	KB-95702-03	
3/32 (2.4)	7/32 (5.6)	1/16 (1.6)	12 (0.8)	KB-95702-04	
1/8 (3.2)	3/16 (4.8)	1/32 (0.8)	7 (0.5)	KB-95702-05	
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	9 (0.6)	KB-95702-06	
3/16 (4.8)	1/4 (6.4)	1/32 (0.8)	5 (0.3)	KB-95702-08	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	7 (0.5)	KB-95702-09	
3/16 (4.8)	3/8 (9.6)	3/32 (2.4)	9 (0.6)	KB-95702-10	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	5 (0.3)	KB-95702-13	
1/4 (6.4)	7/16 (11.2)	3/32 (2.4)	7 (0.5)	KB-95702-14	
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	5 (0.3)	KB-95702-16	
5/16 (8.0)	1/2 (12.8)	3/32 (2.4)	6 (0.4)	KB-95702-17	
3/8 (9.6)	1/2 (12.8)	1/16 (1.6)	4 (0.3)	KB-95702-18	
3/8 (9.6)	9/16 (14.4)	3/32 (2.4)	5 (0.3)	KB-95702-19	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	7 (0.5)	KB-95702-20	

DON'T RISK IT!

Our chemical compatibility database provides important information on chemical resistance—check it out at ColeParmer.com/ChemChart

Free Certificate of Compliance

Cole-Parmer will provide a certificate of resin or elastomer compliance FREE at your request with each order of fittings or tubing. Certificates list your company's PO number, order reference number, catalog number, formulation, compound number, lot number (where applicable), and the regulations and agencies the tubing or fitting complies with, including FDA, USP, USDA, National Formulary, NSF International, GMP, and 3A. Look for the blue "check" icon throughout this catalog to identify when a certificate of compliance is available.

FREE certificate of compliance for noted tubing

Dow Corning® Pharma-50 Tubing

No organic additives and low extractables

Compliance
See page 90

Applications: Pharmaceutical, biotechnology, and ultrapure fluid processing.

Characteristics: 50 durometer, translucent platinum-cured silicone tubing with a very low extractable profile. Pharma tubing remains flexible and resilient for long service life. Dow Corning maintains complete traceability from silica to silicone tubing.

Certifications: Elastomer exceeds test guidelines for USP Class VI Plastics and the tubing itself meets or exceeds FDA (21 CFR 177.2600), 3A Sanitary Standards and European Pharmacopoeia (EP) requirements. Produced under Bulk Pharmaceutical (BP) and current GMP principles.

Temperature range: –60 to 460°F (–51 to 232°C)

Sterilize: Autoclave, ethylene oxide, or gamma irradiation.

Buy More...Save More!
20% off on 20+
15% off on 10 to 19
10% off on 4 to 9 packs

Dimensions: in. (mm)			Max psi at 70°F (bar at 21°C)	Catalog number	Price/ 50-ft pk
ID	OD	Wall			
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	21 (1.4)	KB-96105-00	
3/16 (4.8)	3/8 (9.6)	3/32 (2.4)	16 (1.1)	KB-96105-02	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	12 (0.8)	KB-96105-03	
1/4 (6.4)	7/16 (11.1)	3/32 (2.4)	17 (1.2)	KB-96105-04	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	17 (1.2)	KB-96105-05	
5/16 (8.0)	1/2 (14.0)	1/8 (3.0)	16 (1.1)	KB-96105-06	
3/8 (9.6)	9/16 (14.3)	3/32 (2.4)	13 (0.9)	KB-96105-08	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	14 (1.0)	KB-96105-09	
1/2 (12.8)	3/4 (19.1)	1/8 (3.2)	10 (0.7)	KB-96105-11	
5/8 (16.0)	7/8 (22.2)	1/8 (3.2)	9 (0.6)	KB-96105-12	

Silastic® Laboratory Tubing

Resists bacteria and fungus growth

Compliance
See page 90

Applications: Pharmaceutical, biotech, filtration, and environmental analysis.

Characteristics: Platinum-cured silicone, nonpyrogenic, bacteria and fungus-resistant, extremely low extractables, and does not impart a taste or odor.

Certifications: Exceeds USP Class VI Plastics Test requirements, elastomer and tubing are manufactured under Bulk Pharmaceutical cGMPs in an FDA-registered, ISO-9002-certified facility.

Temperature range: –65 to 480°F (–54 to 249°C)

Sterilize: Autoclave or radiation.

Buy More...Save More!
20% off on 20+
15% off on 10 to 19
10% off on 4 to 9 packs

Dimensions: in. (mm)			Catalog number	Price/ 50-ft pk
ID	OD	Wall		
0.012 (0.3)	0.025 (0.6)	0.0065 (0.2)	KB-96115-00	
0.02 (0.5)	0.037 (0.9)	0.0085 (0.22)	KB-96115-02	
0.025 (0.6)	0.047 (1.2)	0.011 (0.3)	KB-96115-04	
0.03 (0.8)	0.065 (1.7)	0.0175 (0.4)	KB-96115-06	
0.04 (1)	0.085 (2.2)	0.0225 (0.6)	KB-96115-08	
0.058 (1.5)	0.077 (2.0)	0.0095 (0.2)	KB-96115-10	
0.062 (1.6)	0.095 (2.4)	0.0165 (0.4)	KB-96115-12	
0.062 (1.6)	0.125 (3.2)	0.0315 (0.8)	KB-96115-14	
0.078 (2)	0.125 (3.2)	0.0235 (0.6)	KB-96115-16	
0.104 (2.6)	0.192 (4.9)	0.044 (1.1)	KB-96115-18	
0.132 (3.4)	0.183 (4.6)	0.0255 (0.6)	KB-96115-20	
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	KB-96115-22	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	KB-96115-24	
3/16 (4.8)	3/8 (9.5)	3/32 (2.4)	KB-96115-26	
1/4 (6.4)	3/8 (9.5)	1/16 (1.6)	KB-96115-28	
1/4 (6.4)	7/16 (11.2)	3/32 (2.4)	KB-96115-30	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	KB-96115-32	
5/16 (8.0)	1/2 (12.8)	3/32 (2.4)	KB-96115-34	
3/8 (9.5)	5/8 (15.9)	1/8 (3.2)	KB-96115-40	
1/2 (12.8)	3/4 (19.1)	1/8 (3.2)	KB-96115-44	

Cole-Parmer® Vinyl Tubing

Ideal for general-purpose applications

Compliance
See page 90

Applications: General-purpose lab use.

Characteristics: Fair chemical and abrasion resistance, odorless, nontoxic and transparent.

Certifications: Tubing is manufactured according to GMP.

Temperature range: –45 to 180°F (–43 to 82°C)

Sterilize: Ethylene oxide.

Cole-Parmer®

Buy More...Save More!
20% off on 20+ **15%** off on 10 to 19 **10%** off on 4 to 9 packs

Dimensions: in. (mm)			Max psi at 70°F (bar at 21°C)	Catalog number	Ft/pk	Price/pk
ID	OD	Wall				
1/16 (1.6)	1/8 (3.2)	1/32 (0.8)	40 (2.8)	KB-06405-01	50	
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	59 (4.0)	KB-06405-02	50	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	51 (3.5)	KB-06405-03	50	
3/16 (4.8)	7/16 (11.2)	1/8 (3.2)	46 (3.2)	KB-06405-04	100	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	51 (3.5)	KB-06405-06	50	
1/4 (6.4)	7/16 (11.2)	3/32 (2.4)	55 (3.8)	KB-06405-07	100	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	64 (4.4)	KB-06405-08	50	
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	46 (3.2)	KB-06405-09	50	
5/16 (8.0)	1/2 (12.8)	3/32 (2.4)	55 (3.8)	KB-06405-10	100	
3/8 (9.6)	1/2 (12.8)	1/16 (1.6)	41 (2.8)	KB-06405-12	50	
3/8 (9.6)	9/16 (14.4)	3/32 (2.4)	46 (3.2)	KB-06405-15	100	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	55 (3.8)	KB-06405-16	100	
1/2 (12.8)	5/8 (16.0)	1/16 (1.6)	28 (1.9)	KB-06405-18	50	
1/2 (12.8)	11/16 (17.6)	3/32 (2.4)	36 (2.5)	KB-06405-19	100	
1/2 (12.8)	3/4 (19.1)	1/8 (3.2)	41 (2.8)	KB-06405-20	50	
5/8 (16.0)	13/16 (20.8)	3/32 (2.4)	32 (2.2)	KB-06405-25	100	
5/8 (16.0)	7/8 (22.4)	1/8 (3.2)	36 (2.5)	KB-06405-27	50	
3/4 (19.1)	1 (25.4)	1/8 (3.2)	32 (2.2)	KB-06405-31	50	
1 (25.4)	1 1/4 (31.8)	1/8 (3.2)	23 (1.6)	KB-06405-36	50	
1 1/4 (31.8)	1 3/4 (44.5)	1/4 (6.4)	41 (2.8)	KB-06405-46	50	

Cole-Parmer® Platinum-Cured Reinforced Silicone Tubing

Withstands pressures to 312 psi

Compliance
See page 90

Formulation: Tygon® 3370 I. B., silicone, platinum cured.

Applications: Demanding sanitary high-pressure pharmaceutical, biotechnology, food and beverage, and cosmetic applications.

Characteristics: Excellent heat resistance, low compression set, odorless, and nontoxic, translucent.

Certifications: Elastomer is FDA-compliant (21 CFR 177.2600) and USP Class V extractables; exceeds Class VI implant; exceeds 3A Sanitary Standards; produced to Bulk Pharmaceutical cGMPs (FDA 21 CFR 210, 211). Tubing is manufactured according to GMP.

Temperature range: –60 to 320°F (–51 to 160°C)

Sterilize: Autoclave, ethylene oxide, or gamma irradiation.

Cole-Parmer®

Buy More...Save More!
20% off on 20+ **15%** off on 10 to 19 **10%** off on 4 to 9 packs

Dimensions: in. (mm)			Max psi at 70°F (bar at 21°C)	Catalog number	Qty/pk	Price/pk
ID	OD	Wall				
3/16 (4.8)	7/16 (11.2)	1/8 (3.2)	312 (21.5)	KB-95703-00	50 ft	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	248 (17.1)	KB-95703-01	50 ft	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	180 (12.4)	KB-95703-02	50 ft	
1/2 (12.8)	13/16 (20.8)	5/32 (4.0)	168 (11.6)	KB-95703-03	50 ft	
5/8 (16.0)	15/16 (24.0)	5/32 (4.0)	144 (9.9)	KB-95703-04	50 ft	
3/4 (19.1)	1 1/8 (28.6)	3/16 (4.8)	144 (9.9)	KB-95703-05	50 ft	
1 1/4 (31.8)	1 5/8 (41.4)	3/16 (4.8)	96 (6.6)	KB-95703-07	25 ft	

Cole-Parmer® Flexible PVC Tubing

Stop oxidation and bacteria problems

Applications: Food and beverage processing, pharmaceutical, biotech, and general lab applications.

Characteristics: Extremely flexible. Resistant to oxidation, chemicals and bacteria. Transparent.

Certifications: FDA-compliant (21 CFR 175.300) and meets USP Class VI and USDA requirements; meets 3A sanitary standards.

Temperature range: –41 to 165°F (–41 to 74°C)

Sterilize: Ethylene oxide or gamma irradiation.

Cole-Parmer®

WARNING: This product can expose you to chemicals including DEHP, which is known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov

Buy More...Save More!
20% off on 20+ **15%** off on 10 to 19 **10%** off on 4 to 9 packs

Dimensions: in. (mm)			Max psi at 68°F (bar at 20°C)	Catalog number	Price/ 50-ft pk
ID	OD	Wall			
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	68 (4.7)	KB-96605-01	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	55 (3.8)	KB-96605-02	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	55 (3.8)	KB-96605-03	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	70 (4.8)	KB-96605-05	
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	50 (3.4)	KB-96605-06	
3/8 (9.6)	1/2 (12.8)	1/16 (1.6)	40 (2.8)	KB-96605-08	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	65 (4.5)	KB-96605-10	
1/2 (12.8)	5/8 (16.0)	1/16 (1.6)	30 (2.1)	KB-96605-11	
1/2 (12.8)	3/4 (19.1)	1/8 (3.2)	45 (3.1)	KB-96605-13	
5/8 (16.0)	7/8 (22.4)	1/8 (3.2)	40 (2.8)	KB-96605-15	
3/4 (19.1)	1 (25.4)	1/8 (3.2)	35 (2.4)	KB-96605-16	
1 (25.4)	1 1/4 (31.8)	1/8 (3.2)	28 (1.9)	KB-96605-19	
1 1/4 (31.8)	1 3/4 (44.5)	1/4 (6.4)	45 (3.1)	KB-96605-25	

Ratchet Tubing Clamps

Durable Celcon® plastic tubing clamps are autoclavable; won't rust, corrode, or distort. Twelve-position ratchet control adjusts from full flow to complete closure. Mini-clamp is suitable for up to 1/8" (2.1 mm) OD tubing. Standard clamp accepts flexible tubing to 1/2" (12.7 mm) OD.

KB-06833-01 **Mini tubing clamp.** Pack of 25

KB-06833-00 **Tubing clamp.** Pack of 25

Cole-Parmer® FEP Tubing

Does not deteriorate with age

Compliance
See page 90

Applications: Demanding lab, chemical, electrical, mechanical, pharmaceutical, and automotive applications. Excellent for the transfer of extreme temperature or highly corrosive materials. Also good for high-purity work.

Characteristics: Chemically inert, nontoxic, heat resistant, with a low coefficient of friction. Doesn't deteriorate with age. Tough, but bends even at –454°F (–270°C). Translucent.

Certifications: Resin is FDA-compliant (21 CFR 177.1550). Tubing is manufactured in ISO 9001-2008 approved facility.

Temperature range: –454 to 400°F (–270 to 205°C)

Sterilize: Autoclave, ethylene oxide, or dry heat.

Cole-Parmer®

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20% off on 20+ **15%** off on 10 to 19 **10%** off on 4 to 9 packs

Dimensions: in. (mm)			Max psi at 70°F (bar at 21°C)	Catalog number	Price/ 25-ft pk
ID	OD	Wall			
1/32 (0.8)	1/16 (1.6)	1/64 (0.4)	500 (34.5)	KB-06406-60	
1/16 (1.6)	1/8 (3.2)	1/32 (0.8)	444 (30.6)	KB-06406-62	
3/32 (2.4)	5/32 (4.0)	1/32 (0.8)	353 (24.3)	KB-06406-63	
1/8 (3.2)	3/16 (4.8)	1/32 (0.8)	289 (19.9)	KB-06406-64	
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	450 (31.0)	KB-06450-05	
5/32 (4.0)	1/4 (6.4)	3/64 (1.2)	329 (22.7)	KB-06450-04	
3/16 (4.8)	1/4 (6.4)	1/32 (0.8)	209 (14.4)	KB-06406-66	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	353 (24.3)	KB-06450-06	
1/4 (6.4)	5/16 (8.0)	1/32 (0.8)	150 (10.3)	KB-06406-72	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	288 (19.9)	KB-06450-07	
19/64 (7.5)	3/8 (9.6)	5/128 (1.0)	172 (11.9)	KB-06450-02	
5/16 (8.0)	3/8 (9.6)	1/32 (0.8)	140 (9.7)	KB-06406-74	
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	243 (16.8)	KB-06450-08	
3/8 (9.6)	7/16 (11.2)	1/32 (0.8)	110 (7.6)	KB-06406-12	
3/8 (9.6)	1/2 (12.8)	1/16 (1.6)	210 (14.5)	KB-06450-09	
7/16 (11.1)	1/2 (12.8)	1/32 (0.8)	102 (7.0)	KB-06406-76	
7/16 (11.1)	9/16 (14.3)	1/16 (1.6)	185 (12.8)	KB-06450-14	
1/2 (12.8)	9/16 (14.3)	1/32 (0.8)	88 (6.1)	KB-06406-18	
1/2 (12.8)	5/8 (16.0)	1/16 (1.6)	165 (11.4)	KB-06450-15	
5/8 (16.0)	11/16 (17.5)	1/32 (0.8)	71 (4.9)	KB-06450-00	
5/8 (16.0)	3/4 (19.2)	1/16 (1.6)	135 (9.3)	KB-06450-17	
11/16 (17.5)	3/4 (19.1)	1/32 (0.8)	65 (4.5)	KB-06450-01	
3/4 (19.2)	7/8 (22.2)	1/16 (1.6)	115 (7.9)	KB-06450-19	

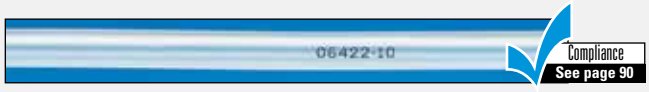
C-Flex® Tubing

Meets the demands of various industries

– Available in three formulations—standard, clear, and animal-derived component-free (ADCF)

Applications: General-purpose lab uses requiring high performance and long life.

Characteristics: Exceptional tensile and tear strength, good biocompatibility, excellent chemical resistance, low gas permeability, and a smooth surface. Standard C-Flex is opaque white; C-Flex Clear and C-Flex ADCF are clear.



Compliance
See page 90

Certifications: Meets USP Class VI. Tubing is manufactured according to GMP.

Temperature range: –50 to 275°F (–45 to 135°C)

Sterilize: Autoclave, ethylene oxide, or gamma irradiation.

Buy More...Save More!
20% off on 20+ **15%** off on 10 to 19 **10%** off on 4 to 9 packs

Dimensions in. (mm)			C-Flex			C-Flex Clear			C-Flex ADCF		
ID	OD	Wall	Catalog number	Max psi at 70°F (21°C)	Price/ 25-ft pk	Catalog number	Max psi at 70°F (21°C)	Price/ 25-ft pk	Catalog number	Max psi at 70°F (21°C)	Price/ 50-ft pk
1/50 (0.5)	1/12 (2.1)	1/32 (0.8)	KB-06424-59	30		KB-06422-00	50		—	—	—
1/32 (0.8)	3/32 (2.4)	1/32 (0.8)	KB-06424-60	31		KB-06422-01	51		—	—	—
1/16 (1.6)	1/8 (3.2)	1/32 (0.8)	KB-06424-62	15		KB-06422-02	25		—	—	—
3/32 (2.4)	5/32 (4.0)	1/32 (0.8)	KB-06424-63	14		KB-06422-03	23		—	—	—
1/8 (3.2)	3/16 (4.8)	1/32 (0.8)	KB-06424-64	10		KB-06422-04	17		—	—	—
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	KB-06424-67	21		KB-06422-05	35		KB-06432-50	35	
5/32 (4.0)	7/32 (5.6)	1/32 (0.8)	KB-06424-65	10		KB-06422-06	17		—	—	—
3/16 (4.8)	1/4 (6.4)	1/32 (0.8)	KB-06424-66	9		KB-06422-07	15		—	—	—
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	KB-06424-03	13		KB-06422-08	22		KB-06432-51	22	
3/16 (4.8)	7/16 (11.2)	1/8 (3.2)	KB-06424-69	22		KB-06422-09	36		—	—	—
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	KB-06424-71	12		KB-06422-10	20		KB-06432-53	20	
1/4 (6.4)	7/16 (11.2)	3/32 (2.4)	KB-06424-72	17		KB-06422-11	28		KB-06432-54	28	
1/4 (6.4)	1/2 (12.7)	1/8 (3.2)	KB-06424-74	17		KB-06422-12	28		KB-06432-55	28	
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	KB-06424-75	10		KB-06422-13	17		—	—	—
5/16 (8.0)	1/2 (12.7)	3/32 (2.4)	KB-06424-76	16		KB-06422-14	27		KB-06432-56	27	
3/8 (9.6)	1/2 (12.7)	1/16 (1.6)	KB-06424-12	10		KB-06422-15	17		KB-06432-57	17	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	KB-06424-79	14		KB-06422-16	23		KB-06432-59	23	
1/2 (12.7)	11/16 (17.6)	3/32 (2.4)	KB-06424-19	10		KB-06422-17	17		KB-06432-60	17	
1/2 (12.7)	3/4 (19.1)	1/8 (3.2)	KB-06424-81	10		KB-06422-18	17		KB-06432-61	17	

Tygon® Non-DEHP Lab Tubing

Pliable formulation for sharp radius bending

Compliance See page 90

Formulation: Tygon E-3603

Applications: General lab, food & beverage, biopharm, analytical instruments.

Characteristics: Non-DEHP, phthalate free. Long-life, chemical resistant, nonoxidizing; able to bend to sharp radius curves and easily works with fittings. Transparent.

Certifications: FDA-compliant (21 CFR 175.300); meets USP Class VI and NSF 51 requirements.

Temperature range: –51 to 165°F (–46 to 74°C)

Sterilize: Autoclave or ethylene oxide.

Buy More...Save More!
20% off on 20+
15% off on 10 to 19
10% off on 4 to 9 packs

Dimensions: in. (mm)			Max psi at 70°F (bar at 21°C)	Catalog number	Price/ 50- ft pk
ID	OD	Wall			
1/32 (0.8)	3/32 (2.4)	1/32 (0.8)	69 (4.8)	KB-06407-70	
1/16 (1.6)	1/8 (3.2)	1/32 (0.8)	36 (2.5)	KB-06407-71	
1/16 (1.6)	3/16 (4.8)	1/16 (1.6)	69 (4.8)	KB-06407-72	
3/32 (2.4)	5/32 (4.0)	1/32 (0.8)	25 (1.7)	KB-06407-73	
1/8 (3.2)	3/16 (4.8)	1/32 (0.8)	20 (1.4)	KB-06407-75	
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	36 (2.5)	KB-06407-76	
5/32 (4.0)	7/32 (5.6)	1/32 (0.8)	17 (1.2)	KB-06407-77	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	25 (1.7)	KB-06407-78	
3/16 (4.8)	3/8 (9.6)	3/32 (2.4)	36 (2.5)	KB-06407-79	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	20 (1.4)	KB-06407-80	
1/4 (6.4)	7/16 (11.2)	3/32 (2.4)	28 (1.9)	KB-06407-81	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	35 (2.5)	KB-06407-82	
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	17 (1.2)	KB-06407-83	
5/16 (8.0)	1/2 (12.8)	3/32 (2.4)	23 (1.6)	KB-06407-84	
5/16 (8.0)	9/16 (14.4)	1/8 (3.2)	30 (2.1)	KB-06407-85	
3/8 (9.6)	1/2 (12.8)	1/16 (1.6)	14 (1.0)	KB-06407-86	
3/8 (9.6)	9/16 (14.4)	3/32 (2.4)	20 (1.4)	KB-06407-87	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	25 (1.7)	KB-06407-88	
7/16 (11.2)	9/16 (14.4)	1/16 (1.6)	13 (0.9)	KB-06407-89	
1/2 (12.8)	5/8 (16.0)	1/16 (1.6)	12 (1.8)	KB-06407-90	
1/2 (12.8)	11/16 (1.6)	3/32 (2.4)	15 (1.0)	KB-06407-91	
1/2 (12.8)	3/4 (19.1)	1/8 (3.2)	20 (1.4)	KB-06407-92	
1/2 (12.8)	13/16 (20.8)	5/32 (4.0)	24 (1.7)	KB-06407-93	
5/8 (16.0)	13/16 (20.8)	3/32 (2.4)	13 (0.9)	KB-06407-94	
5/8 (16.0)	7/16 (11.2)	1/8 (3.2)	17 (1.2)	KB-06407-95	
3/4 (19.1)	1 (25.4)	1/8 (3.2)	14 (1.0)	KB-06407-96	
3/4 (19.1)	1 1/8 (28.6)	3/16 (4.8)	20 (1.4)	KB-06407-97	
1 (25.4)	1 1/4 (31.8)	1/8 (3.2)	12 (0.8)	KB-06407-98	
1 (25.4)	1 1/2 (66.8)	1/4 (6.4)	20 (1.4)	KB-06407-99	

Microbore/Autoanalysis Tubing

Dimensions: in. (mm)			Fits needle gauge	Catalog number	Price/ 100-ft pk
ID	OD	Wall			
0.008 (0.19)	0.080 (2.03)	0.036 (0.91)	33	KB-06460-10	
0.010 (0.25)	0.082 (2.08)	0.036 (0.91)	30	KB-06460-12	
0.017 (0.44)	0.093 (2.36)	0.036 (0.91)	26	KB-06460-16	
0.020 (0.51)	0.096 (2.44)	0.036 (0.91)	24	KB-06460-18	
0.025 (0.64)	0.101 (2.57)	0.036 (0.91)	23	KB-06460-22	
0.035 (0.89)	0.111 (2.82)	0.036 (0.91)	20	KB-06460-26	
0.040 (1.02)	0.116 (2.95)	0.036 (0.91)	19	KB-06460-28	
0.045 (1.14)	0.121 (3.07)	0.036 (0.91)	18	KB-06460-30	
0.056 (1.42)	0.132 (3.35)	0.036 (0.91)	17	KB-06460-34	
0.081 (2.06)	0.157 (3.99)	0.036 (0.91)	14	KB-06460-42	
0.110 (2.79)	0.186 (4.72)	0.036 (0.91)	12	KB-06460-48	

Handheld Tubing Cutter

Steel blade coated with PTFE resin produces clean, straight cuts through tubing up to 1 1/4" OD (cuts polyethylene tubing up to 1 1/2" OD). Order carrying pouch and replacement blade separately below.

Description	Catalog number	Price
Handheld tubing cutter	KB-06438-90	
Tubing cutter pouch	KB-06438-81	
Replacement blade	KB-06438-92	

Tubing Accessories

Benchtop Tubing Cutter

Steel blade makes right-angle cuts in plastic tubing 1/16" to 5/8" OD.

KB-06438-10 **Benchtop cutter**
KB-06438-11 **Replacement blade**

Stainless Steel Hose Clamps

SS strap and screw housing with a steel screw. Band-type worm drive.

Clamp diameter		Catalog number	Price/ pk of 10*
Min	Max		
7/32"	5/8"	KB-06403-11	
11/16"	1 1/4"	KB-06403-12	
13/16"	1 3/4"	KB-06403-13	
1 1/16"	2"	KB-06403-14	
1 5/16"	2 1/4"	KB-06403-15	
2"	2 3/4"	KB-06403-16	
2 3/4"	3 1/2"	KB-06403-21	
3 1/2"	4 3/8"	KB-06403-22	
4 3/8"	5 1/8"	KB-06403-23	
5 1/8"	5 7/8"	KB-06403-24	
5 1/2"	6 1/4"	KB-06403-25	

***Discounts:** Save 10% on 5–24 pks, 15% on 25–99 pks, and 20% on 100+ pks.

Cole-Parmer® Plastic Hose Clamps and Kits

Reusable white acetal copolymer clamps will not rust or corrode. Recommended for continuous use from ambient temperature to 200°F (93°C). Clamps are nonconducting and stable in a wide variety of chemicals.

Once set, clamps stay put. To use, just position clamp on hose or tubing bundle and press the jaws together with a pair of pliers. Order clamps individually or in a handy kit.

Cole-Parmer®

Inside diameter				Catalog number	Qty/pk	Price/ pk**
Decimal inches		Millimeters				
Min	Max	Min	Max			
0.228	0.256	5.8	6.5	KB-06832-01	100	
0.269	0.291	6.8	7.4	KB-95614-00	100	
0.307	0.342	7.8	8.7	KB-06832-03	100	
0.351	0.394	8.9	10.0	KB-06832-02	100	
0.387	0.440	9.8	11.2	KB-95614-01	100	
0.404	0.452	10.3	11.5	KB-06832-04	100	
0.449	0.511	11.4	13.0	KB-06832-06	100	
0.513	0.586	13.0	14.9	KB-06832-08	100	
0.569	0.650	14.5	16.5	KB-06832-10	100	
0.616	0.707	15.7	18.0	KB-06832-12	100	
0.702	0.801	17.8	20.4	KB-06832-14	100	
0.759	0.848	19.3	21.5	KB-06832-16	100	
0.779	0.899	19.8	22.8	KB-06832-18	100	
0.859	0.989	21.8	25.1	KB-06832-20	100	
0.928	1.072	23.6	27.2	KB-06832-22	100	
0.985	1.135	25.0	28.8	KB-06832-24	100	
1.123	1.296	28.5	32.9	KB-06832-28	50	
1.218	1.405	30.9	35.7	KB-06832-32	50	

****Discounts:** Save 10% on 4–19 pks, 15% on 20–79 pks, and 20% on 80+ pks.

KB-06832-99 **White acetal copolymer hose-clamp kit** includes 170 assorted clamps from 0.228" to 1.405" ID

Cole-Parmer® Ultrasonic Cleaners

Quicker cleaning and degassing of samples

– High-frequency sound waves provide greater cleaning and reliability
– Gentle cleaning with 40 kHz sound waves won't damage delicate items
– Durable, leakproof design for worry-free cleaning

Basic Ultrasonic Cleaners

– Set timer and don't worry—control cleaning cycles up to 60 minutes
– Get better cleaning with optional heater models—heat to 156°F (69°C) with overtemperature protection

Advanced Ultrasonic Cleaners

– Easily control your precise applications—feature digital timer, power tracking, sleep, and degas mode
– Worry-free processes—set timer for up to 90 minutes, unit automatically compensates for heavier loads
– Get deeper cleaning with optional heater option

08895-43

Cole-Parmer®

Capacity gal. (L)	Tank dimensions (L x W x H)	Power (50/60 Hz)	Basic cleaner with mechanical timer			Basic cleaner with mechanical timer and heater			Advanced cleaner with digital timer, power tracking, and degas			Advanced cleaner with digital timer, power tracking, high/low power, degas and heater		
			Amps	Cat. no.	Price	Amps	Cat. no.	Price	Amps	Cat. no.	Price	Amps	Cat. no.	Price
½ (1.9)†	6" x 5½" x 4" (15.2 x 14 x 10.2 cm)	115 VAC	0.8	KB-08895-21		1.2	KB-08895-23		0.8	KB-08895-25		1.3	KB-08895-27	
		230 VAC	0.4	KB-08895-29		0.7	KB-08895-31		0.4	KB-08895-33		0.7	KB-08895-35	
¾ (2.8)†	9½" x 5½" x 4" (24.1 x 14 x 10.2 cm)	115 VAC	1.1	KB-08895-37		2	KB-08895-39		1.1	KB-08895-41		2	KB-08895-43	
		230 VAC	0.6	KB-08895-45		1.1	KB-08895-47		0.6	KB-08895-49		1.1	KB-08895-51	
1½ (5.7)‡	11½" x 6" x 6" (29.2 x 15.2 x 15.2 cm)	115 VAC	1.1	KB-08895-53		2.9	KB-08895-55		1.1	KB-08895-57		2.9	KB-08895-59	
		230 VAC	0.6	KB-08895-61		1.5	KB-08895-63		0.6	KB-08895-65		1.6	KB-08895-67	
2½ (9.5)‡	11½" x 9½" x 6" (29.2 x 24.1 x 15.2 cm)	115 VAC	1.5	KB-08895-69		4	KB-08895-71		1.5	KB-08895-73		4.1	KB-08895-75	
		230 VAC	0.8	KB-08895-77		2.1	KB-08895-79		0.8	KB-08895-81		2.1	KB-08895-83	
5½ (20.8)‡	19½" x 11" x 6" (49.5 x 27.9 x 15.2 cm)	115 VAC	2.7	KB-08895-85		7.7	KB-08895-87		2.7	KB-08895-89		7.8	KB-08895-91	
		230 VAC	1.4	KB-08895-93		4	KB-08895-95		1.4	KB-08895-97		4	KB-08895-99	

†The ½- and ¾-gallon cleaners have a pour spout. ‡The 1½-, 2½-, and 5½-gallon cleaners have a built-in pour drain.

Cole-Parmer® SS Ultrasonic Cleaners

Stainless steel durability at a great price

– Multiple power settings handle both normal or delicate cleaning
– Degas mode for improved cleaning efficiency and easy sample prep
– Timed operation from 1 to 99 minutes or continuous
– Adjustable heating to 176°F (80°C) for deeper cleaning

Cole-Parmer ultrasonic cleaners are extremely effective at removing dirt and grime which would normally require tedious manual cleaning. The 40 kHz high-frequency ultrasonic wave vibrations create microscopic bubbles that implode violently causing the cavitation which creates an intense scrubbing action on the surface of the item being cleaned. The microscopic nature of the bubbles ensures that even the tiniest crevices will be cleaned thoroughly. These units can clean almost any nonporous item that can normally be immersed in water.

These stainless steel cleaners feature a bright LED display for time and temperature and easy push-button control. Sturdy rubber feet prevent movement while in use, handles allow easy portability, and the larger sizes (6 liter and above) have external drains for easy replenishment of cleaning solutions.

What's included: lid, mesh basket, outlet filter, and power cord with plug.

Cole-Parmer®

Capacity gal. (L)	Tank dimensions (L x W x H)	Overall dimensions (L x W x H)	Power (VAC, Hz)	Catalog number	Price
0.5 (2)	5 15/16" x 5½" x 3 15/16" (15 x 14 x 10 cm)	7½" x 6 11/16" x 8 11/16" (19 x 17 x 22 cm)"	120, 60	KB-08895-01	
			240, 50	KB-08895-03	
0.75 (3)	9 7/16" x 5½" x 3 15/16" (24 x 14 x 10 cm)	10 5/8" x 6 11/16" x 9 7/16" (27 x 17 x 24 cm)"	120, 60	KB-08895-05	
			240, 50	KB-08895-07	
1.5 (6)	11 13/16" x 6⅛" x 5 15/16" (30 x 15.5 x 15 cm)	13" x 7 1/16" x 12 3/16" (33 x 18 x 31 cm)"	120, 60	KB-08895-09	
			240, 50	KB-08895-11	
2.5 (9)	11 13/16" x 9 7/16" x 5 15/16" (30 x 24 x 15 cm)"	13" x 10 7/16" x 12 3/16" (33 x 27 x 31 cm)"	120, 60	KB-08895-13	
			240, 50	KB-08895-15	
3.5 (13)	13" x 11 13/16" x 5 15/16" (33 x 30 x 15 cm)	14 3/16" x 13" x 12 3/16" (36 x 33 x 31 cm)"	120, 60	KB-08895-17	
			240, 50	KB-08895-19	
5.25 (20)	19 11/16" x 11 13/16" x 5 15/16" (50 x 30 x 15 cm)"	21 11/16" x 13" x 12 3/16" (55 x 33 x 31 cm)"	120, 60	KB-08895-72	
			240, 50	KB-08895-74	
7.25 (27)	19 11/16" x 11 13/16" x 7⅞" (50 x 30 x 20 cm)"	21 11/16" x 13" x 14 3/16" (55 x 33 x 36 cm)"	120, 60	KB-08895-76	
			240, 50	KB-08895-78	

Cole-Parmer® Air Cadet® Vacuum/Pressure Pumps

Get better results with minimal dead space

- Minimizes dead space and air entrapment with unique cavity configuration
- No maintenance needed—AC motors are brushless with sealed ball bearings
- Worry-free pumping with reduced stress, wear, and heat buildup

A–B. Single- and Dual-Head Pumps

- Handle tough applications easily
- Increase your capacity with dual-head models independently pumping or connected in series
- Easy shut-off with power switch on all models except 07532-65

What's included: PTFE thread tape and polyethylene ⅜" NPT(M) x ⅜" hose barb adapters.

C. Vacuum/Pressure Stations

- Increase productivity—evacuate or pressurize two systems simultaneously with auxiliary port
- Get control with built-in bronze and brass gauge and stainless steel regulator

What's included: PTFE thread tape, two polyethylene ⅜" NPT(M) x ⅜" hose barb adapters, and one polyethylene ¼" NPT(M) x ⅜" hose barb adapter (for auxiliary port).

D. OEM Vacuum/Pressure Pumps

- Get long, reliable operation—continuous operation up to 18 psi for 4000 service hours
- Provides pumping with minimal stress and heat buildup

WARNING: This product can expose you to chemicals including BPA, lead, and phthalates, which is known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov

ISO 9001:2008 CERTIFIED SUPPLIER

RUNS DRY

Free-air capacity cfm (LPM)	Max vacuum " Hg (Torr)	Max pressure psi (bar)	Wetted parts	Noise rating	Port size	Power	Catalog number	Price
A. Single-head pumps								
0.54 (15.5)	20 (508)	18 (1.24)	Noryl® pump head, FKM diaphragm, PTFE valves, and polyethylene (PE) adapters	72 dB(A)	⅜" hose barb	115 VAC, 60 Hz	KB-07532-40	
0.45 (13)						230 VAC, 50 Hz	KB-07532-45	
B. Dual-head pumps								
1.1 (31)†	20 (508)	18 (1.24)	Noryl pump head, FKM diaphragm, PTFE valves, and PE adapters	76 dB(A)	⅜" hose barb	115 VAC, 60 Hz	KB-07532-60	
0.91 (26)†						230 VAC, 50 Hz	KB-07532-65‡	
C. Vacuum/pressure stations								
0.5 (14.1)	20 (508)	18 (1.24)	FKM diaphragm, SS regulator, bronze/brass gauge, and PE adapters	73 dB(A)	⅜" hose barb	115 VAC, 60 Hz	KB-07532-80	
0.4 (11.3)						230 VAC, 50 Hz	KB-07532-85	
D. OEM vacuum/pressure pumps								
0.6 (17)	20 (508)	18 (1.24)	Noryl pump head, FKM diaphragm, PTFE valves	72 dB(A)	⅜" NPT(F)	115 VAC	KB-07530-85	
	18 (457.2)	15 (1.03)	Noryl pump head, FKM diaphragm, PTFE valves, and PE adapters			12 VDC	KB-07532-25	

† Total free-air capacity. Single-channel capacity is half this value. ‡ Power switch not available on this model. **Note:** Do not use metal fittings with any Air Cadet pump.

Accessories

KB-07395-20 **Vacuum/pressure gauge connector kit,** brass. Contains two PE adapters and one each of bushing, pipe tee, and adapter for pipe mount

KB-07530-06 **Service kit.** Contains long-life nitrile diaphragm, Noryl pump head, two PTFE valves, and two Noryl retainers

Replacement Parts

KB-07530-77 **Pump head assembly,** Valox®. Includes valves and retainers. For continuous pressures greater than 14 psi

KB-07530-71 **Diaphragm clamp assembly;** includes diaphragm clamp and shaft, and eccentric assembly

KB-07530-79 **Diaphragm shaft**

KB-07530-75 **Eccentric assembly**

KB-08270-33 **Thread sealer tape** of PTFE resin. Each roll measures 260"L x ½"W. Pack of 10 rolls

General-Purpose Plastic Vials

One vial, a multitude of uses

A. Sample Vials with Snap Caps are shatterproof low-density polyethylene with secure, friction-fit caps. Use for all general applications.

Capacity	Qty/pk	Catalog number	Price/pk
5 mL	12	KB-06087-05	
12 mL		KB-06087-15	
18 mL		KB-06087-25	
28 mL	12	KB-06087-35	
50 mL		KB-06087-45	
75 mL		KB-06087-55	

B. Miniature Vials with Hinged Caps open and close with a flick of your thumb. One-piece vial and airtight cap are made of low-density polyethylene.

Capacity	Qty/pk	Catalog number	Price/pk
0.3 mL	1000	KB-06094-10	
1.7 mL		KB-06094-20	
2.1 mL		KB-06094-30	
8.4 mL		KB-06094-50	
16.9 mL	500	KB-06094-60	
29.6 mL		KB-06094-70	
42.3 mL		KB-06094-80	

C. Snap-Cap Sample Vials are clear polystyrene with polyethylene caps. These durable, lightweight vials withstand normal centrifugation.

Capacity	Qty/bx	Catalog number	Price/bx
18.5 mL	144	KB-06102-15	
25.9 mL		KB-06102-20	
55.5 mL		KB-06102-35	
74.0 mL		KB-06102-40	

Class A Sample Glass Vials

No more ion leaching

Screw-thread sample vials are manufactured from either clear 33 expansion borosilicate clear glass (Type 1, Class A) or 51A amber glass. Vials maintain pH level and eliminate ion leaching. Choose from a urea cap with PTFE foam-backed liner or an open-top, unlined polypropylene cap with PTFE/silicone septa. Vials, caps, and septa are shrink-wrapped separately.

Capacity	Qty/pk	Clear vials		Amber vials	
		Catalog number	Price/pk	Catalog number	Price/pk
Vials with urea cap/PTFE foam-backed liner					
2 mL	100	KB-08922-21		KB-08922-31	
4 mL	100	KB-08922-22		KB-08922-32	
8 mL	200	KB-08922-23		KB-08922-33	
12 mL	200	KB-08922-24		KB-08922-34	
16 mL	200	KB-08922-26		KB-08922-36	
20 mL	100	KB-08922-27		—	—
22 mL	200	KB-08922-28		—	—
40 mL	100	KB-08922-29		KB-08922-39	
Vials with open-top, unlined polypropylene cap and PTFE/silicone septa					
2 mL	100	KB-08922-41		KB-08922-51	
4 mL	100	KB-08922-42		KB-08922-52	
8 mL	200	KB-08922-43		KB-08922-53	
12 mL	200	KB-08922-44		KB-08922-54	
16 mL	200	KB-08922-46		KB-08922-56	
22 mL	200	KB-08922-48		—	—
40 mL	100	KB-08922-49		KB-08922-59	

Snap-Seal™ Sample Containers

Won't spill or leak

- Cap remains securely locked
- Reduce chance of contamination with hinged-cap design
- Autoclavable polypropylene

Capacity	Catalog number	Qty/pk	Price/pk
13 mL	KB-62261-00	500	
45 mL	KB-62261-10	400	
120 mL	KB-62261-20	200	
240 mL	KB-62261-30	100	
300 mL	KB-62261-40	100	

WHEATON® Scintillation Glass Vials

Stand up to most chemicals

- Sample and store up to 20 mL
- Measure 2⅜"H x 1⅛" OD (61 mm H x 28 mm OD) with cap

Cap material	Cap liner	Cap size	Caps	Catalog number	Qty/cs	Price/cs
Urea	Metal foil	22	On	KB-08918-01	500	
Urea	Polyseal® cone			KB-08918-02		
Urea	Polyethylene disc			KB-08918-03		
Urea	Polyethylene disc	24	On	KB-08918-05	500	
Polypropylene	Metal foil	22		KB-08918-06		

WHEATON® Specimen Glass Vials

Keep moisture out of samples

Clear soda-lime glass is chemically durable. The LDPE snap-on caps form an airtight seal—perfect for moisture sensitive materials. Finger tab on cap allows easy removal. Vials are on pull-out trays; two trays per case.

Capacity	Cap size	Catalog number	Qty/cs	Price/cs
8 mL	22 mm	KB-08921-01	144	
12 mL	22 mm	KB-08921-02		
16 mL	30 mm	KB-08921-03		
30 mL	34 mm	KB-08921-05	72	
60 mL	45 mm	KB-08921-06		
120 mL	45 mm	KB-08921-07		

More than 30,000 Chemicals

Choose from various grades, package sizes, and delivery options

- Basic reagents
- Buffers
- Sorbents
- Standards (AA & ICP)
- Bioreagents

Consistent quality, available when you need it

Most ship within 48 hours of ordering!

Custom blending services and express delivery also available.

Choose from these **customer favorites...**

Description	Volume/Mass	Catalog number	Price
Sodium Hydroxide, 1.0 Normal	1 L	KB-88400-89	
Water, ACS Reagent Grade, ASTM Type I	4 L	KB-88401-21	
Isopropanol, 70% (v/v) Aqueous Solution	1 gal.	KB-88400-48	
Acetone, ACS Grade, Poly Bottle	4 L	KB-88406-15	
Sulfuric Acid Solution, 1.00 Normal	1 L	KB-88401-09	
Reagent Alcohol, ACS Reagent Grade, Anhydrous, Absolute	1 gal.	KB-88400-66	
Hydrochloric Acid, 1.00 Normal	1 L	KB-88400-40	
Iodine (Iodine-Iodide), 0.100 Normal (N/10)	32 oz	KB-88400-47	
Silver Nitrate, 0.100 Normal (N/10)	1 L	KB-88400-70	
Acetic Acid, Glacial, ACS Grade	2.5 L	KB-88401-62	
Sodium Chloride, ACS Grade	500 g	KB-88404-60	

...or find them all at **ColeParmer.com/Chemicals**

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