



Lab Essentials

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



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assistance**

Polo, Application Specialist

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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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**Cole-Parmer®
Single-Channel
Electronic Pipettors**

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Digital Batch Mixer**



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We've
Got It!
Guaranteed.**



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 12/31/18 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.

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.”



Adjustable back belt



White



Black



Light blue

Navy



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

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

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 3/4" (1.9 cm) H. Please specify the name(s) you want embroidered (up to 11 characters) when you place your order.



Mike

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)	41 1/2" (105 cm)	MA-86351-00		MA-86351-10	
Medium (38.5-42)		MA-86351-02		MA-86351-12	
Large (42.5-46)		MA-86351-04		MA-86351-14	
X-large (46.5-50)		MA-86351-06		MA-86351-16	

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	MA-86225-31	
Large	MA-86225-32	
X-large	MA-86225-33	



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	41 1/2" (105.4 cm)	MA-86468-30	
Medium		MA-86468-31	
Large		MA-86468-32	
X-large		MA-86468-33	

Polypropylene (PP) Shoe Covers

Contain particulates from shoe soles

Regular soles
86227-82

- 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	MA-86227-82		
Skid-free sole			MA-86227-92		

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	MA-86228-12	

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

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

“Speci-Sponge” Bags are designed to sample surfaces and equipment for *Listeria*, *Salmonella*, and other food-borne pathogens; contain a 1½" x 3" (3.8 x 7.6 cm) 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.

High-Temperature Bag is for hot fill samples with a temperature up to 215°F (102°C). The FDA-compliant film is a blend of low-density polyethylene and nylon that will hold liquids, solids, sauces, gravies, and other samples having a high temperature. Bag is self standing and does not need a rack or special holder to keep it upright, making sample collection safe and easy. With white labeling area.

Caution: Do not put bag in boiling water.



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	MA-06499-10	500	
18 (532)	4½" x 9" (11.4 x 22.9 cm)	2.5	MA-06499-20	500	
24 (710)	6" x 9" (15.2 x 22.9 cm)	3.0	MA-06499-30	500	
36 (1065)	5" x 15" (12.7 x 38.1 cm)	3.0	MA-06499-40	500	
42 (1242)	6" x 15" (15.2 x 38.1 cm)	3.0	MA-06499-50	500	
69 (2041)	7½" x 15" (19.1 x 38.1 cm)	3.0	MA-06499-54	500	
Standup sampling bags with white labeling area					
4 (118)	3" x 7¼" (7.6 x 18.4 cm)	2.5	MA-06499-16	500	
18 (532)	4½" x 9" (11.4 x 22.9 cm)	3.0	MA-06499-21	500	
24 (710)	6" x 9" (15.2 x 22.9 cm)	3.0	MA-06499-31	500	
36 (1065)	5" x 15" (12.7 x 38.1 cm)	4.0	MA-06499-33	250	
42 (1242)	6" x 15" (15.2 x 38.1 cm)	4.0	MA-06499-34	250	
69 (2041)	7½" x 15" (19.1 x 38.1 cm)	4.0	MA-06499-35	250	
Sampling bags with white labeling area					
2 (58)	3" x 5" (7.6 x 12.7 cm)	2.5	MA-06499-60	500	
4 (118)	3" x 7¼" (7.6 x 18.4 cm)	2.25	MA-06499-70	500	
7 (207)	3¾" x 7" (9.5 x 17.8 cm)	2.5	MA-06499-72	500	
13 (384)	5¼" x 7½" (13.3 x 19.1 cm)	2.5	MA-06499-74	500	
18 (532)	4½" x 9" (11.4 x 22.9 cm)	2.5	MA-06499-80	500	
24 (710)	6" x 9" (15.2 x 22.9 cm)	3.0	MA-06499-85	500	
27 (798)	5" x 12" (12.7 x 30.5 cm)	3.0	MA-06499-87	500	
69 (2041)	7½" x 15" (19.1 x 38.1 cm)	3.0	MA-06499-89	500	
92 (2721)	10" x 15" (25.4 x 38.1 cm)	4.0	MA-06499-94	250	
123 (3637)	10" x 20" (25.4 x 50.8 cm)	4.0	MA-06499-98	250	
184 (5441)	15" x 20" (38.1 x 50.8 cm)	4.0	MA-06499-99	100	
"Speci-Sponge" bags for surface sampling with sponge					
18 (532)	4½" x 9" (11.4 x 22.9 cm)	2.5	MA-06499-13	100	
55 (1627)	7½" x 11¾" (19.1 x 29.8 cm)	4.0	MA-06499-14	100	
18 (532)	4" x 9" (10.2 x 22.9 cm)	2.5	MA-06499-52†	100	
Sodium thiosulfate bags for water sampling with tablet					
3½ (100)	3" x 7¼" (7.6 x 18.4 cm)	2.5	MA-06499-90	100	
10½ (300)	4½" x 9" (11.4 x 22.9 cm)	2.5	MA-06499-95	100	
High-temperature bag					
18 (532)	4½" x 9" (11.4 x 22.9 cm)	3.0	MA-06498-16	500	

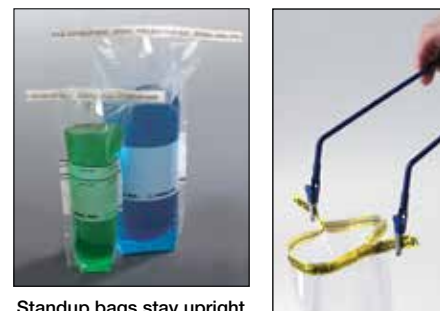
†Model 06499-52 has a sterile glove.

Accessories

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

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

MA-06498-12 Water scoop, 18" (45.7 cm) L coated handle. Two alligator clips hold a variety of bag sizes



Standup bags stay upright

Water scoop holds bag open for easy filling



Rack

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	5½" x 5½" (13 x 13 cm)	MA-10001-10	
410 g	0.001 g	±0.002 g	±0.002 g		MA-10001-11	
2200 g	0.01 g	±0.02 g	±0.02 g	7½" x 6¼"	MA-10001-12	
4200 g	0.01 g	±0.02 g	±0.02 g	(19 x 16 cm)	MA-10001-13	
External calibration						
210 g	0.001 g	±0.002 g	±0.002 g	5½" x 5½" (13 x 13 cm)	MA-10001-02	
410 g	0.001 g	±0.002 g	±0.002 g		MA-10001-03	
2200 g	0.01 g	±0.02 g	±0.02 g		MA-10001-04	
4200 g	0.01 g	±0.02 g	±0.02 g	7½" x 6¼"	MA-10001-05	
5000 g	0.1 g	±0.2 g	±0.4 g	(19 x 16 cm)	MA-10001-06	
15000 g	0.1 g	±0.2 g	±0.4 g		MA-10001-07	



Accessories

[MA-11120-78](#) Compact thermal printer

[MA-10000-47](#) Kensington™ type security lock and cable

[MA-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)	MA-10001-08	
220 g	0.0001 g	±0.0002 g	±0.0002 g		MA-10001-09	
External calibration						
120 g	0.0001 g	±0.0002 g	±0.0002 g	3½" dia (9 cm)	MA-10001-00	
220 g	0.0001 g	±0.0002 g	±0.0002 g		MA-10001-01	



Accessories

[MA-11120-78](#) Compact thermal printer

[MA-10000-47](#) Kensington™ type security lock and cable

[MA-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

NEW

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.

Symmetry®



10102-23



10102-27

Specifications

Weighing units: g, mg, kg, ct, lb, oz, ozt, dwt, tlb, 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



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" x 5" (12.8 x 12.8 cm)	MA-10102-27†		MA-10102-37†	
600 g		±0.003 g	±0.003 g		MA-10102-28†		MA-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)	MA-10102-29		MA-10102-39	
2100 g		±0.02 g	±0.02 g		MA-10102-30		MA-10102-40	
4500 g		±0.02 g	±0.02 g		MA-10102-31		MA-10102-41	
6000 g		±0.03 g	±0.03 g		MA-10102-32		MA-10102-42	
LA analytical balances								
62 g	0.0001 g	±0.00003 g	±0.00006 g	3½" (9 cm)	—	—	MA-10102-33‡	
82/220 g	0.00001/0.0001 g	±0.0001 g	±0.0002 g		MA-10102-23‡		—	—
160 g	0.0001 g	±0.0001 g	±0.0002 g	4" (10 cm)	MA-10102-24‡		MA-10102-34‡	
220 g					MA-10102-25‡		MA-10102-35‡	
310 g					MA-10102-26‡		MA-10102-36‡	

†Includes short open-air draft shield.

‡Includes tall enclosed glass draft shield with three doors.

[MA-10100-83](#) Cable, RS-232 to USB

[MA-10100-84](#) Cable, RS-232 to printer

[MA-10100-85](#) Printer

[MA-10100-86](#) Printer paper. Pack of 3

[MA-10100-88](#) Density determination kit for 5" x 5" (12.8 x 12.8 cm) weighing pan

[MA-10100-87](#) Density determination kit for analytical models

[MA-10100-90](#) Lock-down cable, 36"L x 3/32" dia (91.4 x 0.3 cm)

[MA-10100-93](#) Draft shield for 5" x 5" (12.8 x 12.8 cm) weighing pan

[MA-01017-04](#) Square weigh boats, white polystyrene, 20 mL.

Pack of 100

[MA-17101-52](#) NIST-traceable calibration with data for balances

Cole-Parmer® StableTemp® Digital Utility Water Baths

Digital accuracy
at an analog price

- Recall settings at the touch of a button
- Know when process is complete with built-in timer

Dual thermostat baths provide $\pm 0.1^\circ\text{C}$ precision and overtemperature safety feature prevents overheating. Seamless tank eliminates rusting and is easy to clean.



StableTemp



Specifications

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

Temperature uniformity: $\pm 0.2^\circ\text{C}$

Temperature stability: $\pm 0.1^\circ\text{C}$

Wetted materials: 304 SS

High-temperature cutoff: yes

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 $\frac{3}{8}$ " x 4 $\frac{1}{8}$ "	5 $\frac{1}{2}$ "	MA-14576-00		MA-14576-02	
5 L	5" x 10 $\frac{1}{4}$ "	5 $\frac{1}{2}$ "	MA-14576-04		MA-14576-06	
10 L	10 $\frac{1}{8}$ " x 11 $\frac{1}{8}$ "	5 $\frac{1}{2}$ "	MA-14576-08		MA-14576-10	
20 L	9 $\frac{1}{2}$ " x 17 $\frac{1}{2}$ "	5"	MA-14576-12		MA-14576-14	
28 L	9 $\frac{1}{2}$ " x 17 $\frac{1}{2}$ "	7"	MA-14576-16		MA-14576-18	

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	MA-01294-60	MA-01297-00	MA-01294-40	MA-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 $^\circ\text{C}$	-84 $^\circ\text{C}$	-22 $^\circ\text{C}$
Flash point	288 $^\circ\text{C}$	65 $^\circ\text{C}$	246 $^\circ\text{C}$	302 $^\circ\text{C}$
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.

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®



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	$\pm 0.05^\circ\text{C}$	250 W	Force	4.4 (310)	17	5 $\frac{5}{8}$ " x 4 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " (13.5 x 12.2 x 15 cm)	115, 60 230, 50	MA-12122-02 MA-12122-04	
8.6 L	-28 to 100°C	$\pm 0.05^\circ\text{C}$	500 W	Force	4.4 (310)	17	6 $\frac{1}{4}$ " x 7 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " (17.3 x 18.3 x 15 cm)	115, 60 230, 50	MA-12122-32 MA-12122-34	
8.6 L	-28 to 150°C	$\pm 0.05^\circ\text{C}$	500 W	Force	4.4 (310)	17	6 $\frac{1}{4}$ " x 7 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " (17.3 x 18.3 x 15 cm)	115, 60 230, 50	MA-12122-36 MA-12122-38	
Advanced digital controller baths										
6.5 L	-20 to 100°C	$\pm 0.025^\circ\text{C}$	250 W	Force/suction	11.7 (750)	21	5 $\frac{5}{8}$ " x 4 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " (13.5 x 12.2 x 15 cm)	115, 60 230, 50	MA-12122-12 MA-12122-14	
6.5 L	-20 to 100°C	$\pm 0.025^\circ\text{C}$	250 W	Force/suction	11.7 (750)	21	5 $\frac{5}{8}$ " x 4 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " (13.5 x 12.2 x 15 cm)	115, 60 230, 50	MA-12122-26 MA-12122-28	
8.6 L	-28 to 200°C	$\pm 0.025^\circ\text{C}$	500 W	Force/suction	11.7 (750)	21	6 $\frac{1}{4}$ " x 7 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " (17.3 x 18.3 x 15 cm)	115, 60 230, 50	MA-12122-42 MA-12122-44	
8.6 L	-35 to 200°C	$\pm 0.025^\circ\text{C}$	800 W	Force/suction	11.7 (750)	21	6 $\frac{1}{4}$ " x 7 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " (17.3 x 18.3 x 15 cm)	115, 60† 230, 50†	MA-12122-56 MA-12122-58	

†Requires 20 amp current.



Disposable Griffin Low-Form Beakers, PP

Molded-in graduations won't wear off

- No need to convert volumes—graduated in mL and oz
- Won't stick together—stacking rib for easier separation
- 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)	Graduations (mL)	Catalog number	Qty/pk	Price/pk
15 (0.5)	5	MA-06006-12	100	
15 (0.5)	5	MA-06006-15	1000	
30 (1)	5	MA-06006-22	100	
30 (1)	5	MA-06006-25	1000	
50 (1.7)	5	MA-06006-32	100	
50 (1.7)	5	MA-06006-35	1000	
100 (3.5)	5	MA-06006-42	100	
100 (3.5)	5	MA-06006-45	1000	
150 (5)	5	MA-06006-52	100	
150 (5)	5	MA-06006-55	1000	
250 (8)	10	MA-06006-63	50	
250 (8)	10	MA-06006-65	500	
400 (13)	25	MA-06006-72	50	
400 (13)	25	MA-06006-75	500	
600 (20)	25	MA-06006-83	25	
600 (20)	25	MA-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 $\pm 5\%$; molded graduations
- Withstand temperatures to 250°F (121°C)
- Autoclavable



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

Cole-Parmer® elements™ Graduated Beakers, PP

Molded-in graduations will not wear off

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

NEW



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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	MA-06200-02	100	
30 (1)	5	MA-06200-04		
50 (1¾)	5	MA-06200-06		
100 (3½)	5	MA-06200-08		
150 (5)	5	MA-06200-10	50	
250 (8)	10	MA-06200-12		
400 (13)	25	MA-06200-14		
600 (20)	25	MA-06200-16	25	

Cole-Parmer® Broad-Spout Beakers, PTFE

Stand up to the harshest chemicals

- Pour easily with broad spout
- Heatable beakers can be used on hot plates to 518°F (270°C)
- Autoclavable

Heatable beaker 06300-02 has a PTFE carbon base.



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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)	MA-06300-02	1		MA-06300-87	1	
250 (8)	MA-06300-04	1		MA-06300-91	1	
400 (13)	MA-06300-06	1		MA-06300-93	1	
Beakers						
1 (0.03)	MA-06300-62	2		MA-06300-79	2	
5 (1.17)	MA-06300-64	2		MA-06300-81	2	
10 (0.3)	MA-06300-66	2		MA-06300-81	2	
25 (0.8)	MA-06300-68	2		MA-06300-83	2	
50 (1.6)	MA-06300-74	1		MA-06300-85	1	
100 (3)	MA-06300-76	1		MA-06300-87	1	
150 (5)	MA-06300-78	1		MA-06300-89	1	
250 (8)	MA-06300-82	1		MA-06300-91	1	
400 (13)	MA-06300-84	1		MA-06300-93	1	
500 (16)	MA-06300-86	1		MA-06300-93	1	
600 (20)	MA-06300-88	1		MA-06300-95	1	
1000 (32)	MA-06300-92	1		MA-06300-95	1	
2000 (64)	MA-06300-94	1		MA-06300-97	1	
5000 (170)	MA-06300-96	1		MA-06300-99	1	

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)

NEW



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

Large-Capacity Beakers, PP

No need to mix multiple smaller volumes

NEW

- 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



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



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

PYREX® Brand 1003 Heavy-Duty Griffin Beakers

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

PYREX® Brand 1060 Berzelius Beakers

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



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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	MA-34513-01	12		MA-34513-21	48	
200 (7)	25	MA-34513-02	12		MA-34513-22	48	
300 (10)	25	MA-34513-03	12		MA-34513-23	48	
400 (13)	25	MA-34513-04	6		MA-34513-24	36	
500 (16)	50	MA-34513-05	6		MA-34513-25	30	
600 (20)	50	MA-34513-06	6		MA-34513-26	24	
1000 (32)	50	MA-34513-10	6		MA-34513-30	18	

PYREX® Brand 1000 Griffin Low-Form Beakers

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



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

Suitable for all lab procedures

NEW

- 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.

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Capacity mL (oz)	Graduation range (mL)	Graduation interval (mL)	Catalog number	Qty/ pk	Price/ pk
10 (1/8)	—	—	MA-34502-01	12	
20 (2/8)	5 to 15	5	MA-34502-02		
30 (1)	5 to 25	10	MA-34502-03		
50 (1 3/4)	10 to 40	10	MA-34502-04		
100 (3)	20 to 80	10	MA-34502-05	12	
150 (5)	20 to 140	10	MA-34502-06		
250 (8)	25 to 200	25	MA-34502-07		
400 (13)	25 to 325	25	MA-34502-08		
600 (20)	50 to 500	50	MA-34502-09	6	
800 (27)	50 to 750	50	MA-34502-10	6	
1000 (32)	50 to 1000	50	MA-34502-11	6	
2000 (64)	200 to 2000	100	MA-34502-13	4	
3000 (96)	250 to 2500	125	MA-34502-14	1	
4000 (128)	500 to 3500	250	MA-34502-15	1	
10 (1/8)	—	—	MA-34502-21	48	
20 (2/8)	5 to 15	5	MA-34502-22		
30 (1)	5 to 25	10	MA-34502-23		
50 (1 3/4)	10 to 40	10	MA-34502-24		
100 (3)	20 to 80	10	MA-34502-25	48	
150 (5)	20 to 140	10	MA-34502-26		
250 (8)	25 to 200	25	MA-34502-27		
400 (13)	25 to 325	25	MA-34502-28		
600 (20)	50 to 500	50	MA-34502-29	36	
800 (27)	50 to 750	50	MA-34502-30	24	
1000 (32)	50 to 1000	50	MA-34502-31	24	
2000 (64)	200 to 2000	100	MA-34502-33	8	
3000 (96)	250 to 2500	125	MA-34502-34	6	
4000 (128)	500 to 3500	250	MA-34502-35	6	
Starter set contains one each of 50 mL, 100 mL, 250 mL, 600 mL, 1000 mL			MA-34502-90	5	

Capacity mL (oz)	Graduation range (mL)	Graduation interval (mL)	Catalog number	Qty/ pk	Price/ pk
10 (1/8)	—	10	MA-34502-20	12	
20 (2/8)	5 to 20	5	MA-34502-36		
25 (5/8)	5 to 25	5	MA-34502-37		
30 (1)	10 to 30	5	MA-34502-38		
50 (1 3/4)	10 to 50	10	MA-34502-39	12	
100 (3)	20 to 100	10	MA-34502-40		
150 (5)	25 to 150	12.5	MA-34502-41		
200 (6)	50 to 200	25	MA-34502-42		
250 (8)	50 to 250	25	MA-34502-43	8	
300 (10)	50 to 300	25	MA-34502-44		
400 (13)	100 to 400	50	MA-34502-45		
500 (16)	100 to 500	50	MA-34502-46		
600 (20)	100 to 600	50	MA-34502-47	6	
800 (27)	200 to 800	100	MA-34502-48		
1000 (32)	200 to 1000	100	MA-34502-49		
1500 (51)	300 to 1500	100	MA-34502-50		
2000 (64)	400 to 2000	200	MA-34502-51	2	
3000 (96)	500 to 2500	250	MA-34502-52	1	
4000 (128)	500 to 3500	250	MA-34502-53		
5000 (160)	500 to 4500	500	MA-34502-54		

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



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

†The 10-mL beaker does not have graduations.

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

Recessed covers for easy storage



Optional covers sold separately

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10% off on 6 to 29 packs or cases

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Capacity L (qt)	Qty/ pk	Beakers		Optional covers	
		Catalog number	Price/pk	Catalog number	Price/pk
1.2 (1¼)	1	MA-07206-10		MA-07207-10	
1.9 (2)	1	MA-07206-20		MA-07207-20	
3.1 (3¼)	1	MA-07206-30		MA-07207-30	
4.5 (4¾)	1	MA-07206-40		MA-07207-40	
5.8 (6⅓)	1	MA-07206-60		MA-07207-60	
7.6 (8)	1	MA-07206-80		MA-07207-80	
11.4 (12)	1	MA-07206-90		MA-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)



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Capacity, L (qt)	Catalog number	Qty/pk	Price/pk
0.3 (⅓)	MA-07250-00	1	
1 (1⅓)	MA-07251-00		
1.5 (1½)	MA-07252-00		
2.6 (2¾)	MA-07253-00	1	
4 (4¼)	MA-07254-00		
7 (7¾)	MA-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

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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)	MA-07205-30	1	
250 (8.5)	MA-07205-40	1	
600 (20.3)	MA-07205-50	1	
1200 (40.6)	MA-07205-60	1	
2000 (67.6)	MA-07205-70	1	
3000 (101.4)	MA-07205-80	1	
4000 (135.3)	MA-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—withstanding temperatures up to 650°F (182°C)



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

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

No more struggling to pour

- Attached handle lets you grip beaker easily

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



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

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.



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

[MA-53200-12](#) BOD bottle stopper, acrylic robotic-style. Pack of 25

[MA-53200-14](#) BOD overcap prevents evaporation. Pack of 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®
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Capacity	Stopper type	Catalog number	Qty/cs	Price/cs
300 mL	Glass pennyhead	MA-53200-19	24	

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"	MA-53200-21	
	12 x 300-mL bottles	13" x 8" x 10"	MA-53200-22	
BOD bottle storage rack, autoclavable	12 x 300-mL bottles	12½" x 7¼" x 9¼"	MA-53200-23	

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

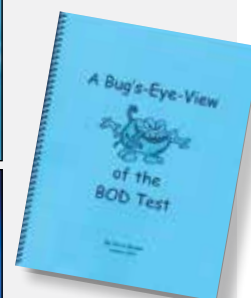
Capacity mL (oz)	Stopper type	Number sequence	Catalog number	Qty/cs	Price/cs
60 (2)	Glass pennyhead	Unnumbered	MA-53200-18	36	
300 (10)	Glass robotic	Unnumbered	MA-03660-15	24	
		1–24	MA-03660-16		
		25–48	MA-03660-17		
		49–72	MA-03660-18		
		73–96	MA-03660-19		

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	MA-53200-12	pk of 25
BOD overcap	MA-53200-14	pk of 50
A Bug's-Eye-View of the BOD Test	MA-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.**



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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	MA-06045-18	12		MA-06045-23	72	
125 (4)	28 mm	MA-06045-24	12		MA-06045-25	72	
250 (8)	28 mm	MA-06045-26	12		MA-06045-27	72	
500 (16)	28 mm	MA-06045-28	12		MA-06045-29	48	
1000 (32)	28 mm	MA-06045-44	6		MA-06045-31	24	
2000 (64)	45 mm	MA-06045-46	1		MA-06045-33	6	
LDPE							
60 (2)	22 mm	MA-06045-02	12		MA-06045-03	72	
125 (4)	28 mm	MA-06045-04	12		MA-06045-05	72	
250 (8)	28 mm	MA-06045-06	12		MA-06045-07	72	
500 (16)	28 mm	MA-06045-08	12		MA-06045-09	48	
1000 (32)	28 mm	MA-06045-14	6		MA-06045-11	6	
PP							
30 (1)	22 mm	MA-06045-48	12		MA-06045-41	72	
60 (2)	22 mm	MA-06045-56	12		MA-06045-43	72	
125 (4)	28 mm	MA-06045-58	12		MA-06045-45	72	
250 (8)	28 mm	MA-06045-62	12		MA-06045-47	72	
500 (16)	28 mm	MA-06045-66	12		MA-06045-49	48	
1000 (32)	28 mm	MA-06045-68	6		MA-06045-51	24	
2000 (64)	45 mm	MA-06045-74	1		MA-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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Capacity mL (oz)	Cap size	Catalog number	Qty/pk	Price/pk
30 (1)	28 mm	MA-06043-10	12	
60 (2)	28 mm	MA-06043-20		
125 (4)	38 mm	MA-06043-30		
250 (8)	43 mm	MA-06043-40	12	
500 (16)	53 mm	MA-06043-50		
1000 (32)	63 mm	MA-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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Capacity mL (oz)	Cap size	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/cs	Price/cs
30 (1)	20 mm	MA-06035-07	12		MA-06035-09	72	
60 (2)	20 mm	MA-06035-11	12		MA-06035-13	72	
125 (4)	24 mm	MA-06035-15	12		MA-06035-17	72	
250 (8)	24 mm	MA-06035-19	12		MA-06035-21	72	
500 (16)	28 mm	MA-06035-23	6		MA-06035-25	48	
1000 (32)	38-430	MA-06035-27	6		MA-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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Capacity mL (oz)	Cap size	Qty/pk	Catalog number	Price/pk
30 (1)	28 mm	12	MA-06047-10	
60 (2)	28 mm		MA-06047-20	
125 (4)	38 mm		MA-06047-30	
250 (8)	43 mm	12	MA-06047-40	
500 (16)	53 mm		MA-06047-50	
1000 (32)	63 mm	6	MA-06047-60	
1500 (50)	63 mm		MA-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	MA-09964-00	
Blue		MA-09964-10	
Green		MA-09964-15	
Red		MA-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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Capacity mL (oz)	Description	Catalog number	Qty/pk	Price/pk
118 (4)	Sterile, no tab	MA-06049-40	100	
118 (4)	Nonsterile with white tab	MA-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
- Easy mailing with optional mailing tube (sold separately)



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

[MA-06049-30](#) Mailing tubes for bottle 06049-01. Carton of 240

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

Rugged design fits all your needs

- Leakproof, PP enclosure

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Capacity mL (oz)	Cap size	Catalog number	Qty/pk	Price/pk	Catalog number	Qty/cs	Price/cs
30 (1)	28 mm	MA-06035-31			MA-06035-33		
60 (2)	28 mm	MA-06035-35	12		MA-06035-37	72	
125 (4)	38 mm	MA-06035-39			MA-06035-41		
250 (8)	43 mm	MA-06035-43	12		MA-06035-45	72	
500 (16)	53 mm	MA-06035-47	6		MA-06035-49	48	
1000 (32)	63 mm	MA-06035-51	6		MA-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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Capacity, mL (oz)	Cap size	Catalog number	Qty/pk	Price/pk
250 (8)		MA-06257-05	6	
1000 (32)	53B	MA-06257-10	6	
2000 (64)		MA-06257-20	2	
4000 (128)	83B	MA-06257-00	1	
5000 (160)		MA-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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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	MA-34514-20	10	
50 (1½)	20 to 50	GL32	16.5 mm	MA-34514-21	10	
100 (3)	40 to 80	GL45	29 mm	MA-34514-22	10	
250 (8)	50 to 200	GL45	29 mm	MA-34514-23	10	
500 (16)	100 to 400	GL45	29 mm	MA-34514-24	10	
1000 (32)	100 to 900	GL45	29 mm	MA-34514-25	10	
2000 (64)	400 to 1800	GL45	29 mm	MA-34514-26	4	
5000 (160)	500 to 4500	GL45	29 mm	MA-34514-28	1	
10,000 (320)	2000 to 9000	GL45	29 mm	MA-34514-30	1	

Accessories

- [MA-34514-50](#) Polypropylene cap, orange, GL45. Cs of 20
- [MA-34514-53](#) Polypropylene cap, green, GL45. Cs of 20
- [MA-34514-54](#) Polypropylene cap, gray membrane, GL45. Cs of 10
- [MA-34514-55](#) Polypropylene cap, red high-temp. GL45. Cs of 10
- [MA-34514-60](#) Pouring ring, clear, low temperature. Cs of 50
- [MA-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.



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

DON'T RISK IT!

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



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

[†]Graduated in mL and oz.

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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10% off on 6 to 29 packs or cases

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



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

†Not recommended for long-term storage of toluene.

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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10% off on 6 to 29 packs or cases

Capacity mL (oz)	Cap size	Catalog number	Qty/ pk	Price/ pk
125 (4)	24 mm	MA-62304-20	6	
250 (8)	24 mm	MA-62304-30		
500 (16)	28 mm	MA-62304-40		
1000 (32)	38–430	MA-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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10% off on 6 to 29 packs or cases



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

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



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10% off on 6 to 29 packs or cases

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

[MA-63000-04](#) Replacement caps, PP, 24 mm. Pack of 12

[MA-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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100,000 products
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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 1¼"	7.6 x 3.2 cm	Polyester	9	22.9	MA-84550-80	12	
	Radial tip, large	6" x 3⅝"	15.2 x 7.9 cm		10	25.4	MA-84550-81	12	
	Radial tip, XL	6" x 3⅝"	15.2 x 7.9 cm		13	33	MA-84550-82	6	
B	Contoured, large	10" x 3⅝"	25.4 x 7.9 cm	Polyester	7	17.8	MA-84550-83	6	
C	Fan tip, small	6" x 1½"	15.2 x 3.8 cm	Natural	6	15.2	MA-84550-86	12	
D	Tufted end, small	4¼" x 1½"	11.4 x 3.8 cm	Natural	7½	19.1	MA-84550-87	12	
	Tufted end, XL	4¼" x 1¾"	11.4 x 4.5 cm		19½	49.5	MA-84550-88	12	
E	Angled head, small	3" x 1"	7.6 x 2.5 cm	Polyester	13	33	MA-84550-76	1	
	Angled head, large	4" x 1½"	0.2 x 3.8 cm	Natural	12	30.5	MA-84550-89	12	
	Volumetric, large	4" x 1½"	10.2 x 3.8 cm	Nylon	10	25.4	MA-84550-90	12	
Bottle/cylinder brushes									
F	Radial tip, white bristles	6½" x 3⅜" dia	16.5 x 7.9 cm dia	Nylon	9	22.9	MA-84550-00	1	
	Radial tip, X-shaped yellow bristles						MA-84550-03	1	
	Radial tip, X-shaped green bristles						MA-84550-04	1	
G	Radial tip, white bristles			Polyester	9	22.9	MA-84550-70	1	
	Radial tip, red bristles						MA-84550-72	1	
	Radial tip, blue bristles						MA-84550-74	1	
H	Radial tip, small	4½" x 1¼"	11.4 x 4.5 cm	Natural	7	17.8	MA-84550-15	12	
	Radial tip, medium	5" x 2"	12.7 x 5.1 cm		11	27.9	MA-84550-16	12	
	Radial tip, large	6" x 2⅝"	15.2 x 6.1 cm	Nylon	14	35.6	MA-84550-17	12	
	Radial tip, XL				18	45.7	MA-84550-18	12	
	Radial tip, XXL				24	60.9	MA-84550-19	12	
Glassware brushes									
I	Foam-tipped	7" x 2"	17.8 x 5.1 cm	Polypropylene/foam	13	33	MA-84552-14	1	
		5" x 2"	12.7 x 5.1 cm		7	17.8	MA-84552-16	1	
J	Cylinder/Funnel brush	16" x 3⅜"	40.6 x 7.9 cm	Polyester	10½	26.7	MA-84550-71	12	
		24" x 3⅝"	60.9 x 7.9 cm		17½	44.5	MA-84550-73	12	
K	Swivel head brush	1¾" dia	3.2 cm	Natural	13	33	MA-84550-55	1	

Cole-Parmer® Class B Burettes

No more difficult readings

- White, permanent graduations for easy reading won't rub off
- Get reliable, accurate draining—noncontaminating PTFE stopcock with 2-mm straight bore
- Durable borosilicate glass



25000-55

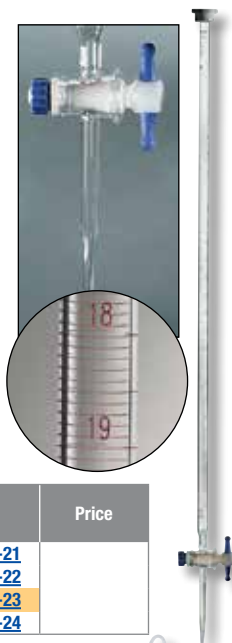
Capacity	Graduation interval	Tolerance	Catalog number	Price
10 mL	0.05 mL	±0.04 mL	MA-63100-34	
25 mL	0.1 mL	±0.1 mL	MA-63100-36	
50 mL	0.1 mL	±0.1 mL	MA-63100-38	
100 mL	0.2 mL	±0.2 mL	MA-63100-40	

MA-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 features 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	MA-34543-21	
25 mL	0.10 mL	±0.03 mL	MA-34543-22	
50 mL	0.10 mL	±0.05 mL	MA-34543-23	
100 mL	0.20 mL	±0.10 mL	MA-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	MA-07879-10	
15 mL	0.1 mL	500 mL	MA-07879-20	
25 mL	0.1 mL	1000 mL	MA-07879-30	
50 mL	0.1 mL	1000 mL	MA-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	MA-06209-10	
25 mL	0.1 mL	500 mL	MA-06209-20	
50 mL	0.1 mL	1000 mL	MA-06209-30	

MA-06703-00 Support stand with center rod; 30" (76 cm) L x 1/2" (1.3 cm) dia

MA-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.



ISO9001:2008 **CE**
CERTIFIED SUPPLIER

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)	MA-07910-51	
50 mL	±0.2% (±100 µL)	MA-07910-53	

MA-07878-53 Drying tube. Protects sensitive reagents from moisture or CO₂

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

Solid-Design Cable Ties, Nylon

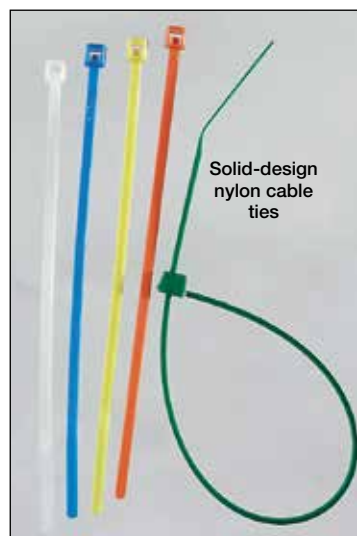
Won't corrode or stretch—made from injection-molded plastic

- 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.



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	MA-06830-66	100	
			MA-06830-52	1000	
			MA-06830-51†	1000	
4" (10.2 cm)	7/8" (2.2 cm)	Black	MA-06830-68	100	
4" (10.2 cm)	7/8" (2.2 cm)	Red	MA-06830-11	100	
			MA-06830-61	1000	
4" (10.2 cm)	7/8" (2.2 cm)	Blue	MA-06830-62	1000	
4" (10.2 cm)	7/8" (2.2 cm)	Green	MA-06830-63	1000	
4" (10.2 cm)	7/8" (2.2 cm)	Yellow	MA-06830-64	1000	
4" (10.2 cm)	7/8" (2.2 cm)	Orange	MA-06830-65	1000	
Intermediate, 40-lb tensile strength					
5½" (14.0 cm)	1¼" (3.2 cm)	White	MA-06830-54	1000	
5½" (14.0 cm)	1¼" (3.2 cm)	Black	MA-06830-78	100	
8" (20.3 cm)	2½" (5.4 cm)	White	MA-06830-30	1000	
8" (20.3 cm)	2½" (5.4 cm)	Black	MA-06830-89	100	
			MA-06830-88	1000	
8" (20.3 cm)	2½" (5.4 cm)	Red	MA-06830-31	1000	
8" (20.3 cm)	2½" (5.4 cm)	Blue	MA-06830-32	1000	
8" (20.3 cm)	2½" (5.4 cm)	Green	MA-06830-33	1000	
8" (20.3 cm)	2½" (5.4 cm)	Yellow	MA-06830-19	100	
8" (20.3 cm)	2½" (5.4 cm)	Orange	MA-06830-41	1000	



Solid-design nylon cable ties



06830-51 and -55 have a write-on identification tab



Length	Bundle diameter	Color	Catalog number	Qty/pk	Price/pk
Standard, 50-lb tensile strength					
7 1/2" (19.1 cm)	1 3/4" (4.4 cm)	White	MA-06830-43	100	
			MA-06830-56	1000	
			MA-06830-55 [†]	1000	
11" (27.9 cm)	3" (7.6 cm)	White	MA-06830-47	100	
			MA-06830-46	1000	
11" (27.9 cm)	3" (7.6 cm)	Black	MA-06830-49	100	
			MA-06830-48	1000	
15" (38.1 cm)	4" (10.2 cm)	White	MA-06830-58	100	
15" (38.1 cm)	4" (10.2 cm)	Black	MA-06830-29	100	
Heavy duty, 120-lb tensile strength					
14 1/2" (36.8 cm)	4" (10.2 cm)	White	MA-06830-36	50	
			MA-06830-91	100	
28" (71.1 cm)	8" (20.3 cm)	White	MA-06830-39	50	
Extra heavy duty, 175-lb tensile strength					
34" (86.4 cm)	10" (25.4 cm)	White	MA-06830-42	50	

[†]Ties 06830-51 and -55 have a textured, write-on identification tab.

Heat-Resistant Cable Ties, PP

Wide operating temperature: -40°F to 239°F

Polypropylene (PP) cable ties resist a number of chemicals and are UV-resistant. Sold in packs of 1000.

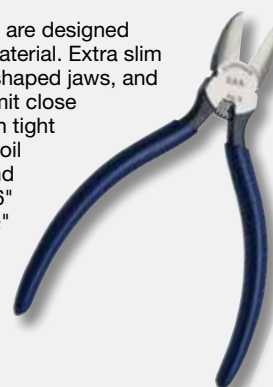


Length	Bundle dia	Tensile strength	Color	Catalog number	Price/pk of 1000
4" (10.2 cm)	3/4" (1.9 cm)	11 lb	Natural	MA-06830-85	
8" (20.3 cm)	1 1/4" (4.4 cm)	25 lb	Black	MA-06830-95	

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	MA-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



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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	MA-06031-32	1	
15 (4)	83B	MA-06031-42		
20 (5)	83B	MA-06031-52		
25 (6½)	83B	MA-06031-62		
50 (13)	83B	MA-06031-72		
Wide-mouth carboys with shoulder handles				
10 (2½)	100 mm	MA-06056-22	1	
15 (4)	100 mm	MA-06056-32		
20 (5)	100 mm	MA-06056-52		
Carboy with spigot and shoulder handles				
4 (1)	38-430	MA-06065-10	1	
10 (2½)	83B	MA-06065-22		
20 (5)	83B	MA-06065-32		
25 (6½)	83B	MA-06065-52		
50 (13)	83B	MA-06065-62		
Carboys with ½" OD tubulation and shoulder handles				
20 (5¼)	83B	MA-06080-52	1	

Accessories

- [MA-06258-30](#) Replacement cap, PP, 83B. Pack of 2
- [MA-63000-16](#) Replacement cap, PP, 100 mm. Pack of 12
- [MA-63000-18](#) Replacement cap, PP, 38-430. Pack of 12
- [MA-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	MA-62507-00	1	
10 (2½)	90 mm	MA-62507-10	1	
20 (5¼)	90 mm	MA-62507-20	1	
Heavy-duty carboys with shoulder handle and spigot				
5 (1¼)	45 mm	MA-62507-05	1	
10 (2½)	90 mm	MA-62507-15	1	
20 (5¼)	90 mm	MA-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	MA-06063-12	1	
20 (5)	83B	MA-06063-22		
50 (13)	83B	MA-06063-32		
FDA-compliant carboys with spigot, USP Class VI				
10 (2½)	83B	MA-06064-50	1	
20 (5)	83B	MA-06064-60		
50 (13)	83B	MA-06064-70		

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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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
10 (2½)	63 mm	MA-06031-80	1	
20 (5)		MA-06031-82		
10 (2½)	63 mm	MA-06031-84	4	
20 (5)		MA-06031-86		

[MA-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 5/8" ID tubing, come with adapters for 1/4" to 1/2" ID tubing, and feature an integrally molded threaded boss. Aspirator carboys feature integral tubulation for 1/2" 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	MA-06032-20	1	
20 (5)	100 mm	MA-06032-50	1	
Rectangular carboys with spigot				
9 (2)	100 mm	MA-06066-20	1	
20 (5)	100 mm	MA-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	MA-06100-10	
4 (1)			MA-06100-20	
10 (2½)	38 mm	10	MA-06100-30	
19 (5)			MA-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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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
6 (1½)	53B	MA-06069-10	1	
10 (2½)		MA-06069-20		
13 (3½)		MA-06069-25		
20 (5)		MA-06069-30		

[MA-63000-20](#) Replacement cap; PP, 53B. Pack of 12

CELLTREAT® Tissue Culture Plates

Choice of well shapes to fit your needs

- Multiwell plates feature alphanumeric markings and raised cell rims
- Treated hydrophilic surface optimizes cell growth
- Use the deep-well plates for growth of bacterial cultures



NEW

Multiwell Plates with Treated Surface, PS

No. of wells	Cell growth area	Well shape	Sterile	Lid	Catalog number	Qty/cs	Price/cs
6	9.60 cm ²	Flat	Yes	Yes	MA-01959-01	50*	
12	3.85 cm ²	Flat	Yes	Yes	MA-01959-03		
24	1.93 cm ²	Flat	Yes	Yes	MA-01959-05		
48	0.84 cm ²	Flat	Yes	Yes	MA-01959-07		
96	0.33 cm ²	Flat	Yes	Yes	MA-01959-11	100†	
		Flat	Yes	Yes	MA-01959-13		
		Round	Yes	Yes	MA-01959-09	100‡	

*Individually packaged. †Not individually packaged. 5/sleeve.

‡Individually packaged. 50/sleeve.

Multiwell Plates with Untreated Surface, PS

No. of wells	Working volume	Well shape	Sterile	Lid	Catalog number	Qty/cs	Price/cs
6	2 to 8 mL	Flat	Yes	Yes	MA-01959-29	100‡	
12	2 to 4 mL	Flat	Yes	Yes	MA-01931-13	100‡	
24	0.5 to 1.5 mL	Flat	Yes	Yes	MA-01931-15	100‡	
48	0.3 to 1 mL	Flat	Yes	Yes	MA-01959-15	100‡	
96	50 to 300 µL	Round	Yes	Yes	MA-01959-21	100‡	
				No	MA-01959-23	100‡	
		Flat		Yes	MA-01959-27	100‡	
				No	MA-01959-25	100‡	

*Individually packaged. 50/sleeve.

Deep-Well Storage Plates, PP

No. of wells	Working volume	Well shape	Sterile	Lid	Catalog number	Qty/cs	Price/cs
96	1.1 mL	V bottom	No	No	MA-01959-17	25	
	2.0 mL	Pyramid bottom			MA-01959-19		

CELLTREAT® Treated Petri Dishes, PS

Optically clear for improved viewing

- Consistent flatness allows for even media distribution
- Manufactured from virgin polystyrene
- Save time—dishes sterilized by gamma irradiation
- Hydrophilic surface promotes cell attachment and growth



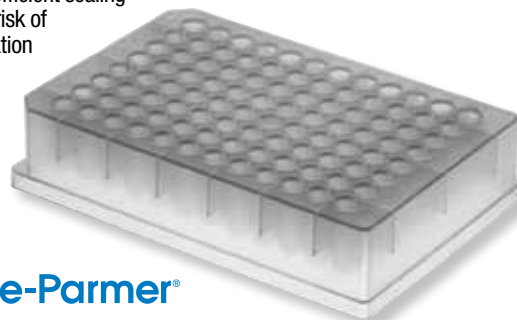
STERILE

Dia x H (mm)	Working volume	Growth area	Catalog number	Qty/cs	Price/cs
60 x 15	7 to 8 mL	21 cm ²	MA-01932-18	500	
100 x 15	15 to 16 mL	55 cm ²	MA-01932-25	500	
150 x 20	25 to 28 mL	143 cm ²	MA-01932-15	100	

Cole-Parmer® 96-Well Deep Well Plates

Meet SBS guidelines for robotic handling

- Certified free of RNase, DNase, endotoxins, and human DNA
- Autoclavable at 121°C for 20 minutes (polypropylene plates only)
- Alphanumeric pattern for simple sample identification
- Raised rims for efficient sealing to minimize the risk of cross-contamination
- Both 1.2- and 2.2-mL plates are stackable and compatible with pipetting



Cole-Parmer®

Well volume	Material	Well shape	Sterile	Catalog number	Qty/cs	Price/cs
0.5 mL	PP	Round	No	MA-67104-56	56	
			Yes	MA-67104-57	56	
1.2 mL	PP	Round	No	MA-67104-61	32	
			Yes	MA-67104-62	32	
		Round, raised rim	No	MA-67104-65	32	
			Yes	MA-67104-66	32	
	PS	Round	No	MA-67104-58	32	
			Yes	MA-67104-59	32	
		Round, raised rim	No	MA-67104-63	32	
			Yes	MA-67104-64	32	
2.2 mL	PP	Square, round bottom	No	MA-67104-67	32	
			Yes	MA-67104-68	32	

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

Cole-Parmer® Sealing Mats

Reduce evaporation losses

- Prevent spillage and contamination between wells
- Easily pierceable with pipette tips
- Free of RNase, DNase, and endotoxins
- Suitable for 96-well deep well plates

NEW



Cole-Parmer®

Description	Material	Catalog number	Qty/pk	Price/pk
For 96-well deep well plates, 0.5- and 1.2-mL well volumes	TPE	MA-67104-69	50	
For 96-well deep well plates, 2.2-mL well volume	EVA	MA-67104-70	50	

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).



Multiwell Plates with Treated Surface

Number of wells	Cell growth area	Well shape	Lid	Qty/sleeve	Catalog number	Qty/cs	Price/cs
6	9.60 cm ²	Flat	Yes	50	MA-01959-40	100	
12	3.85 cm ²	Flat	Yes	50	MA-01959-42	100	
24	1.93 cm ²	Flat	Yes	50	MA-01959-44	100	
48	0.84 cm ²	Flat	Yes	50	MA-01959-46	100	
96	0.33 cm ²	Flat	Yes	50	MA-01959-48	100	

Multiwell Plates with Untreated Surface

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



01959-39



01959-40

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.



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	MA-06061-38	6	
2000	600 to 2000	100	11"	53 mm	MA-06061-39	6	



06061-38

06061-39

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 MgSO₄ (anhydrous), 1 g NaAc (anhydrous)				
AOAC 2007.01	Without tubes	50	MA-06478-96	
	With tubes	50	MA-06478-95	
	With tubes and beads	50	MA-06478-97	
6 g MgSO₄ (anhydrous), 1.5 g NaAc (anhydrous)				
AOAC 2007.01	Without tubes	50	MA-06478-89	
	With tubes	50	MA-06478-88	
	With tubes and beads	50	MA-06478-90	
6 g MgSO₄ (anhydrous), 1.5 g NaAc 3H₂O				
AOAC 2007.01	Without tubes	50	MA-06478-83	
	With tubes	50	MA-06478-82	
	With tubes and beads	50	MA-06478-84	
4 g MgSO₄ (anhydrous), 1 g NaCl, 0.5 g disodium citrate sesquihydrate (TSCD), 1 g sodium citrate (DHS)				
EN 15662	Without tubes	50	MA-06479-01	
	With tubes	50	MA-06479-00	
	With tubes and beads	50	MA-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	MA-06478-31	
	20 µm	1	MA-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

Methodology	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	MA-06479-04	
	1.2 g MgSO ₄ (anhydrous) & 400 mg PSA	15 mL	50	MA-06479-07	
EN 15662	150 mg MgSO ₄ (anhydrous) & 25 mg PSA	2 mL	100	MA-06479-05	
	900 mg MgSO ₄ (anhydrous) & 150 mg PSA	15 mL	50	MA-06479-06	
Removal of fats and proteins					
AOAC 2007.01	150 mg MgSO ₄ (anhydrous), 50 mg PSA, & 50 mg C18	2 mL	100	MA-06478-65	
	1.2 g MgSO ₄ (anhydrous), 400 mg PSA, & 400 mg C18	15 mL	50	MA-06478-68	
EN 15662	150 mg MgSO ₄ (anhydrous), 25 mg PSA, & 25 mg C18	2 mL	100	MA-06478-66	
	900 mg MgSO ₄ (anhydrous), 150 mg PSA, & 150 mg C18	15 mL	50	MA-06478-77	
NYT 1380-2007	300 mg MgSO ₄ (anhydrous), 100 mg PSA, & 100 mg C18	15 mL	50	MA-06478-67	
Removal of pigments					
AOAC 2007.01	150 mg MgSO ₄ (anhydrous), 50 mg PSA, & 50 mg PestiCarb	2 mL	100	MA-06479-09	
	1.2 g MgSO ₄ (anhydrous), 400 mg PSA, & 400 mg PestiCarb	15 mL	50	MA-06479-14	
EN 15662	150 mg MgSO ₄ (anhydrous), 25 mg PSA, & 2.5 mg PestiCarb	2 mL	100	MA-06479-10	
	150 mg MgSO ₄ (anhydrous), 25 mg PSA, & 7.5 mg PestiCarb	2 mL	100	MA-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	MA-06478-78	
	1.2 g MgSO ₄ (anhydrous), 400 mg PSA, 400 mg C18, & 400 mg PestiCarb	15 mL	50	MA-06478-80	

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

NEW

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 1/4-28 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	MA-11942-94		MA-11942-93		MA-11942-95	
	250 mm		MA-11943-00		MA-11942-99		MA-11943-01	
10 mm	250 mm	600 psi	MA-11943-15		MA-11943-14		MA-11943-16	
	500 mm		MA-11943-24		MA-11943-23		MA-11943-25	
15 mm	250 mm	300 psi	MA-11943-33		MA-11943-32		MA-11943-34	
	400 mm		MA-11943-39		MA-11943-38		MA-11943-40	
25 mm	250 mm	150 psi	MA-11943-51		MA-11943-50		MA-11943-52	
	500 mm		MA-11943-60		MA-11943-59		MA-11943-61	
35 mm	250 mm	150 psi	MA-11943-66		MA-11943-65		MA-11943-67	
	330 mm		MA-11943-69		MA-11943-68		MA-11943-70	
50 mm	250 mm	75 psi	MA-11943-75		MA-11943-74		MA-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	MA-11943-90		MA-11943-89		MA-11943-91	
	400 mm		MA-11944-02		MA-11943-01		MA-11944-03	
10 mm	150 mm	600 psi	MA-11944-08		MA-11944-07		MA-11944-09	
15 mm	250 mm	300 psi	MA-11944-29		MA-11944-28		MA-11944-30	
25 mm	250 mm	150 psi	MA-11944-47		MA-11944-46		MA-11944-48	
35 mm	250 mm	150 psi	MA-11944-62		MA-11944-61		MA-11944-63	
50 mm	250 mm	75 psi	MA-11944-71		MA-11944-70		MA-11944-72	

Accessories

MA-11942-06 Connection tubing assembly for EZ columns. Comes with two (2 m and 0.5 m L) 1/16" OD PTFE tubing with 1/4-28 UNF PP fitting at one end plus a Click-N-Seal® 10-32 PEEK conical fitting

MA-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 1/4-28 UNF ETFE fitting at one end plus a Click-N-Seal 10-32 PEEK conical fitting

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

BabyBio™ Prepacked Columns

Ready to use for quick and easy purification of proteins

- Reliable, reproducible, and efficient

Columns feature biocompatible polypropylene body and polyethylene top and bottom filters. Each column comes with a plug in the inlet and a snap-off end at the outlet. Easily connect to a syringe, pump, or chromatography system using finger-tight fittings (coned 10-32) for 1/16" OD tubing.

NEW

BabyBio™ Prepacked Ion Exchange Chromatography (IEC) Columns

- Rapid method screening and separation
- Agarose-based resin provides optimal selectivity, resolution, and purity

BabyBio IEC columns come prepacked with WorkBeads™ media, agarose-based chromatographic resins, which provide a tight size distribution and exceptional mechanical stability. Beads in columns maintain high capacity over broad pH ranges. Connect up to five columns in series to process larger sample volumes.

Dynamic binding capacity	pH stability	Qty	1 mL Columns		5 mL Columns	
			Catalog number	Price	Catalog number	Price
Strong anion exchange/Quaternary amine						
50 mg BSA/mL medium	3 to 12 pH	1	MA-11947-46		MA-11947-50	
		5	MA-11947-48		MA-11947-52	
Weak anion exchange/Diethylaminoethyl						
40 mg BSA/mL medium	3 to 9 pH	1	MA-11947-54		MA-11947-58	
		5	MA-11947-56		MA-11947-60	
Strong cation exchange/Sulfonate						
130 mg BSA/mL medium	3 to 13 pH	1	MA-11947-62		MA-11947-66	
		5	MA-11947-64		MA-11947-68	

BabyBio™ Prepacked Affinity Chromatography Columns

- Separate proteins using reverse interaction between the target protein and ligand of bead
- High binding capacity and purity in one step

Columns with WorkBeads™ activated media have a bromohydrin group that is reactive towards primary amines, thiol, or hydroxyl residues. With an exclusion limit of 1M kDa, they are ideal for separating small molecules and peptides.

Columns with QC-pretested affinity media are ideal for purification of monoclonal and polyclonal antibodies. The specificity of the recombinant Protein A for the Fc-region of IgG provides excellent purification.

Performance characteristics	pH stability	Qty	1 mL Columns		5 mL Columns	
			Catalog number	Price	Catalog number	Price
Activated media/small molecules and peptides						
Exclusion limit 1M kDa (globular proteins)	2 to 13 pH (after coupling)	1	MA-11947-80		MA-11947-84	
		5	MA-11947-82		MA-11947-86	
Affinity media/antibodies (IgG), bound via the Fc-region						
Dynamic binding capacity >40 mg human IgG/mL medium	3 to 10 pH (short term)	1	MA-11947-88		MA-11947-92	
		5	MA-11947-90		MA-11947-94	

BabyBio™ Prepacked Desalting and Buffer Exchange Columns

- Rapid and efficient desalting and buffer exchange
- Easy and convenient group separation of high and low molecular weight substances

Use size exclusion method to quickly and efficiently separate high molecular weight substances such as proteins and biomolecules from salts and other small molecules. Buffer exchange or desalting of a sample can be used to prepare for mass spectroscopy analysis or lyophilization, and after certain procedures such as ion exchange chromatography. Useful alternative to dialysis for larger or degradable samples. The molecular weight cutoff is 5000. Recommended flow rate is 1 mL/min for 1-mL column, 5 mL/min for 5-mL column. Stable over pH 2 to 12 working range.

Target substance	Qty	1 mL Columns		5 mL Columns	
		Catalog number	Price	Catalog number	Price
Proteins and other biomolecules of similar size (MWCO is 5000)	1	MA-11947-70		MA-11947-74	
	5	MA-11947-72		MA-11947-76	
	100	MA-11947-79		MA-11947-78	



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

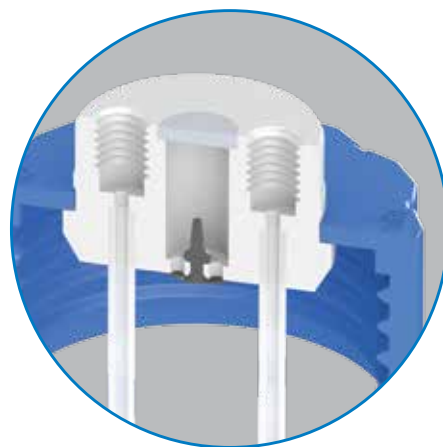


Solvent Delivery

- 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	MA-12018-08	
		EPDM	MA-12018-06	
	(4) ¼"-28 UNF(F)	FFKM	MA-12018-09	
		EPDM	MA-12018-07	



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 ½" NPT(F), and 1 port x ½" NPT(F)], fittings, plugs for unused ports, tubing with connections, and exhaust filter with breakthrough indicator.

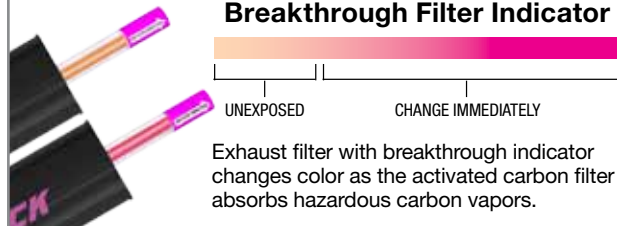
Cap size	Manifold material	Catalog number	Price
38-430	PTFE	MA-12018-63	
Wako 38 mm	PP	MA-12018-68	
Wako 38 mm	PTFE	MA-12018-69	
GL45	PTFE	MA-12018-75	
DIN 45	PP	MA-12018-80	

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	MA-12020-69	
	10 ports, PTFE	Quick-disconnect, SS	MA-12020-70	



Breakthrough Filter Indicator



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

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

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

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)	MA-98720-20	100		MA-98720-25	25	
2 to 5 mL	Rounded			MA-98720-21	100		MA-98720-26	25	
10 to 20 mL	Rounded	104 to 482°F (40 to 250°C)	290 psi (20 bar)	MA-98720-22	50		MA-98720-27	5	

[MA-98720-23](#) Crimp caps; silicone/PTFE septum, 20 mm. Pack of 1000

[MA-98720-24](#) Crimp caps; silicone/PTFE septum, 20 mm. Pack of 100



Kinesis
CP

Kinesis KX Syringe Filters

Maximize product recovery, reliability, and reproducibility

- Solvent-resistant polypropylene (PP) filter housing with nominal extractable
- Leak-free Luer-Lok® and Luer-slip connections for easy, quick and tight connections to tubing, syringes, or needles
- Color-coded filters for easy organization
- Resealable storage container prevent contamination during multiple opening and closings
- Syringe filters with prefilter minimize unwanted buildup—ideal for high viscosity or high particulate samples



Membrane material	Diameter (mm)	Pore size (µm)	Qty/pk	Catalog number	Price/pk
Kinesis KX nonsterile syringe filters					
Hydrophilic PTFE	4	0.22	100	MA-12918-59	
		0.45		MA-12918-60	
	13	0.22	100	MA-12916-80	
		0.45		MA-12916-83	
	25	0.22	100	MA-12916-86	
		0.45		MA-12916-89	
	30	0.22	100	MA-12916-92	
		0.45		MA-12916-95	
Kinesis KX sterile syringe filters					
PTFE	13	0.22	48	MA-12918-32	
		0.45		MA-12918-33	
	25	0.22	50	MA-12918-34	
		0.45		MA-12918-35	
Kinesis KX nonsterile syringe filters with prefilter					
Hydrophilic PTFE	13	0.22	100	MA-12916-82	
		0.45		MA-12916-85	
	25	0.22	100	MA-12916-88	
		0.45		MA-12916-91	
	30	0.22	100	MA-12916-94	
		0.45		MA-12916-97	

Extensive range of filter membranes available—find them all at ColeParmer.com

Cellulose Acetate (CA) Filters feature hydrophilic membranes. These low protein binding membranes are ideal for aqueous protein solutions. The filters are nitrate-free, making them suitable for groundwater filtration.

Glass Fiber Filters have a broad chemical compatibility and are ideal for high output pre-filtration of particulate-laden and viscous samples. Use to eliminate particulate interfering with UV/Vis spectrophotometric analysis.

Mixed Cellulose Ester (MCE) Filters are hydrophilic with a very low protein binding. Filters have high porosity and fast flow rate—excellent for aqueous solutions, tissue culture, and sensitive biological samples.

Nylon Filters are hydrophilic with strong mechanical stability and excellent chemical compatibility. Use filters with aqueous and alcoholic solutions and most HPLC solvents. Filters are medium protein binding.

Polyether Sulfone (PES) Filters are hydrophilic and low protein binding. Filters offer fast flow rate and high throughput. Use filters with aqueous based samples.

Polyester (PET) Filters are hydrophilic and resistant to commonly used solvents and chemicals except for strong bases.

Polypropylene (PP) Filters are hydrophilic and low protein binding. Excellent for general filtration of biological samples, solvents, deionized water, and reducing the biological load. Filters are compatible with aqueous and most solvent based samples.

PTFE Filters are hydrophilic and characterized by very good chemical resistance. They are compatible with many non-aqueous and organic solvent mixtures. Filters are high protein binding.

PVDF Filters offer broad chemical compatibility and low UV absorbing extractable. Filters are resistant to many solvents and show low protein binding. Ideal for general filtration of biological samples.

Regenerated Cellulose Filters are hydrophilic and resistant to most solvents and aqueous solutions. Use filters for particle removal from solvents and mobile phase filtration for HPLC.

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)	MA-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)	MA-08057-10	
6" x 6" (15.2 x 15.2 cm)	9¾" (24.8 cm)	3" (7.6 cm)	132 lb (60 kg)	MA-08057-20	
8" x 8" (20.3 x 20.3 cm)	13" (33.0 cm)	3½" (8.9 cm)	176 lb (80 kg)	MA-08057-30	
10" x 10" (25.4 x 25.4 cm)	13" (33.0 cm)	3½" (8.9 cm)	198 lb (90 kg)	MA-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)	MA-08057-12	
4" x 4" (10.2 x 10.2 cm)	5" (12.7 cm)	2½" (6.4 cm)	30 lb (13.6 kg)	MA-08057-14	
6" x 6" (15.2 x 15.2 cm)	9¾" (24.8 cm)	3" (7.6 cm)	35 lb (15.8 kg)	MA-08057-16	
8" x 8" (20.3 x 20.3 cm)	13" (33.0 cm)	3½" (8.9 cm)	55 lb (25.0 kg)	MA-08057-18	
10" x 10" (25.4 x 25.4 cm)	13" (33.0 cm)	3½" (8.9 cm)	80 lb (36.3 kg)	MA-08057-22	
12" x 12" (30.5 x 30.5 cm)	19½" (49.5 cm)	4" (10.2 cm)	150 lb (68.0 kg)	MA-08057-24	
16" x 16" (40.6 x 40.6 cm)	19½" (49.5 cm)	4" (10.2 cm)	180 lb (81.6 kg)	MA-08057-26	

[MA-08057-50 Ratchet tool](#) adds extra leverage to models 08057-24 and -26

[MA-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 alkalis 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	MA-06839-90	
12	Violet		MA-06839-95	
14	Yellow		MA-06840-05	
19	Blue	12	MA-06840-10	
24	Green		MA-06840-15	
29	Red		MA-06840-20	
34	Orange	12	MA-06840-25	
40	Yellow		MA-06840-30	
45	Brown		MA-06840-35	

[MA-06840-00 Standard taper clip assortment pack.](#)

Six each of sizes 14, 19, 24, and 29 (24 total)

[MA-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—withstanding temperatures to 932°F (500°C).



Joint size no.	Qty/pk	Cat. no.	Price/pk
14	6	MA-06836-05	
19		MA-06836-10	
24		MA-06836-15	
29		MA-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 alkalis and dilute acids (not resistant to halogen gases or concentrated acids).



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

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Technical Resources to help you choose

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



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)	MA-18100-05	—	MA-18100-04	12	—
					1 gal. (4 L)	—	—	MA-18100-11	4	—
					5 gal. (18.9 L)	—	—	MA-18100-20	1	—
					55-gal. drum (208 L)	MA-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)	MA-18101-30	—	MA-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)	MA-18102-00	—	MA-18102-10	12	—
					5.3 gal. (20 L)	MA-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)	MA-18103-00	—	MA-18103-10	12	—
					5.3 gal. (20 L)	MA-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)	MA-18104-00	—	MA-18104-01	12	—
					5.3 gal. (20 L)	MA-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	MA-86306-03	—
Towelettes, 10½" x 10½" (26.7 x 26.7 cm)	Canister of 60	12	MA-86306-05	—
Spray bottle	1 quart bottle	12	MA-86306-13	—
Refill bottle	1 gallon bottle	4	MA-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)	MA-86115-02	—	MA-86115-00	12	—
0.26 gal. (1 L)	MA-86115-06	—	MA-86115-04	12	—
1.32 gal. (5 L)	MA-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)	MA-86115-40	—	MA-86115-38	6	—
1 gal. (3.7 L)	MA-86115-44	—	MA-86115-42	4	—



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®

ISO9001:2008
CERTIFIED SUPPLIER



NEW



Description		EcoTestr (CTS) Con/TDS/Salinity
Catalog number		MA-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 EcoTestr™ Conductivity Pocket Testers

Designed to be 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

NEW

35634-08

OAKTON®



Model		EC1	TDS1	Salt1
Catalog number		MA-35634-06	MA-35634-08	MA-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		
Power		Four AAA batteries (included), 400 hours of continuous use		
Price				

Oakton® CTSTestr™ 50 Pocket Testers

Get benchtop accuracy in the field

NEW

- 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®

ISO9001:2008
CERTIFIED SUPPLIER



Model		CTSTestr 50P (pin-style sensor)	CTSTestr 50C (cup-style sensor)
Catalog number		MA-35634-55	MA-35634-65
Range	Conductivity	0.0 to 200.0 µS, 200 to 2000 µS; 2.00 to 20.00 mS	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)	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	0.00 to 10.00 ppt
	Temperature	32 to 140°F (0 to 60°C)	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 CTSTestr™ 5 Pocket Tester

Save money by replacing sensor, not tester!

NEW

- 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		MA-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		



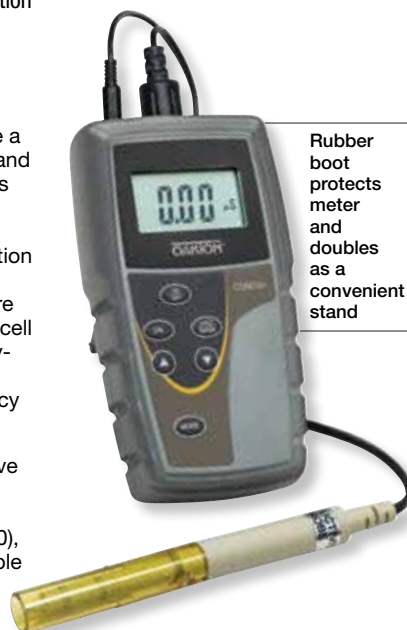
Oakton® CON 6+ and TDS 6+ Meter Kits

Easy, push-button calibration

- High accuracy at an affordable price, $\pm 1\%$ 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

Save time, save money!

Choose Precalibrated

Includes a data-rich, ISO 17025-compliant certificate!

Precalibrated by **INNOCAL**
INNOVATIVE CALIBRATION SOLUTIONS

ISO9001:2008
CERTIFIED SUPPLIER



Meter only

Description	CON 6+ kit	Precalibrated CON 6+ kit	TDS 6+ kit	Precalibrated TDS 6+ kit
Catalog number	MA-35604-04	MA-35604-05	MA-35604-24	MA-35604-25
Range	Conductivity 0 to 20.00, 0 to 200.0, 0 to 2000 μ S; 0 to 20.00, 0 to 200.0 mS	—	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†	—
	TDS	—	—	—
	Temperature	–10.0 to 110.0°C	–10.0 to 110.0°C	—
Accuracy	Conductivity	$\pm 1\%$ full-scale	—	—
	Temperature	$\pm 0.5^\circ\text{C}$	$\pm 0.5^\circ\text{C}$	—
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

- [MA-35606-53](#) Conductivity probe, K = 0.1
- [MA-35606-55](#) Replacement conductivity probe, K = 1.0
- [MA-35606-57](#) Conductivity probe, K = 10
- [MA-09376-00](#) Replacement batteries, AAA. Pk of 12
- [MA-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 $\pm 0.25\%$ 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 (μ S)	Resistivity ($\text{M}\Omega$)	TDS (ppm)	Catalog number	Price
A. Batch tested, one 500 mL bottle				
1	1	0.66	MA-00652-20	
5	0.2	3.3	MA-00652-22	
10	0.1	6.6	MA-00652-24	
100	0.01	66	MA-00652-26	
1000	0.001	666	MA-00652-28	
1413	0.00071	933	MA-00652-30	
10,000	0.0001	6666	MA-00652-32	
100,000	0.00001	66,666	MA-00652-34	
150,000	0.0000066	100,000	MA-00652-53	
200,000	0.000005	133,333	MA-00652-55	
B. Individually tested, one 500 mL bottle				
1	1	0.66	MA-00652-40	
5	0.2	3.3	MA-00652-42	
10	0.1	6.6	MA-00652-44	
100	0.01	66	MA-00652-46	
1000	0.001	666	MA-00652-48	
1413	0.00071	933	MA-00652-50	
10,000	0.0001	6666	MA-00652-52	
100,000	0.00001	66,666	MA-00652-54	
150,000	0.0000066	100,000	MA-00652-56	
200,000	0.000005	133,333	MA-00652-58	
C. One-Shot®, pack of six 100 mL vials				
5	0.2	3.3	MA-00652-60	
10	0.1	6.6	MA-00652-62	
100	0.01	66	MA-00652-64	
1000	0.001	666	MA-00652-66	
1413	0.00071	933	MA-00652-68	
10,000	0.0001	6666	MA-00652-70	
100,000	0.00001	66,666	MA-00652-72	
150,000	0.0000066	100,000	MA-00652-76	
200,000	0.000005	133,333	MA-00652-78	
Assortment†	—	—	MA-00652-74	

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



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



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

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	MA-06101-11	12	
60 (2)	53 mm	MA-06101-21		
120 (4)	70 mm	MA-06101-31		
240 (8)	89 mm	MA-06101-40	6	
480 (16)	89 mm	MA-06101-50		
960 (32)	120 mm	MA-06101-60		
1190 (40)	120 mm	MA-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



Capacity, mL (oz)	Description	Catalog number	Qty/pk	Price/pk
118 (4)	Sterile, no tab	MA-06049-40	100	
118 (4)	Nonsterile with white tab	MA-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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Capacity mL (oz)	Dimensions (H x OD)	Catalog number	Qty/pk	Price/pk
7.5 (¼)	5/8 x 1 1/2	MA-66098-00	2500	
15 (½)	¾ x 1 1/2	MA-66098-10	2000	
22.5 (¾)	1 x 1 1/2	MA-66098-20	1500	
30 (1)	1 1/2 x 1 1/2	MA-66098-30	1300	
60 (2)	1 5/8 x 2	MA-66098-40	750	
120 (4)	3 1/8 x 2	MA-66098-50	300	

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

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



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

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	MA-34605-30	24	
240 (8)	70 mm	MA-34605-55		
480 (16)	89 mm	MA-34605-60	12	
960 (32)	89 mm	MA-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	MA-34604-10	24	
	480 (16)		MA-34604-20	24	
	960 (32)		MA-34604-30	12	
Standard rounded	1920 (64)	83 mm	MA-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) 60 (2) 125 (4)	43 53 70	MA-06760-50 MA-06760-52 MA-06760-54	4	
250 (8) 500 (16) 1000 (32)	70 120 120	MA-06760-56 MA-06760-58 MA-06760-60	4	
Polypropylene (PP) containers				
15 (½) 30 (1) 60 (2) 125 (4)	38 43 53 70	MA-06758-48 MA-06758-50 MA-06758-52 MA-06758-54	12	
250 (8) 500 (16) 1000 (32)	70 120 120	MA-06758-56 MA-06758-58 MA-06758-60	6	

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)	32¾ x 15¾ x 12¼	82.2 x 39.1 x 31.1	MA-06745-20	
106 (28)	26¾ x 20½ x 16¾	67.9 x 52.1 x 42.5	MA-06745-40	
204 (54)	35½ x 26 x 20¼	90.2 x 66.0 x 51.4	MA-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

- [MA-60104-02](#) HDPE bag, 24" x 33" (61 x 84 cm)
- [MA-60104-04](#) HDPE bag, 30" x 37" (76 x 94 cm)
- [MA-60104-06](#) HDPE bag, 33" x 40" (84 x 102 cm)

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Texwipe® Cleanroom Swabs

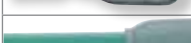
Meet your validation requirements

- 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	MA-33676-01	
	Knit polyester	Sealed polypropylene	0.66" (1.7 cm)	6.39" (16.2 cm)	—	100	MA-33676-07	
	Knit polyester	Sealed polypropylene	0.16" (0.4 cm)	2.76" (7 cm)	ISO Class 3	500	MA-33677-58	
	Knit polyester	Sealed polypropylene	0.27" (0.7 cm)	6.39" (16.2 cm)	ISO Class 3	100	MA-33677-60	
	Knit polyester	Sealed polypropylene	0.5" (1.3 cm)	5.00" (12.7 cm)	ISO Class 3	100	MA-33677-62	
	Knit polyester	Sealed polypropylene	0.5" (1.3 cm)	5.00" (12.7 cm)	—	100	MA-33677-63	
	Knit polyester	Sealed polypropylene	1.01" (2.6 cm)	5.02" (12.8 cm)	—	20	MA-33677-64	
	Knit polyester	Sealed polypropylene	1.01" (2.6 cm)	5.02" (12.8 cm)	—	20	MA-33677-65	
Foam swabs								
	Foam bud	Hardwood	1.10" (2.8 cm)	6.06" (15.4 cm)	—	500	MA-33676-03	
	Cleanfoam	Polypropylene	0.13" (0.3 cm)	2.75" (7 cm)	ISO Class 5	500	MA-33677-50	
	Flexible cleanfoam	Polypropylene	0.13" (0.3 cm)	2.67" (6.8 cm)	ISO Class 5	500	MA-33677-52	
	Cleanfoam	Polypropylene	0.25" (0.6 cm)	6.37" (16.2 cm)	ISO Class 5	500	MA-33677-55	
	Circular foam	Sealed polypropylene	0.81" (2.1 cm)	5.20" (13.2 cm)	ISO Class 5	100	MA-33677-56	
	Cleanfoam	ESD	0.14" (0.4 cm)	3.50" (8.9 cm)	ISO Class 5	500	MA-33677-72	
	Cleanfoam	ESD	0.15" (0.4 cm)	2.75" (7 cm)	ISO Class 5	500	MA-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	—	4 1/2" x 8 1/2"	280	1	MA-25000-35	
		4 1/2" x 8 1/2"	280	6	MA-25000-37	
		4 1/2" x 8 1/2"	280	60	MA-33670-04	
		15" x 16 3/4"	140	15	MA-33670-06	
Kaydry® EX-L, 2 ply	—	15" x 16 3/4"	90	15	MA-33670-10	
Cleanroom wipes						
Kimtech CL4 Cleanroom	ISO Class 4	12" x 12"	100	5	MA-33670-20	

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



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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

03773-51



03773-57



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)	MA-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)	MA-03773-53	
10	2" (5.1 cm)	45 days	0.22	23 ¹ / ₂ " x 11 ³ / ₈ " (59.7 x 28.9 cm)	MA-03773-55	
25	2 ¹ / ₂ " (6.4 cm)	109 days	0.23	25 ¹ / ₁₆ " x 15 ⁵ / ₈ " (65.5 x 39.7 cm)	MA-03773-57	
35	2 ¹ / ₂ " (6.4 cm)	152 days	0.23	26 ⁵ / ₁₆ " x 18 ¹ / ₁₆ " (66.8 x 47.8 cm)	MA-03773-59	
50	2 ¹ / ₂ " (6.4 cm)	122 days	0.41	32 ³ / ₈ " x 18 ¹ / ₁₆ " (82.2 x 47.8 cm)	MA-03773-61	

†Static holding times and evaporation rates are nominal.

[MA-03773-63](#) Dipper removes 12 mL of liquid nitrogen from 10-, 25-, 35-, and 50-liter Dewars without tipping the flask

[MA-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, 2¹/₄"-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.



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	MA-03719-00	
B	—	—	16 ⁵ / ₈ x 10 ¹ / ₄ x 10 ³ / ₄	42.2 x 26.0 x 27.3	MA-03720-20	
C	1.6	90	15 ¹ / ₄ x 14 x 15 ¹ / ₄	38.7 x 35.6 x 38.7	MA-03721-02	
	2.5	155	17 ¹ / ₈ x 16 ⁷ / ₈ x 16 ¹ / ₂	44.1 x 42.8 x 41.9	MA-03721-00	
	5	215	21 x 13 ¹ / ₂ x 24	53.3 x 34.3 x 61.0	MA-03720-00	

[MA-03721-10](#) Dolly for 03721-00 and -02 containers

[MA-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 ¹ / ₁₆ (7.2)	3 ³ / ₈ (8.6)	4 ⁷ / ₈ (12.4)	6 ³ / ₁₆ (15.7)	MA-03766-10	
665	2 ¹ / ₁₆ (7.2)	3 ³ / ₈ (8.6)	7 ¹ / ₁₆ (19.5)	9 ¹ / ₂ (24.1)	MA-03766-20	
1000	2 ¹ / ₁₆ (7.2)	3 ³ / ₈ (8.6)	11 ⁷ / ₈ (30.1)	13 ³ / ₁₆ (33.8)	MA-03766-30	
1900	4 ¹ / ₁₆ (11.9)	5 ⁷ / ₈ (14.9)	7 ¹ / ₂ (19.1)	9 ⁵ / ₈ (25.1)	MA-03767-10	
4300	5 ⁵ / ₈ (14.3)	7 (17.8)	12 (30.5)	14 ³ / ₈ (36.6)	MA-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 ⁵ / ₈ (14.9)	6 ³ / ₈ (16.8)	7 ⁷ / ₁₆ (18.6)	MA-03772-10	
2	5 ¹ / ₂ (14.0)	6 ³ / ₁₆ (16.0)	6 ¹ / ₁₆ (16.9)	8 ¹ / ₂ (21.6)	MA-03772-20	
4	5 ¹ / ₂ (14.0)	6 ³ / ₁₆ (16.0)	12 ³ / ₁₆ (31.0)	14 ³ / ₈ (36.6)	MA-03772-40	

All-Plastic Dewar Flasks

Implosion proof

- Safe to use with LN₂, 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)	MA-06726-20	
2	4 ³ / ₄ (12.1)	7 ¹ / ₄ (18.4)	9 (22.9)	10 ¹ / ₄ (26.0)	MA-06726-40	
4	5 ³ / ₄ (14.6)	9 (22.9)	11 ¹ / ₄ (28.6)	12 ³ / ₄ (32.4)	MA-06726-60	
10	7 ³ / ₄ (19.7)	12 (30.5)	15 ¹ / ₂ (39.4)	18 (45.7)	MA-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



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"	MA-06755-71	
	0.5, 1.5, 2 mL	81	5¼" x 5¼" x 2"	MA-06755-72	
	0.5, 1.5 mL	100	5¼" x 5¼" x 2"	MA-06755-73	
Boxes without cell dividers	—	—	3" x 3" x 2"	MA-06755-74	
	—	—	5¼" x 5¼" x 4⅞"	MA-06755-75	
	—	—	5¼" x 5¼" x 2"	MA-06755-76	
	—	—	5¼" x 5¼" x 3"	MA-06755-77	



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"	MA-06755-80	
06755-75	50 mL	16	5⅜" x 5⅜" x 2¾"	MA-06755-78	
	15 mL	36		MA-06755-79	
06755-76, 06755-77	50 mL	25	4⅞" x 4⅞" x 1⅝"	MA-06755-81	
	1.5, 2 mL	49		MA-06755-82	
	1.5, 2 mL	64		MA-06755-83	
	0.5, 1.5, 2.0 mL	81	4⅞" x 4⅞" x 1⅝"	MA-06755-84	
	0.5, 1.5 mL	100		MA-06755-85	
	0.5, 1.5 mL	144		MA-06755-86	

Argos Technologies® Magne-Box™ Cryo-Boxes

Magnetic closure keeps your samples secure

NEW

- 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

MAGNE-BOX™



No. of tubes	Color	Dimensions (inches)	Catalog number	Qty/pk	Price/pk
25	Orange	3 x 3 x 2⅞	MA-04200-03	8	
81	Assorted (purple, green, blue, orange)	5¼ x 5¼ x 2⅞	MA-04200-04	4	
81-tall	Blue	5¼ x 5¼ x 3¾	MA-04200-05	4	
100	Green	5¼ x 5¼ x 2⅞	MA-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)	MA-09113-02	
	Large		MA-09113-04	
Mid-arm	Medium	15" (38 cm)	MA-09113-12	
	Large		MA-09113-14	
	X-large		MA-09113-16	
Elbow	Medium	19" (48 cm)	MA-09113-22	
	Large		MA-09113-24	
	X-large		MA-09113-26	
Waterproof Cryo-Glove gloves				
Mid-arm	Medium	15" (38 cm)	MA-09113-30	
	Large		MA-09113-32	
	X-large		MA-09113-34	
Elbow	Medium	19" (48 cm)	MA-09113-35	
	Large		MA-09113-37	
	X-large		MA-09113-39	
Cryo-Industrial heavy-duty gloves				
Mid-arm	Medium	15" (38 cm)	MA-09113-62	
	Large		MA-09113-64	
	X-large		MA-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	MA-04396-68	1000	
0.37 (0.95) dia	White	MA-04396-69	5000	
0.37 (0.95) dia	Blue	MA-04396-86	1000	
0.37 (0.95) dia	Red	MA-04396-87	1000	
0.37 (0.95) dia	Green	MA-04396-88	1000	
0.37 (0.95) dia	Yellow	MA-04396-89	1000	
0.37 (0.95) dia	Purple	MA-04396-90	1000	
0.37 (0.95) dia	Assorted	MA-04396-85	5000	
0.5 (1.3) dia	White	MA-04396-65	1000	
0.75 (1.9) dia	White	MA-04396-70	1000	
0.75 (1.9) dia	White	MA-04396-71	5000	
Dots on sheets for laser printers				
0.37 (0.95) dia	White	MA-04396-64	3840	
0.5 (1.3) dia	White	MA-04396-84	3840	
0.75 (1.9) dia	White	MA-04396-72	2160	
Strips on rolls				
0.78 W x 0.24 H (2.0 x 0.6)	White	MA-04396-67	1000	
1.3 W x 0.5 H (3.3 x 1.3)	White	MA-04396-66	1000	
1.3 W x 0.5 H (3.3 x 1.3)	Blue	MA-04396-79	1000	
1.3 W x 0.5 H (3.3 x 1.3)	Red	MA-04396-80	1000	
1.3 W x 0.5 H (3.3 x 1.3)	Green	MA-04396-81	1000	
1.3 W x 0.5 H (3.3 x 1.3)	Yellow	MA-04396-82	1000	
1.3 W x 0.5 H (3.3 x 1.3)	Purple	MA-04396-83	1000	
Strips on sheets for laser printers				
0.94 W x 0.5 H (2.4 x 1.3)	White	MA-04396-75	2380	
1.3 W x 0.5 H (3.3 x 1.3)	White	MA-04396-73	1700	
1.3 W x 0.5 H (3.3 x 1.3)	Assorted	MA-04396-74	2125	
1.5 W x 0.24 H (3.8 x 0.6)	White	MA-04396-77	3120	
1.5 W x 0.24 H (3.8 x 0.6)	Assorted	MA-04396-78	3900	
2.6 W x 0.98 H (6.7 x 2.5)	White	MA-04396-76	600	

Accessories

[MA-04396-91](#) Label dispenser, blue acrylic. Accommodates up to 6 rolls of cryogenic dots or strips

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.

NEW



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 4½" x 3" (36.8 x 10.5 x 7.6 cm)	MA-06755-01	10	
			MA-06755-02	100	





Argos Technologies® PolarSafe® Stainless Steel Freezer Racks

Get organized for easier retrieval of samples

NEW



- 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.

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 6¾" x 16½"	MA-04398-12	
	12	3 x 4	5½" x 8¾" x 16½"	MA-04398-13	
	16	4 x 4	5½" x 8¾" x 21½"	MA-04398-14	
	20	4 x 5	5½" x 11" x 21½"	MA-04398-15	
	20	5 x 4	5½" x 8¾" x 26¾"	MA-04398-17	
	24	4 x 6	5½" x 12¾" x 21½"	MA-04398-16	
3" boxes	25	5 x 5	5½" x 11" x 26¾"	MA-04398-18	
	12	4 x 3	5½" x 9¾" x 21½"	MA-04398-30	
	16	4 x 4	5½" x 12¾" x 22½"	MA-04398-32	
2", 3", 3¾" boxes	16, 12, 10	4 open columns	5½" x 9¾" x 21½"	MA-04398-33	
Standard 96-/384-well plates	70 w/lids, 80 w/o lids	—	5½" x 9¾" x 18¾"	MA-04398-34	
	84 w/lids, 96 w/o lids	—	5½" x 9¾" x 22"	MA-04398-35	
96-well deep well plates	36	6 x 6	5½" x 11" x 22"	MA-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 7½" x 16½"	MA-04398-19	
	12	3 x 4	5½" x 9¾" x 16½"	MA-04398-20	
	16	4 x 4	5½" x 9¾" x 22"	MA-04398-21	
	20	4 x 5	5½" x 11½" x 22"	MA-04398-22	
	20	5 x 4	5½" x 9¾" x 26¾"	MA-04398-24	
	24	4 x 6	5½" x 12¾" x 22"	MA-04398-23	
3" boxes	25	5 x 5	5½" x 11½" x 26¾"	MA-04398-25	
	12	4 x 3	5½" x 10½" x 22"	MA-04398-31	
15-mL centrifuge tubes	160	2 drawers	5½" x 9½" x 22"	MA-04398-27	
50-mL centrifuge tubes	78	2 drawers	5½" x 9½" x 22"	MA-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	5¾" x 26¾" x 5½"	MA-04398-28	
	13	1 x 13	5¾" x 28¼" x 5½"	MA-04398-29	

Find even more online! Go to ColeParmer.com for a wide selection of cryogenic storage products.

Corning® CoolCell® Containers

Less mess with alcohol-free cell freezing

- Solid thermoconductive core eliminates the hassle of IPA changes
- Control the rate of freezing to –1°C/minute in a –80°C freezer to maintain cell viability
- Highly reproducible cooling profile ensures repeatable results



This freezing system constructed of uniform-density cross-linked polyethylene foam with a solid-state core cools at a consistent rate, providing live samples the best opportunity to remain viable throughout the freezing and storage process.

Easy to use—load your sample tubes and place in the freezer. CoolCell containers rapidly return to room temperature when removed from the freezer, making them easy to handle.

Use filler vials (order separately) when you need to freeze less than a full load of samples to maintain a consistent cooling profile. Order additional vial modules to quickly change out all 30 vials at once; compatible with standard 5" x 5" x 2" (12.7 x 12.7 x 5.1 cm) cryogenic storage boxes.

Vial size	Vials held	Color	Catalog number	Price
For cryogenic vials without exposed tops				
1.0 to 2.0 mL	12	Purple	MA-04392-00	
For cryogenic vials with exposed tops				
1.0 to 2.0 mL	12	Purple	MA-04392-01	
		Green	MA-04392-02	
		Orange	MA-04392-03	
		Pink	MA-04392-04	
1.0 to 2.0 mL	30	Purple	MA-04392-06	
		Green	MA-04392-08	
		Orange	MA-04392-07	
		Pink	MA-04392-09	
5.0 mL	12	Purple	MA-04392-05	
For serum vials with exposed tops				
2.0 mL	12	Purple	MA-04392-10	
10 mL	6	Purple	MA-04392-11	

[MA-04392-76](#) CoolCell filler vials, 2 mL.

Pack of 6

[MA-04392-77](#) CoolCell filler vials, 5 mL.

Pack of 6

[MA-04392-78](#) CoolCell 30-place vial module.

Pack of 10



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



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	MA-34502-68	2	
10	0.2	± 0.2	MA-34502-69		
25	0.5	± 0.5	MA-34502-70	1	
50	1	± 1	MA-34502-71		
100	1	± 1	MA-34502-72		
250	2	± 2	MA-34502-73		
500	5	± 5	MA-34502-74	1	
1000	10	± 10	MA-34502-75		
2000	20	± 20	MA-34502-76		

Cole-Parmer® elements™ Graduated Cylinders, PP

Molded one piece for enhanced durability

- Wide hexagonal base provides stability
- Accurate to $\pm 2.5\%$
- 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 ($\pm$ mL)	Catalog number	Qty/pk	Price/pk
50 (1.7)	1	$\pm 2.5\%$	MA-06200-24	10	
100 (3.5)	1		MA-06200-25		
250 (8)	5		MA-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	MA-34300-17	1		—	1	—
25	0.2	±0.17	MA-34300-19			MA-34300-20		
50	1	±0.25	MA-34300-21			MA-34300-22		
100	1	±0.40	MA-34300-23			MA-34300-24		
250	2	±0.80	MA-34300-25	1		MA-34300-26	1	
500	5	±1.30	MA-34300-27			MA-34300-28		
1000	10	±3.0	MA-34300-29			MA-34300-30		
2000	20	±5.0	MA-34300-31			MA-34300-32		
Cylinders calibrated "To Deliver"								
10	0.1	±0.10	MA-34300-01	1		—	1	—
25	0.2	±0.17	MA-34300-03			MA-34300-04		
50	1	±0.25	MA-34300-05			MA-34300-06		
100	1	±0.40	MA-34300-07			MA-34300-08		
250	2	±0.80	MA-34300-09	1		MA-34300-10	1	
500	5	±1.3	MA-34300-11			MA-34300-12		
1000	10	±3.0	MA-34300-15			MA-34300-16		
2000	20	±5.0	MA-34300-13			MA-34300-14		



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	MA-06137-70		MA-06137-50	
25	0.5	MA-06137-72		MA-06137-52	
50	1.0	MA-06137-74		MA-06137-54	
100	1.0	MA-06137-76		MA-06137-56	
250	2.0	MA-06137-78		MA-06137-58	
500	5.0	MA-06137-80		MA-06137-60	
1000	10.0	MA-06137-82		MA-06137-62	
2000	20.0	MA-06137-84		MA-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 and 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	MA-06135-10		MA-06134-10	
50	1.0	±0.50	MA-06135-30		MA-06134-30	
100	1.0	±1.00	MA-06135-40		MA-06134-40	
500	5.0	±4.00	MA-06135-60		MA-06134-60	
1000	10.0	±6.00	MA-06135-70		MA-06134-70	
4000	50.0	±29.00	MA-06135-90		MA-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	MA-34546-01		MA-34546-21	24	
25	0.2	MA-34546-02		MA-34546-22	18	
50	1.0	MA-34546-03		MA-34546-23	18	
100	1.0	MA-34546-04		MA-34546-24	12	
250	2.0	MA-34546-05		MA-34546-25	12	
500	5.0	MA-34546-06		MA-34546-26	8	
1000	10.0	—	—	MA-34546-27	1	
2000	20.0	—	—	MA-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	MA-06134-61	2	
		MA-06134-62	24	
25	0.5	MA-06134-63	2	
		MA-06134-64	12	
50	1.0	MA-06134-67	2	
		MA-06134-66	12	
100	1.0	MA-06134-69	2	
		MA-06134-68	12	
250	2.0	MA-06134-71	1	
		MA-06134-72	6	
500	5.0	MA-06134-73	1	
		MA-06134-74	4	
1000	10.0	MA-06134-77	1	
		MA-06134-76	3	
2000	20.0	MA-06134-79	1	
		MA-06137-78	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

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		Pore size	Housing	Retention volume	Qty/ bx	Catalog number	Price/ bx
Type	Dia						
Nonsterile filters							
Cellulose acetate	26 mm	0.20 µm	Acrylic	0.23 mL	100	MA-02915-90	
		0.45 µm				MA-02915-92	
		0.80 µm				MA-02915-94	
Sterile filter							
Cellulose acetate	26 mm	0.20 µm	Acrylic	0.23 mL	50	MA-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	MA-02915-60	
0.45 µm			Clear		MA-02915-58	
0.80 µm			Green		MA-02915-62	
Sterile filters						
0.22 µm	26 mm	Acrylic	Blue	50	MA-02915-12	
0.45 µm			Clear		MA-02915-00	
0.80 µm			Green		MA-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	MA-02915-16	
0.45 µm					MA-02915-14	
Sterile filters						
0.20 µm	25 mm	PP	Red	50	MA-02915-04	
0.45 µm			Natural		MA-02915-02	



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 cm²
25 mm	PP	≤100 mL	0.1 mL	87 psi	127°C	4.8 cm²
26 mm	Acrylic	≤100 mL	0.1 mL	87 psi	50°C	5.3 cm²
50 mm	PP	≤2 L	0.5 mL	60 psi	134°C	20 cm²

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

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 1/4" to 1/2" ID tubing



Pore size	Membrane dia	Housing	Color	Qty/bx	Cat. no.	Price/bx
Nonsterile filters						
0.20 µm	15 mm	PP	Natural	100	MA-29550-08	
0.45 µm					MA-29550-10	
0.20 µm	25 mm	PP	Natural	100	MA-02915-20	
0.45 µm					MA-02915-22	
0.20 µm	50 mm	PP	Natural	20	MA-02915-28	
0.45 µm					MA-02915-30	
Sterile filters						
0.20 µm	25 mm	PP	Natural	50	MA-02915-08	
0.50 µm					MA-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 sterilization 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	MA-02915-56	
Sterile filters						
0.20 µm	26 mm	Acrylic	Blue	50	MA-02915-52	
0.45 µm					MA-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).

Nylon filter shown
with tubing
attached



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	MA-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	MA-02909-10	5	
	Nylon	98%	8 µm	1.0	125	6.9	10	25	230°F (110°C)	¼" OD	MA-02909-20	5	
	PVDF	93%	25 µm	1.2	5.4	8.3	12	30	275°F (135°C)	¼" OD	MA-02908-40	5	
	PVDF	98%	8 µm	1.0	125	6.9	10	25	275°F (135°C)	¼" OD	MA-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	MA-02909-30	5	
	Nylon		2 µm	0.8	3.6	5.4	—	—	230°F (110°C)	¼" OD	MA-02909-40†	5	
	PVDF		2 µm	0.8	3.6	5.4	3	15	275°F (135°C)	¼" OD	MA-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	MA-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	MA-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	MA-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	MA-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	MA-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	MA-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	MA-02908-90	5	

†Turns red when saturated.

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 ₂ O†	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	MA-06639-25		MA-06639-28		MA-06639-31		MA-06639-34		MA-06639-41		MA-36230-81	
0.20	54.5	0.018	2.4	MA-06639-01		MA-06639-05		MA-06639-13		MA-06639-35		MA-06639-17		MA-36230-82	
0.45	35.0	0.045	3.7	MA-06639-02		MA-06639-06		MA-06639-14		MA-06639-36		MA-06639-18		MA-36230-83	
0.80	16.4	0.165	15.0	MA-06645-30		MA-06645-32		MA-06645-34		MA-06645-36		MA-06645-38		MA-36230-84	
1.00	13.9	0.220	20.4	MA-06639-47		MA-06639-49		MA-06639-51		MA-06639-55		MA-06639-53		MA-36230-85	
3.00	10.2	0.300	28.3	MA-06639-26		MA-06639-29		MA-06639-32		MA-06639-39		MA-06639-42		MA-36230-86	
5.00	8.5	0.400	40.9	MA-06639-27		MA-06639-30		MA-06639-33		MA-06639-40		MA-06639-43		MA-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

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

[MA-02930-95](#) Support screen, 25 mm. Pack of 8

[MA-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.**



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



Cole-Parmer® Barbed Fittings

No tools needed for assembly

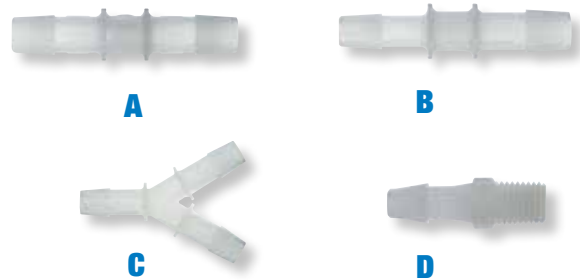
Combine these fittings with our flexible tubing for use in your low-pressure applications (less than 30 psi).

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



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.

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.



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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 1/2" polycarbonate fittings is 60 psi.



Complete Couplings

Key	Catalog number	Size	Material	Length	Qty/pk	Price/pk
A	MA-06360-90	1/4" tubing ID	Acetal	—	10	
	MA-31305-00		PC	—	10	
	MA-06360-91		Acetal	—	10	
	MA-31305-05	3/8" tubing ID	PC	—	10	
	MA-31306-05		PSF	—	10	

Standard Bodies and Caps

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

Standard Inserts and Plugs

Key	Catalog number	Size	Material	Length	Qty/pk	Price/pk
Barbed inserts						
I	MA-06360-92	¼" tubing ID	Acetal	1.28" (32.5 mm)	10	
	MA-31311-61		PC		5	
	MA-31311-71		PSF		5	
	MA-06360-93	⅜" tubing ID	Acetal	1.28" (32.5 mm)	10	
	MA-31311-62		PC		5	
	MA-31311-72		PSF		5	
BSP straight-through inserts						
J	MA-06360-27	¼" BSP	Acetal	1.28" (32.5 mm)	10	
	MA-06360-97	⅜" BSP			10	
NPT(M) inserts						
K	MA-06360-16	¼" NPT	Acetal	1.28" (32.5 mm)	10	
	MA-06360-18	⅜" NPT			10	
Compression coupling inserts						
L	MA-06360-21	¼" OD	Acetal	1.28" (32.5 mm)	10	
	MA-06360-24	⅜" OD			10	
Sealing caps						
M	MA-06360-31	¼" OD	Acetal	1.28" (32.5 mm)	10	
	MA-06360-34	⅜" OD			10	
Plugs with lock						
N	MA-31311-68	¼"	PC	1.20" (30.5 mm)	5	
	MA-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	MA-31311-13	½" tubing ID	PC	1.96"	5	
	MA-31311-23		PSF	(49.8 mm)	5	
Hose barb coupling bodies with lock						
P	MA-31311-18	⅜" tubing ID	PC	1.96"	5	
	MA-31311-28		PSF	(49.8 mm)	5	
Barbed inserts						
Q	MA-31311-63	½" tubing ID	PC	1.90" (48.3 mm)	5	
	MA-31311-73		PSF	1.40" (35.6 mm)	5	



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.



NEW



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 (¾)	10 to 25	5	MA-34502-55	24	
50 (1¾)	20 to 50	10	MA-34502-56	12	
100 (3)	40 to 100	20	MA-34502-57		
125 (4)	50 to 125	20	MA-34502-58		
250 (8)	100 to 250	50	MA-34502-59		
300 (10)	100 to 300	50	MA-34502-60	8	
500 (16)	200 to 500	100	MA-34502-61		
1000 (32)	400 to 1000	100	MA-34502-62	6	
2000 (64)	800 to 2000	400	MA-34502-63	1	
3000 (96)	1000 to 3000	500	MA-34502-64		
4000 (128)	2000 to 4000	500	MA-34502-65		
5000 (160)	2000 to 5000	500	MA-34502-66		
6000 (192)	3000 to 6000	500	MA-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



NEW



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	MA-34502-77	10	
5	± 0.02	MA-34502-78		
10	± 0.025	MA-34502-79	2	
20	± 0.030	MA-34502-80		
25	± 0.04	MA-34502-81		
50	± 0.05	MA-34502-82		
100	± 0.1	MA-34502-83	2	
200	± 0.15	MA-34502-84		
250	± 0.15	MA-34502-85		
500	± 0.2	MA-34502-86		
1000	± 0.4	MA-34502-87	1	
2000	± 0.6	MA-34502-88		
5000	± 1.2	MA-34502-89		

Cole-Parmer® Class A Erlenmeyer Flasks, Glass

Don't break the bank

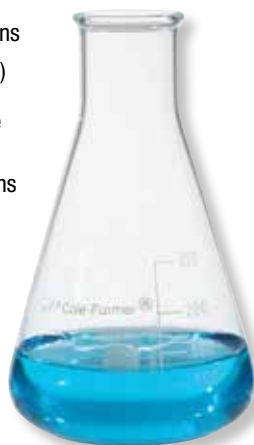
- Easy-reading, white enamel graduations
- Stands up to the heat—752°F (400°C)
for short-term exposure and
445°F (230°C) for long-term exposure
- Class A borosilicate glass meets
ASTM E 1404, DIN 12380 specifications
- Autoclavable



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	MA-34506-10	12	
250	6	50 to 200	25	MA-34506-12	12	
500	7	100 to 500	50	MA-34506-14	6	
1000	9	250 to 1000	50	MA-34506-16	6	
2000	10	600 to 1900	100	MA-34506-18	1	
3000	10	1000 to 3000	500	MA-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 ($\pm$ mL)	Catalog number	Qty/ pk	Price/ pk	Catalog number	Qty/ cs	Price/ cs
1	0.01	MA-34560-01	6	—	MA-34560-21	12	
2	0.015	MA-34560-02	6		MA-34560-22	12	
10	0.02	—	—		MA-34560-24	12	
25	0.03	MA-34560-05	6		MA-34560-25	12	
50	0.05	MA-34560-06	6		MA-34560-26	12	
100	0.08	MA-34560-07	6		MA-34560-27	12	
200	0.10	MA-34560-08	6		MA-34560-28	12	
250	0.12	MA-34560-09	6		MA-34560-29	12	
500	0.20	MA-34560-10	6		MA-34560-30	12	
1000	0.30	MA-34560-11	1		MA-34560-31	6	
2000	0.50	MA-34560-12	1		MA-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	MA-34558-30	6		MA-34558-60	6	
10				MA-34558-32			MA-34558-62		
20				MA-34558-34			MA-34558-64		
25	0.08	13	Orange	MA-34558-36	6		MA-34558-66	6	
50				MA-34558-38			MA-34558-68		
100				MA-34558-40			MA-34558-70		
200	0.1	16	Blue	MA-34558-42	6		MA-34558-72	6	
250				MA-34558-44			MA-34558-74		
500				MA-34558-46			MA-34558-76		
1000	0.2	19	Green	MA-34558-48	6		MA-34558-78	6	
2000				MA-34558-50			MA-34558-80		
1000	0.3	22	Yellow	MA-34558-48	1		MA-34558-78	1	
2000				MA-34558-50			MA-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	MA-34505-05	6	
50	0.05	9	MA-34505-06	6	
100	0.08	13	MA-34505-07	6	
200	0.10	13	MA-34505-08	6	
250	0.12	16	MA-34505-09	6	
500	0.20	19	MA-34505-10	6	
1000	0.30	22	MA-34505-11	1	
2000	0.50	27	MA-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	MA-34503-02	12	
50	20 to 50	MA-34503-03	12	
125	50 to 125	MA-34503-04	12	
250	50 to 200	MA-34503-05	12	
300	100 to 300	MA-34503-06	12	
500	100 to 500	MA-34503-07	6	
1000	250 to 1000	MA-34503-08	6	
2000	600 to 1800	MA-34503-09	1	
4000	1000 to 4000	MA-34503-10	1	
6000	1500 to 6000	MA-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	MA-34557-01	6	
500	7	150 to 500	50	MA-34557-02	6	
1000	8	300 to 1000	50	MA-34557-03	6	
2000	9	600 to 2000	200	MA-34557-04	1	
4000	12	1500 to 4000	500	MA-34557-05	1	

[MA-06414-30](#) Tygon® vacuum tubing, 3/8" ID (for 10-mm tubulation). 10 ft (3 m)

[MA-06414-40](#) Tygon vacuum tubing, 1/2" 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 (1 1/4)	58 mm	6 mm	70 mm	MA-06124-10	100	
50 (1 3/4)	67 mm	6 mm	81 mm	MA-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)	2 3/4"	3/8"	2 1/16"	12	MA-06122-10	
125 (4)	3 1/4"	5/16"	3 3/4"	12	MA-06122-20	
250 (8)	4 1/4"	7/16"	4 1/16"	12	MA-06122-30	
High-density polyethylene (HDPE)						
500 (16)	5"	1 1/2"	5 1/8"	12	MA-06122-40	
1000 (32)	6 1/2"	1 5/16"	7 7/8"	12	MA-06122-50	
2000 (64)	8 1/8"	3/4"	8"	12	MA-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 (3/4) 4 (1)	7 7/8" 11"	3/4" 7/8"	9 1/2" 11 1/2"	MA-06121-10 MA-06121-20	1	
Polypropylene (PP), autoclavable						
2 (1/2) 4.5 (1 1/4) 10 (2 1/2)	8 3/16" 10 1/4" 14"	1 1/16" 1 5/16" 1 9/16"	7 7/8" 10 9/16" 17 3/8"	MA-06121-30 MA-06121-32 MA-06121-34	1	
High-density polyethylene (HDPE)						
12 (3 1/4) 18 (5)	15 3/8" 17 1/4"	1 7/8" 1 3/4"	14 3/8" 16 3/8"	MA-06121-00 MA-06121-36	1	

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	MA-06128-02	1	
55	MA-06128-03	1	
Polypropylene (PP), autoclavable			
90	MA-06128-04	1	
110	MA-06128-05	1	
150	MA-06128-10	1	
240	MA-06128-20	1	

CoorsTek® Büchner Funnels, Ceramic

Stand up to harsh chemicals

- Glazed inside and out for easy cleaning
- Autoclavable



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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	MA-17815-02	1		MA-17815-22	12	
30	35-40	MA-17815-04	1		MA-17815-24	12	
87	50-55	MA-17815-06	1		MA-17815-26	8	
186	70	MA-17815-08	1		MA-17815-28	6	
320	90	MA-17815-10	1		MA-17815-30	4	
550	110	MA-17815-12	1		MA-17815-32	4	
700	110-124	MA-17815-14	1		MA-17815-34	2	
1060	142-150	MA-17815-16	1		MA-17815-36	2	
1860	185	MA-17815-18	1		MA-17815-38	2	
4500	240	—	—	—	MA-17815-40	1	

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

No wimpy construction—stands up to your needs

- Tab for easy lifting



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	Total height	Catalog number	Qty/pk	Price/pk
70 (2 3/8)	3"	3 1/4"	MA-07263-00	1	
190 (6 3/8)	4 1/8"	4 3/8"	MA-07264-00		
400 (13)	5"	5 3/8"	MA-07265-00		
650 (22 1/4)	6"	6 3/8"	MA-07266-00	1	
1000 (32)	6 3/4"	7 1/4"	MA-07267-00		
2000 (64)	8 3/8"	8 3/8"	MA-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	MA-81601-04		
Medium				MA-81601-05		
Large				MA-81601-06		
X-large				MA-81601-07		

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.



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	MA-86287-70		
Medium				MA-86287-71		
Large				MA-86287-72		
X-large				MA-86287-73		
General and laboratory grade powder-free N-DEX gloves						
Small	9½" (24 cm)	4 mil	100	MA-86287-80		
Medium				MA-86287-81		
Large				MA-86287-82		
X-large				MA-86287-83		
Industrial grade N-DEX Plus low-powder† gloves						
Small	9½" (24 cm)	8 mil	50	MA-86287-60		
Medium				MA-86287-61		
Large				MA-86287-62		
X-large				MA-86287-63		

†USP grade cornstarch

Cole-Parmer® Nitrile Gloves

Don't lose your grip

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



Size	Length	Thickness	Qty	Catalog number	Price
Small	9½" (24 cm)	4.0 mil	1 box of 100	MA-15954-42	
Medium				MA-15954-43	
Large				MA-15954-44	
X-large				MA-15954-45	
Small	9½" (24 cm)	4.0 mil	10 boxes of 100 (1000 total)	MA-15954-24	
Medium				MA-15954-25	
Large				MA-15954-26	
X-large				MA-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	MA-25000-13	
4	4	4	—	MA-25000-15	
—	4	4	4	MA-25000-17	
—	6	6	—	MA-25000-19	

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



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

Wait!

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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.



Interchangeable blocks—change as your needs change

StableTemp

36600-01 shown with 36600-68



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	MA-36600-12	
			230	110	MA-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	MA-36600-14	
			230	210	MA-36600-15	
3	±0.1° within the block at 98°F (37°C), ±0.15° across similar blocks at 98°F (37°C)		120	210	MA-36600-16	
			230	210	MA-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	MA-36600-01	
			230	110	MA-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	MA-36600-03	
			230	210	MA-36600-04	
3	±0.1° within the block at 98°F (37°C), ±0.15° across similar blocks at 98°F (37°C)		120	210	MA-36600-06	
			230	210	MA-36600-07	
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	MA-36600-69	
			230	400	MA-36600-70	

[MA-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

- 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	MA-36600-22	
1.5 mL tube	20	11.1 mm	39.1 mm	MA-36600-23	
1.5 mL Eppendorf® tube	20	11.5 mm	36.9 mm	MA-36600-24	
2 mL Eppendorf tube	20	11.5 mm	38.1 mm	MA-36600-25	
2 mL Corning® tube	20	10.9 mm	38.1 mm	MA-36600-26	

StableTemp



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	MA-36600-28	
50 mL tube	5	29 mm	47.6 mm	MA-36600-29	

Cole-Parmer® LabGEN® 850 Homogenizer

Process virtually any laboratory sample in seconds

NEW

- 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 adaptor 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

Description	Sample volume	Power	Motor	Catalog number	Price
LabGEN 850 homogenizer	0.02 mL to 5 L	115 VAC, 50/60 Hz 220 VAC, 50/60 Hz	850 W	MA-04727-28 MA-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	MA-04727-31	
Fine	0.05 to 5 mL	5 mm	75 mm	MA-04727-60	
Fine	0.25 to 30 mL	7 mm	115 mm	MA-04727-33	
Coarse				MA-04727-35	
Fine	1.5 to 100 mL	10 mm	115 mm	MA-04727-37	
Coarse				MA-04727-39	
Fine	100 to 2000 mL	20 mm	195 mm	MA-04727-41	
Coarse				MA-04727-43	
Fine	200 to 5000 mL	30 mm	195 mm	MA-04727-45	
Coarse				MA-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	MA-04727-84 MA-04727-85	25 50	

[MA-04727-88](#) Tip adapter, required for use with plastic tip probes

4. Optional Stand

[MA-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	MA-04720-50 MA-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	MA-04720-72	
1 to 50 mL	115 x 8 mm	1	MA-04720-73	
1 to 100 mL	115 x 10 mm	1	MA-04720-74	

[MA-04720-79](#) Support stand (requires cross sleeve 04720-81)

[MA-04720-81](#) Cross sleeve, attaches stand to clamp

[MA-04720-80](#) Replacement clamp (one is included with homogenizer)

Digi-Sense™ Precalibrated Humidity/Temperature Indicators

Accurately gauge proper humidity levels

- Environment comfort indicator warns of comfortable, wet, or dry conditions
- °F/°C unit selection, Min/Max reading, and clock with alarm and date

“Small, accurate,
easy to use.”



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	MA-20250-30	
Humidity/temperature indicator with external temperature probe	MA-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.



Mode	Humidity	Temperature
Cat. no.	MA-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		

[MA-09376-01](#) Replacement batteries, AA. Pack of 4

[MA-17030-28](#) NIST-traceable calibration with data for standard thermohygrometers

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.



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	MA-37802-10	
Thermohygrometer with remote probe	MA-37809-16	
Thermohygrometer with remote probe and dew point	MA-37803-26	
Indoor/outdoor thermohygrometer with built-in sensor and remote probe	MA-37809-15	

[MA-17030-28](#) NIST-traceable calibration with data for standard thermohygrometers

Cole-Parmer® Brass Case Thermohygrometers

Get the readings you need

- Units for %RH or °F/°C 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.



Mode	%RH	%RH, °F/°C
Catalog number	MA-03310-20	MA-03310-40
Humidity	Range	0 to 100%
	Resolution	1%
	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.

[MA-17030-28](#) NIST-traceable calibration with data for standard thermohygrometers

H-B Instrument DURAC® Specific Gravity Glass Hydrometers

- 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
- All hydrometers are 100% nonmercury

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

Precision Hydrometers, plain form

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

ASTM Hydrometers, plain form

ASTM no.	Range	Divisions	Length	Catalog number	Price
82H	0.650 to 0.700	0.0005	330 mm	MA-08297-81	
83H	0.700 to 0.750	0.0005	330 mm	MA-08297-83	
84H	0.750 to 0.800	0.0005	330 mm	MA-08297-85	
85H	0.800 to 0.850	0.0005	330 mm	MA-08297-87	
86H	0.850 to 0.900	0.0005	330 mm	MA-08297-89	
87H	0.900 to 0.950	0.0005	330 mm	MA-08297-91	
88H	0.950 to 1.000	0.0005	330 mm	MA-08297-93	
89H	1.000 to 1.050	0.0005	330 mm	MA-08297-95	
102H	0.650 to 0.700	0.001	260 mm	MA-08297-97	
103H	0.700 to 0.750	0.001	260 mm	MA-08297-99	
104H	0.750 to 0.800	0.001	260 mm	MA-08298-01	
105H	0.800 to 0.850	0.001	260 mm	MA-08298-03	
106H	0.850 to 0.900	0.001	260 mm	MA-08298-05	
107H	0.900 to 0.950	0.001	260 mm	MA-08298-07	
108H	0.950 to 1.000	0.001	260 mm	MA-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	MA-08297-57	
0.800 to 0.910	0.001	0 to 150°F	2°F	381 mm	MA-08297-59	
0.900 to 1.000	0.001	0 to 150°F	2°F	381 mm	MA-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	MA-08298-60	
1.000 to 1.220	0.002	300 mm	MA-08298-84	
1.000 to 1.250	0.005	165 mm	MA-08298-50	
1.000 to 1.600	0.005	300 mm	MA-08298-80	
1.000 to 2.000	0.01	300 mm	MA-08298-94	
1.060 to 1.130	0.001	165 mm	MA-08298-62	
1.120 to 1.190	0.001	165 mm	MA-08298-64	
1.180 to 1.250	0.001	165 mm	MA-08298-66	
1.200 to 1.420	0.002	300 mm	MA-08298-86	
1.200 to 1.450	0.005	165 mm	MA-08298-52	
1.240 to 1.310	0.001	165 mm	MA-08298-68	
1.300 to 1.370	0.001	165 mm	MA-08298-70	
1.360 to 1.430	0.001	165 mm	MA-08298-48	
1.400 to 1.620	0.002	300 mm	MA-08298-88	
1.400 to 1.650	0.005	165 mm	MA-08298-54	
1.420 to 1.490	0.001	165 mm	MA-08298-72	
1.480 to 1.550	0.001	165 mm	MA-08298-74	
1.540 to 1.610	0.001	165 mm	MA-08298-76	
1.500 to 2.000	0.005	300 mm	MA-08298-82	
1.600 to 1.670	0.001	165 mm	MA-08298-78	
1.600 to 1.820	0.002	300 mm	MA-08298-90	
1.600 to 1.850	0.005	165 mm	MA-08298-56	
1.660 to 1.730	0.001	165 mm	MA-08298-49	
1.720 to 1.790	0.001	165 mm	MA-08294-91	
1.780 to 1.850	0.001	165 mm	MA-08294-93	
1.800 to 2.000	0.002	300 mm	MA-08298-92	
1.800 to 2.000	0.001	165 mm	MA-08298-58	
1.840 to 1.920	0.001	165 mm	MA-08294-95	
1.900 to 1.970	0.001	165 mm	MA-08298-96	
1.970 to 2.040	0.001	165 mm	MA-08298-97	

Precision Hydrometers, plain form

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

ASTM Hydrometers, plain form

ASTM no.	Range	Divisions	Length	Catalog number	Price
125H	1.000 to 1.050	0.001	260 mm	MA-08297-80	
126H	1.050 to 1.100	0.001	260 mm	MA-08297-82	
127H	1.100 to 1.150	0.001	260 mm	MA-08297-84	
128H	1.150 to 1.200	0.001	260 mm	MA-08297-86	
129H	1.200 to 1.250	0.001	260 mm	MA-08297-88	
130H	1.250 to 1.300	0.001	260 mm	MA-08297-90	
131H	1.300 to 1.350	0.001	260 mm	MA-08297-92	
133H	1.400 to 1.450	0.001	260 mm	MA-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	MA-08297-63	
1.200 to 1.420	0.002	0 to 150°F	2°F	381 mm	MA-08297-65	
1.400 to 1.620	0.002	0 to 150°F	2°F	381 mm	MA-08297-67	
1.600 to 1.820	0.002	0 to 150°F	2°F	381 mm	MA-08297-69	
1.800 to 2.000	0.002	0 to 150°F	2°F	381 mm	MA-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	MA-08298-98	



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	MA-14201-42	
Standard Methods Agar	Determine the microbial content in dairy products, food, water and other material of sanitary importance	MA-14201-44	
Baird Parker Agar	Selective medium for the detection and enumeration of coagulase-positive <i>Staphylococci</i> from food samples	MA-14201-48	
PDA (Potato Dextrose Agar)	For cultivation of yeasts and mold and for the inducement of sporulation	MA-14201-52	
HE Enteric Agar	Selective and differential medium for the isolation and differentiation of gram negative enteric pathogens	MA-14201-56	
MacConkey Agar with Sorbital	Selective and differential medium for the detection of enterohemorrhagic <i>E. coli</i> O157:H7	MA-14201-58	
Centrimide Agar	Recommended for the selective isolation and identification of <i>Pseudomonas aeruginosa</i>	MA-14201-62	

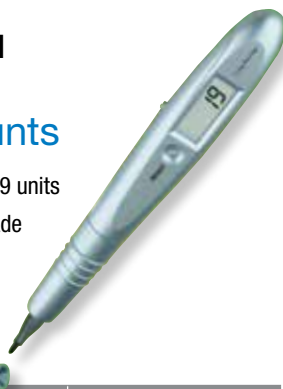
Warning—These products are not approved or intended for, and should not be used for, medical, clinical, surgical or other patient oriented applications.

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	MA-20610-30	

MA-20610-31 Replacement ink cartridge, black

Questions?

Trust our **expert** Application Specialists to help you find the right product.

Polo, 8 years of experience

Call: 1-800-323-4340 E-mail: sales@coleparmer.com Chat live: [ColeParmer.com](#)

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	MA-36150-00	
	90 mL	50	MA-36150-02	
Phosphate buffer with magnesium chloride				
Beverages, dairy products	99 mL	50	MA-36150-10	
	90 mL	50	MA-36150-12	
Peptone water, gamma irradiated				
Foods, dairy products	99 mL	50	MA-36150-20	
	90 mL	50	MA-36150-22	
Buffered peptone water, gamma irradiated				
Foods, dairy products	99 mL	50	MA-36150-30	
	90 mL	50	MA-36150-32	

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	Catalog number	Price/pk
TSA w/ Lecithin & Tween 80	For the cultivation of microorganisms from environmental surfaces.	MA-14201-20	
SabDex with Lecithin & Tween 80	For the cultivation of fungi.	MA-14201-24	
Blood Agar, 5%	For cultivation of microorganisms from environmental surfaces.	MA-14201-28	
Baird Parker Agar	For the selective isolation and enumeration of coagulase positive <i>staphylococci</i> from food and environmental surfaces.	MA-14207-06	
Eosin Methylene Blue, EMB	For isolation and differentiation of gram negative bacilli.	MA-14201-32	
Rose Bengal Agar	For the selective isolation and enumeration of yeasts and molds.	MA-14201-36	

Cole-Parmer® Sterile Cell Lifters

Easily harvest cells from culture dishes, plates, and tubes

NEW

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.



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

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	MA-06254-00	
60 (2)	24 mm	96	MA-06254-10	
125 (4)	38-430 mm	48	MA-06254-20	
250 (8)	38-430 mm	48	MA-06254-30	
500 (16)	38-430 mm	24	MA-06254-40	
1000 (32)	38-430 mm	24	MA-06254-50	
2000 (128)	53B mm	12	MA-06254-60	

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

Get better cultures

- Sterilized by gamma irradiation



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

*Model 14007-10 is square in shape

Cole-Parmer® Slideable Sterile Petri Dish

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®

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	MA-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

Dia x H (mm)	Qty/pk	Catalog number	Price/pk
60 x 15	500	MA-06139-01	
100 x 15	500	MA-06139-00	
150 x 20	100	MA-06139-02	

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	MA-01850-22 MA-01850-24	

[MA-01850-26](#) Replacement heater element for 01850-22

[MA-01850-28](#) Replacement heater element for 01850-24

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	MA-14005-20 MA-14005-28	
Petri dish without pad	50 x 11	100 500	MA-14005-24 MA-14005-26	

[MA-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 $\frac{3}{8}$ " [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.

 Cole-Parmer®



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

[MA-17050-03](#) NIST-traceable calibration for mixers



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

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 $\frac{5}{8}$ " (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 $\frac{5}{8}$ " 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	$\frac{1}{2}$	4248	120, 60	MA-50009-00	



Accessories

- [MA-50019-94](#) Stainless steel plate mount
- [MA-50019-95](#) Replacement screen protector kit
- [MA-50019-96](#) Stainless steel multiposition C-clamp set
- [MA-50019-97](#) Replacement stainless steel chuck with key, 16-mm shaft diameter
- [MA-50019-98](#) Replacement chuck shaft guard
- [MA-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 $\frac{3}{8}$ " [10 mm] dia shafts), $6\frac{1}{4}$ " L x $\frac{1}{2}$ " 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	$\frac{1}{25}$	259	115, 50/60	MA-50705-00	
			230, 50/60	MA-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 $\frac{3}{8}$ " [10 mm] dia shaft) and $6\frac{1}{4}$ " L x $\frac{1}{2}$ " 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	$\frac{3}{16}$	85	115, 50/60	MA-50704-20	
			230, 50/60	MA-50704-25	
Eurostar 100 digital mixer					
30 to 1300	$\frac{1}{8}$	142	115, 50/60	MA-50704-30	
			230, 50/60	MA-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 $\frac{3}{8}$ " [10 mm] dia shaft) and $6\frac{1}{4}$ " L x $\frac{1}{2}$ " 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	$\frac{1}{16}$	28.3	115, 50/60	MA-50702-30	
			230, 50/60	MA-50702-35	
Eurostar 40 digital mixer					
30 to 2000	$\frac{1}{8}$	56.6	115, 50/60	MA-50702-40	
			230, 50/60	MA-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	MA-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		

NEW



Oakton® pHTestr® 50 Pocket Tester

Bring the performance of your lab instruments into the field

NEW

- 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
- Set up and calibrate quickly with easy-to-navigate interface
- Don't let temperature interfere—automatic temperature compensation minimizes impact
- Recessed, glass pH bulb protects against breakage
- Leakproof, stabilizing cap—use to calibrate, stand upright, and store sensor
- Waterproof, IP67-rated housing resists most chemicals



Oakton® Waterproof pHTestr® 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		MA-35634-16	MA-35634-46	MA-35634-52	MA-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					

NEW



OAKTON®

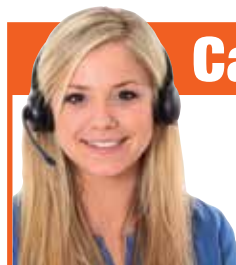
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Model	pHTestr 50	
Catalog number	MA-35634-15	
Range	pH	-1.00 to 15.00 pH
	Temperature	32 to 140°F (0 to 60°C)
Resolution	pH	0.01 pH
	Temperature	0.1°F/°C
Accuracy	pH	±0.01 pH
	Temperature	±0.9°F (0.5°C) + 1 LSD from 32 to 122°F (0 to 50°C); ±1.8°F (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		

Accessories

MA-35634-17 Replacement sensor for pH50



Can't choose?

Trust our **expert**
Application Specialists to
help you find the
right product.

Katie, 5 years of experience

Call: 1-800-323-4340 E-mail: sales@coleparmer.com Chat live: ColeParmer.com

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!

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Includes a data-rich, ISO 17025-compliant certificate!

Precalibrated by **INNOCAL**
INNOVATIVE CALIBRATION SOLUTIONS

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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	$\pm 0.5^\circ\text{C}$
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	MA-35613-50		MA-35613-51	
pH 6+		MA-35613-20		MA-35613-41	
pH 5+	Meter with probe	MA-35613-52		MA-35613-53	
pH 6+		MA-35613-22		MA-35613-42	
pH 5+	Meter kit	MA-35613-54		MA-35613-55	
pH 6+		MA-35613-24		MA-35613-44	

Accessories

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

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

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

MA-35613-05 Replacement ATC probe, stainless steel

MA-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.



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Description		Meter only	Meter with probe	Meter kit
Model		pH 150		
Catalog number		MA-35614-32	MA-35614-30	MA-35614-90
Precalibrated cat. no.		MA-35614-34	MA-35614-33	MA-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 $\pm 0.5\%$ of reading; whichever is greater		
	Temperature	$\pm 0.9^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$)		
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				

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

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

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

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

MA-35420-72 Optional power adapter, 110/220 VAC

MA-09376-01 Replacement batteries, AA. Pack of 4

MA-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 dual-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.

Search

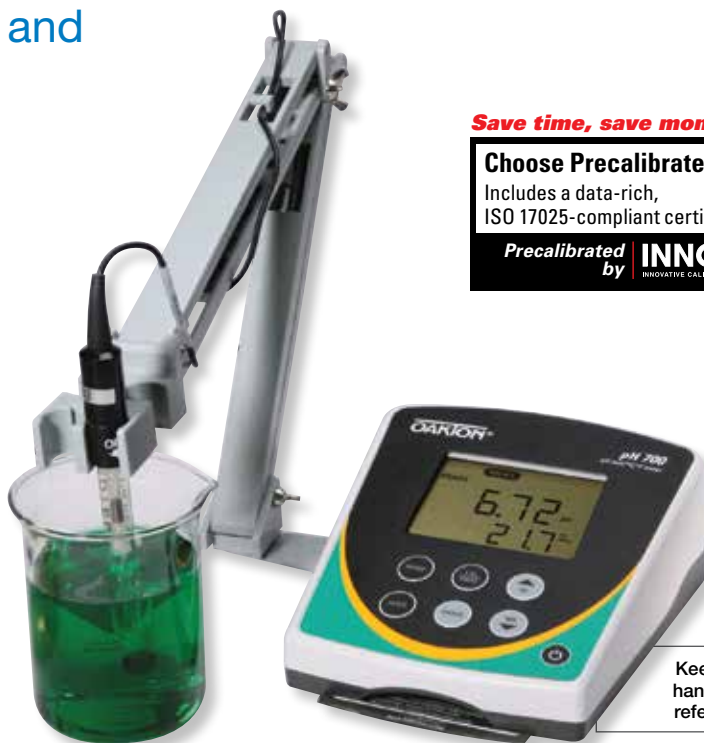
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ColeParmer.com/pHMeters

Save time, save money!

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Includes a data-rich, ISO 17025-compliant certificate!

Precalibrated by **INNOCAL**
INNOVATIVE CALIBRATION SOLUTIONS



Keep procedures handy with quick-reference pull out

OAKTON

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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	MA-35419-00		MA-35419-01	
pH 700	Meter with "all-in-one" pH/ATC electrode	MA-35419-03		MA-35419-05	
Ion 700		MA-35419-23		MA-35419-27	
pH 700	Meter with double-junction pH electrode, ATC probe, and removable electrode holder	MA-35419-10		MA-35419-11	
Ion 700		MA-35419-20		MA-35419-24	
pH 700	Meter with removable electrode holder	MA-35419-12		MA-35419-15	
Ion 700		MA-35419-22		MA-35419-26	

[MA-59001-65](#) Combination pH electrode; single junction, gel-filled, epoxy body

[MA-59001-70](#) Combination pH electrode; double junction, gel-filled, epoxy body

[MA-35811-71](#) "All-in-one" combination pH electrode; single junction, gel-filled, epoxy body

[MA-35805-04](#) Replacement combination pH electrode; double junction, refillable, glass body

[MA-35613-13](#) Replacement ATC probe, SS

[MA-35420-54](#) Replacement electrode arm

[MA-17106-20](#) NIST-traceable calibration with data for pH/ion meter

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

Get fast, stable readings



- 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.

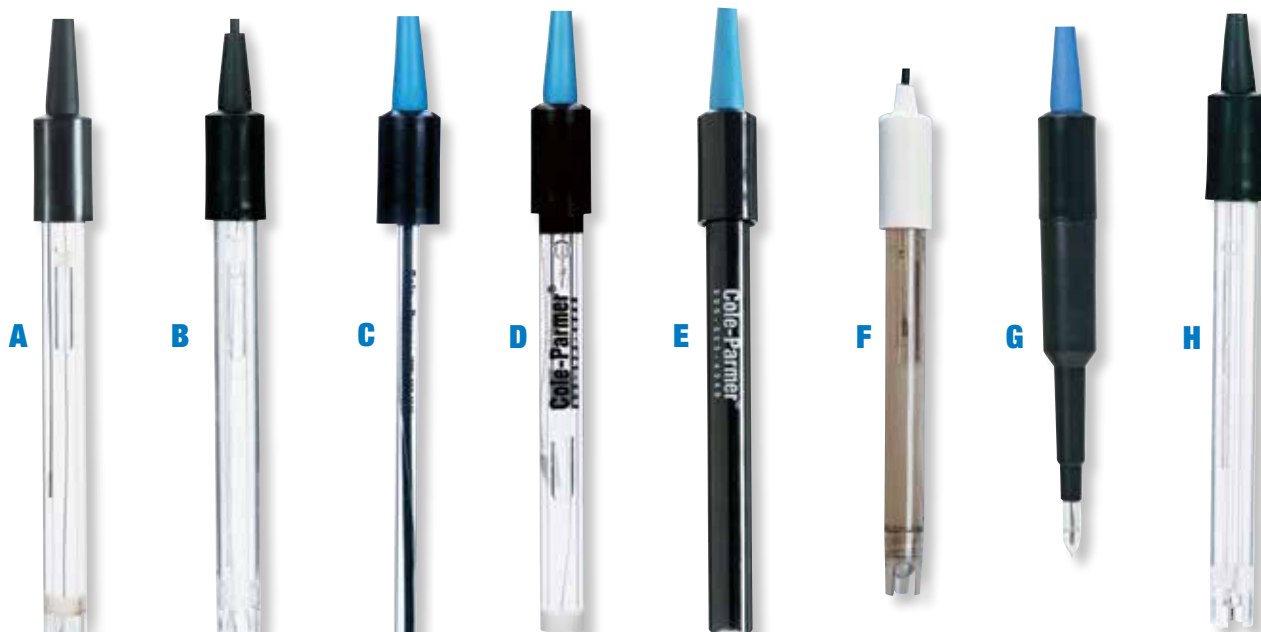
What's included: 3.3-ft (1-m) cable with BNC connector.

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

†Use fill solution 05992-48

††Use fill solution 05992-47

[MA-05992-48](#) Reference fill solution, 4 M KCl. Two 125-mL bottles

[MA-05992-47](#) Reference fill solution, 3.8 M KCl with AgCl. Two 125-mL bottles

[MA-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	MA-35617-50	



Oakton® pH Buffer Solutions

Keep your readings accurate with these quality buffers

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

OAKTON®

pH	500-mL bottles			1-L bottles			3.8-L bottles		
	Catalog number	Price/ea	Catalog number	Price/cs of 12	Catalog number	Price/ea	Catalog number	Price/ea	Catalog number
1.68	MA-00654-01		—	—	—	—	—	—	—
4.01	MA-00654-00		MA-05942-21		MA-05942-22		MA-05942-24		MA-05942-25
6.86	MA-00654-03		—	—	—	—	—	—	—
7.00	MA-00654-04		MA-05942-41		MA-05942-42		MA-05942-44		MA-05942-45
9.18	MA-00654-07		—	—	—	—	—	—	—
10.01	MA-00654-08		MA-05942-61		MA-05942-62		MA-05942-64		MA-05942-65
12.45	MA-00654-12		—	—	—	—	—	—	—

Save by ordering larger sizes or by the case!



Oakton® Traceable® pH Buffers, NIST-Traceable Reference Materials

Feel more confident about accuracies

- Calibrated by ISO Guide 34 and ISO 17025 accredited laboratory—includes NIST-traceable certificate
- Easy calibrations—include instructions and temperature compensation chart

NEW

OAKTON®



pH	500-mL bottles		1-L bottles		3.8-L bottles	
	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
Colorless buffers						
4.005	MA-00651-00		MA-00651-30		MA-00651-70	
7.000	MA-00651-02		MA-00651-32		MA-00651-72	
10.012	MA-00651-04		MA-00651-34		MA-00651-74	
Color-coded buffers						
4.005 (red)	MA-00651-06		MA-00651-36		MA-00651-76	
7.000 (yellow)	MA-00651-08		MA-00651-38		MA-00651-78	
10.012 (blue)	MA-00651-10		MA-00651-40		MA-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	MA-05977-12	
7.0	Green	MA-05977-14	
9.0	Yellow	MA-05977-16	
10.0	Blue	MA-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	MA-35653-01	
7.00	MA-35653-02	
10.00	MA-35653-03	
Rinse solution	MA-35653-00	

MA-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	MA-05942-10	
pH solution pack	5 bottles	MA-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	MA-00653-06		—	—
Storage	MA-00653-04		MA-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.

NEW



Easy-to-read LCD indicates aspirate/dispense speed, gravity mode, and battery charge

Argos
TECHNOLOGIES

Housing color	Catalog number	Price
Blue	MA-25300-96	
Purple	MA-25300-97	
Steel gray	MA-25300-98	

Cole-Parmer® 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

NEW



Material: LDPE

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	MA-06226-07	
B	Mini, short stem	—	—	0.9 µL	1.2 mL	25	2.5 (6.4)	500	MA-06226-30	
C	Short narrow stem	—	—	0.9 µL	1.7 mL	25	3.4 (87)	500	MA-06226-21	
D	Long narrow stem	—	—	3 µL	4 mL	25	3.4 (86)	500	MA-06226-27	
E	Large bulb narrow stem	—	—	3.3 µL	4 mL	22	6.125 (155)	500	MA-06226-28	
F	General purpose	—	—	8 µL	15 mL	19	6.125 (155)	250	MA-06226-32	
	General purpose, sterile	—	—	1.9 µL	5 mL	25	6.125 (155)	500	MA-06226-25	
	General purpose, fine tip	—	—	3.2 µL	7.5 mL	20	6.125 (155)	500	MA-06226-11	
	General purpose, large bulb	—	—	3.2 µL	7.5 mL	20	6.125 (155)	500	MA-06226-31	
		—	—	1 mL	1.5 mL	50	4.1 (104)	500	MA-06226-34	
		—	—	3.3 mL	5.8 mL	50	6.18 (157)	500	MA-06226-33	
		—	—	4.6 µL	8 mL	20	5.875 (152)	400	MA-06226-17	
G	Small bulb, graduated	0.1 mL	0.3 mL	0.8 µL	1.5 mL	21	4.6 (116)	500	MA-06226-13	
		0.5 mL	2 mL	1.9 µL	5 mL	25	6.125 (155)	500	MA-06226-03	
		0.25 mL	1 mL	2.1 µL	3 mL	25	5.4 (138)	500	MA-06226-23	
		0.25 mL	1 mL	2.1 µL	3 mL	25	5.4 (140)	500	MA-06226-29	
H	Large bulb, graduated	0.25 mL	1 mL	3.4 µL	5 mL	25	6.125 (155)	500	MA-06226-12	
		1.0 mL	2 mL	3 µL	6.7 mL	25	5.9 (152)	500	MA-06226-26	
		0.5 mL	3 mL	3.2 µL	7.5 mL	20	6.125 (155)	500	MA-06226-01	
	Large bulb, graduated, sterile	0.25 mL	1 mL	3.4 µL	5 mL	25	6.125 (155)	500	MA-06226-15	
I	Large bulb, double graduated	0.25 mL	1 mL	3.4 µL	5 mL	25	6.125 (155)	500	MA-06226-19	
J	General purpose, wide bulb	—	—	—	7 mL	—	5 (125)	500	MA-06226-35	
K	General purpose, extra long	—	—	2.3 µL	6 mL	25	9 (230)	500	MA-06226-22	
		—	—	7.3 µL	23 mL	20	12 (300)	100	MA-06226-24	

Cole-Parmer® Serological Pipettes, PS

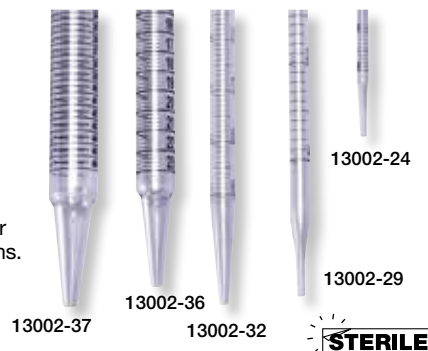
Fits just about any pipettor

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 $\pm 2\%$. 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.

Cole-Parmer®



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	MA-13002-12	500		MA-13002-24	25	1000	
1	0.1	Standard	Red	MA-13002-14	500		MA-13002-26	25	1000	
2	0.01	Standard	White	MA-13002-15	500		MA-13002-28	25	1000	
5	0.1	Standard	Blue	MA-13002-16	200		MA-13002-29	25	500	
10	0.1	Standard	Orange	MA-13002-17	200		MA-13002-30	25	400	
10	0.1	Wide	Orange	—	—	—	MA-13002-32	25	400	
25	0.2	Standard	Green	MA-13002-19	150		MA-13002-36	10	150	
50	0.5	Standard	Purple	MA-13002-20	100		MA-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: autoclavable tip cone and lower section assembly

Volume	Increments	Accuracy	Reproducibility	Catalog number	Price
Fixed-volume pipettors					
100 µL	—	±0.3%	±0.2%	MA-21600-00	
200 µL				MA-21600-02	
500 µL				MA-21600-04	
1000 µL				MA-21600-06	
5000 µL				MA-21600-08	
Adjustable-volume pipettors					
0.1 to 10 µL	0.1 µL	±2.5%	1.33%	MA-21600-10	
5 to 50 µL	1.0 µL	±1.3%	0.7%	MA-21600-12	
20 to 100 µL	1.0 µL	±1.1%	0.4%	MA-21600-14	
40 to 200 µL	1.0 µL	±0.9%	0.3%	MA-21600-16	
200 to 1000 µL	10.0 µL	±0.8%	0.2%	MA-21600-18	
1 to 5 mL	100.0 µL	±0.6%	0.2%	MA-21600-20	

Tips, Polypropylene

Volume (µL)	Qty/pk	Catalog number	Price/pk
0.2 to 10	Bag of 1000	MA-25711-06	
0 to 200	Bag of 1000	MA-25711-12	
	10 racks of 96	MA-25711-14	
50 to 1000	Bag of 1000	MA-18889-08	
	Bag of 1000	MA-25711-70	
	Bag of 500	MA-25711-71	
	Bag of 250	MA-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	$\pm 1.0\%$	$\leq 0.4\%$	MA-24500-01	
5 to 100	0.1 µL	$\pm 0.6\%$	$\leq 0.2\%$	MA-24500-02	
20 to 300	0.5 µL	$\pm 0.5\%$	$\leq 0.2\%$	MA-24500-03	
50 to 1200	1 µL	$\pm 0.4\%$	$\leq 0.2\%$	MA-24500-04	
500 to 5000	5 µL	$\pm 0.5\%$	$\leq 0.2\%$	MA-24500-05	
1000 to 10,000	10 µL	$\pm 0.4\%$	$\leq 0.2\%$	MA-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	MA-25711-49	
	10 racks of 96	MA-25711-51	
	10 racks of 96, sterile	MA-25711-53	
	10 racks of 96, sterile, filtered	MA-25711-55	
1 to 200	Bag of 1000	MA-25711-57	
	10 racks of 96	MA-25711-59	
	10 racks of 96, sterile	MA-25711-61	
	10 racks of 96, sterile, filtered	MA-25711-65	
1000 to 5000	Bag of 500	MA-25711-71	
	Bag of 500	MA-25711-73	
	Bag of 1000	MA-25711-66	
	10 racks of 96	MA-25711-67	
1000 to 10,000	10 racks of 96, sterile	MA-25711-68	
	10 racks of 96, sterile, filtered	MA-25711-69	

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



FEATURES

- ✓ Flow range: 0.00013 to 43 mL/min
- ✓ Reversible pumping
- ✓ Remote control capabilities

MASTERFLEX®

ISO9001:2008
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	MA-77122-04	
							12 VDC†	—	MA-77122-06	
13 to 80			90 to 260, 50/60				175 mA at 115 VAC	MA-77122-14		
			12 VDC†				—	MA-77122-16		
50 to 300			3				90 to 260, 50/60	400 mA at 115 VAC	MA-77122-24	
							12 VDC†	—	MA-77122-26	
B. C/L digital Microflex pump										
0.1 to 300	±0.1%	1	3	Yes	IP33	8½" x 5½" x 6½" (20.5 x 14 x 15.7 cm)	90 to 260	0.34 at 115 VAC, 0.2 at 230 VAC	MA-77123-00	

†Power supply not included with 12 VDC models.

MA-17050-01 NIST-traceable calibration with data for peristaltic pump drive

For A models:

MA-77120-03 Brackets for panel mounting. Set of 2

MA-77200-07 Replacement power supply, 100 to 240 VAC, for pump 77122-24

MA-77120-11 Replacement power supply, 100 to 240 VAC, for pumps 77122-04, -14

For B model:

MA-07523-92 Foot switch, momentary start/stop; DB25 male; 6-ft (1.8-m) cable

MA-07523-95 Cable assembly, DB25 male connector and 25-ft (7.9-m) cable with stripped wire ends

MA-07523-97 Handheld remote controller, DB25 male, route tubing through handle for dispensing applications; 6-ft (1.8-m) cable

MA-77123-80 Replacement single-channel Microflex pump head

MA-07525-90 Replacement power supply, 90 to 260 VAC

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	MA-06460-10	—	MA-07625-10	MA-95809-10	MA-06449-10	—	MA-96418-10	MA-95718-10	MA-95712-10
0.25	MA-06460-12	—	MA-07625-12	MA-95809-12	MA-06449-12	—	MA-96418-12	MA-95718-12	MA-95712-12
0.51	MA-06460-18	MA-95590-18	MA-07625-18	MA-95809-18	MA-06449-18	MA-97632-18	MA-96418-18	MA-95718-18	MA-95712-18
0.89	MA-06460-26	MA-95590-26	MA-07625-26	MA-95809-26	MA-06449-26	MA-97632-26	MA-96418-26	MA-95718-26	MA-95712-26
1.14	MA-06460-30	MA-95590-30	MA-07625-30	MA-95809-30	MA-06449-30	MA-97632-30	MA-96418-30	MA-95718-30	MA-95712-30
1.42	MA-06460-34	MA-95590-34	MA-07625-34	MA-95809-34	MA-06449-34	MA-97632-34	MA-96418-34	MA-95718-34	MA-95712-34
2.06	MA-06460-42	MA-95590-42	MA-07625-42	MA-95809-42	MA-06449-42	MA-97632-42	MA-96418-42	MA-95718-42	MA-95712-42
2.79	MA-06460-48	MA-95590-48	MA-07625-48	MA-95809-48	MA-06449-48	MA-97632-48	MA-96418-48	MA-95718-48	MA-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	

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.

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	—

Number of channels	rpm	Speed control (repeatability)	Reversible motor	IP rating	Dimensions (L x W x H) (23.9 x 14.0 x 15.7 cm)	Power (50/60 Hz)		Catalog number	Price
						VAC	Amps		
1	0.1 to 300	±0.1%	Yes	IP33		90 to 260	0.34 at 115 VAC, 0.2 at 230 VAC	MA-07525-20	
2								MA-07525-40	

MA-07523-92 Foot switch, momentary start/stop; DB25 male; 6-ft (1.8-m) cable

MA-07523-95 Cable assembly, DB25 male connector and 25-ft (7.9-m) cable with stripped wire ends



FEATURES

- ✓ Flow rates: 0.005 to 381 mL/min
- ✓ Intuitive icon-driven programming
- ✓ Tubing calibration for accuracy
- ✓ Single- or dual-channel models

MASTERFLEX®

ISO9001:2008
CERTIFIED SUPPLIER

Power supplies are:



MA-07523-97 Handheld remote controller, DB25 male, route tubing through handle for dispensing applications; 6-ft (1.8-m) cable

MA-17050-01 NIST-traceable calibration with data for peristaltic pump drive

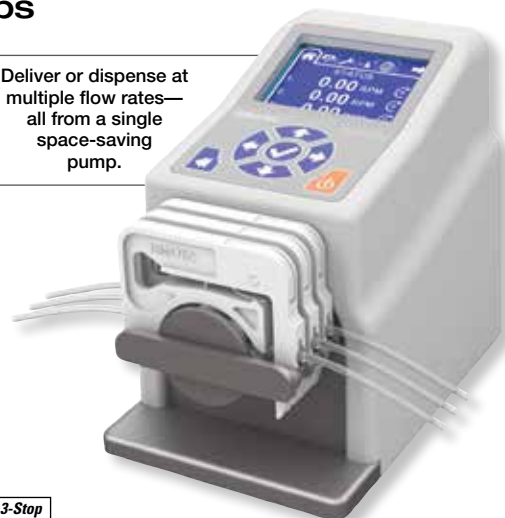
Reglo Independent Channel Control (ICC) Pumps

Pump each channel at different speeds and directions!

- Each pump performs the job of up to four separate pumps
- New!** Additional options in channel and roller configurations allow balanced pulsation control at desired flow rate
- USB interface for quick computer connections using redesigned graphical user-interface

These two-, three- and four-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.

Deliver or dispense at multiple flow rates—all from a single space-saving pump.



Specifications

Speed: 0.1 to 100 rpm **Accuracy:** ±1% **Pressure:** up to 14.5 psi (1.0 bar)

ISO9001:2008
CERTIFIED SUPPLIER



Channels	Rollers	Tubing	Power (VAC, Hz)	Catalog number	Price
Benchtop pumps					
2	6	Three-stop	100 to 240, 50/60	MA-78001-58	
	8			MA-78001-60	
	12			MA-78001-62	
3	6	Three-stop	100 to 240, 50/60	MA-78001-68	
	8			MA-78001-70	
	12			MA-78001-72	
4	6	Three-stop	100 to 240, 50/60	MA-78001-78	
	8			MA-78001-80	
	12			MA-78001-82	
Panel-mount pumps					
2	8	Three-stop	100 to 240, 50/60	MA-78001-43	
3	8			MA-78001-45	
4	8			MA-78001-47	
4	12			MA-78001-49	



Panel mount configuration can install into custom systems.

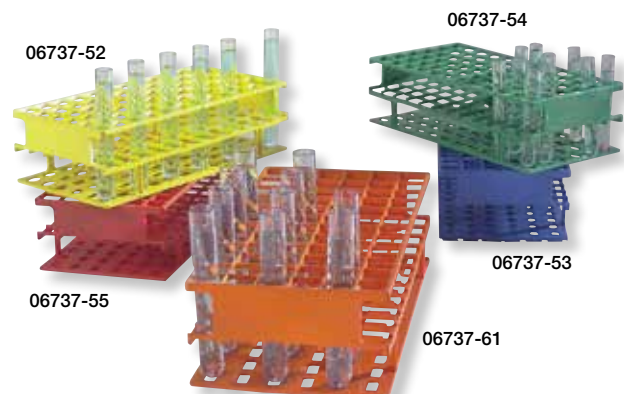
Minicartridges

MA-78016-98 Replacement Click'n'go™ tubing cassette, POM-C
MA-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	MA-06737-50	
13	72 (6 x 12)	Orange	1	MA-06737-51	
13	72 (6 x 12)	Yellow	1	MA-06737-52	
13	72 (6 x 12)	Blue	1	MA-06737-53	
13	72 (6 x 12)	Green	1	MA-06737-54	
13	72 (6 x 12)	Red	1	MA-06737-55	
16	72 (6 x 12)	White	1	MA-06737-60	
16	72 (6 x 12)	Orange	1	MA-06737-61	
16	72 (6 x 12)	Yellow	1	MA-06737-62	
16	72 (6 x 12)	Blue	1	MA-06737-63	
16	72 (6 x 12)	Green	1	MA-06737-64	
16	72 (6 x 12)	Red	1	MA-06737-65	
20	40 (4 x 10)	White	1	MA-06737-70	
25	40 (4 x 10)	White	1	MA-06737-80	
30	24 (3 x 8)	White	1	MA-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	MA-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



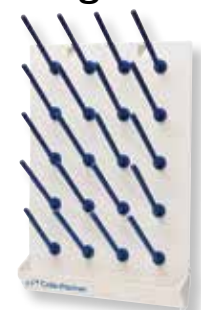
Buy More...Save More!
20% off on 120+ 15% off on 30 to 119 10% off on 6 to 29 packs or cases

Tube size (mm)	Tubes held (array)	Qty/pk	Catalog number	Price/pk
10 to 13	72	1	MA-06737-10	
13 to 16	40	1	MA-06737-15	
16 to 20	40	1	MA-06737-20	
21 to 25	40	1	MA-06737-30	
26 to 30	24	1	MA-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
13 3/4" x 19 1/4" x 2 1/4"	MA-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 9 1/4" x 7 1/2"	MA-06733-91	
2 tier, benchtop			MA-06733-93	
2 tier, wall mount	38	16" x 16 1/4" x 7 1/2"	MA-06733-98	
3 tier, benchtop			MA-06733-94	
3 tier, wall mount	57	16" x 23 3/4" x 7 1/2"	MA-06733-99	
Double-sided drying racks				
1 tier, benchtop	38	16" x 9 1/4" x 10 1/2"	MA-06733-95	
2 tier, benchtop	76	16" x 16 1/4" x 10 1/2"	MA-06733-96	
3 tier, benchtop	114	16" x 23 3/4" x 10 1/2"	MA-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

NEW

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 19⅞" (55 x 58 x 49 cm)	26⅞" x 31⅞" x 34⅞" (68.3 x 79.1 x 87 cm)	1	2	4	120	60	5	253 (115)	MA-52412-00	
							230	50	2.5		MA-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 30⅞" x 59⅞" (67 x 77 x 151.5 cm)	1	3	7	120	60	5	319 (145)	MA-52412-03	
							230	50	2.5		MA-52412-05	
21.3 cu ft (603 L)	2 to 10°C (35.6 to 50°F)	25⅞" x 25¼" x 57⅞" (65 x 64 x 145 cm)	30⅞" x 34⅞" x 77⅞" (77 x 86.5 x 196.5 cm)	1	3	11	120	60	5	495 (224)	MA-52412-06	
							230	50	4		MA-52412-08	
28.4 cu ft (805 L)	2 to 10°C (35.6 to 50°F)	29⅞" x 29⅞" x 57⅞" (75 x 74 x 145 cm)	34⅞" x 37⅞" x 77⅞" (87 x 96.5 x 196.5 cm)	1	3	11	120	60	5	605 (274)	MA-52412-09	
							230	50	4		MA-52412-11	
46.9 cu ft (1327 L)	2 to 10°C (35.6 to 50°F)	56⅞" x 25¼" x 57⅞" (143 x 64 x 145 cm)	61" x 34⅞" x 77⅞" (155 x 86.5 x 196.5 cm)	2	6	22	120	60	10	880 (399)	MA-52412-12	
							230	50	7.5		MA-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

NEW

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)	18⅞" x 45⅞" x 24⅞" (46.5 x 116.5 x 63 cm)	31⅞" x 72⅞" x 35⅞" (81.2 x 184.6 x 89.3 cm)	1 outer, 2 inner	3	115	60	18	612 (277)	MA-44260-03	
						220	50	7.5		MA-44260-01	
17.1 cu ft (486 L)	-86 to -40°C (-122 to -40°F)	23⅞" x 51⅞" x 24⅞" (59 x 131 x 63 cm)	37⅞" x 78" x 35⅞" (94.5 x 198 x 90 cm)	1 outer, 4 inner	3	115	60	18	683 (309)	MA-44260-09	
						220	50	9		MA-44260-04	
20.4 cu ft (578 L)	-86 to -40°C (-122 to -40°F)	24⅞" x 51⅞" x 28⅞" (62 x 131 x 71.6 cm)	35¼" x 78" x 38⅞" (89.5 x 198 x 98 cm)	1 outer, 4 inner	3	115	60	18	727 (329)	MA-44260-13	
						220	50	9		MA-44260-11	
25.7 cu ft (728 L)	-86 to -40°C (-122 to -40°F)	30⅞" x 51⅞" x 28⅞" (76.6 x 131 x 71.6 cm)	40⅞" x 78" x 38⅞" (104.1 x 198 x 98 cm)	1 outer, 4 inner	3	115	60	18	848 (384)	MA-44260-19	
						220	50	9		MA-44260-17	
29.2 cu ft (828 L)	-86 to -40°C (-122 to -40°F)	34¼" x 51⅞" x 28⅞" (87 x 131 x 71.6 cm)	45⅞" x 78" x 38⅞" (114.5 x 198 x 98 cm)	1 outer, 4 inner	3	220	50	9	903 (409)	MA-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

NEW



STERILE

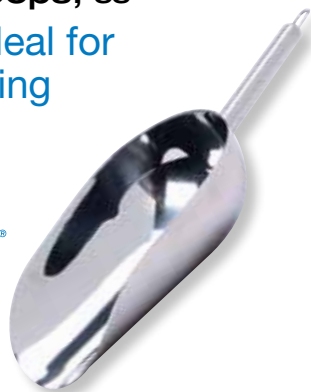
Capacity mL (oz)	Size (L x W)		Handle length		Catalog number	Qty/cs	Price/cs
	in.	cm	in.	cm			
60 (2)	3	20.3	5	12.7	MA-06260-01	100	
120 (4)	3½	22.9	5	12.7	MA-06260-02	100	

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)	MA-07205-01	1	
1550 (52)	10" x 5¾" (25.4 x 14.6 cm)	MA-07205-03 [†]	1	
304 Stainless steel scoop				
1550 (52)	7½" x 5¼" (18.1 x 13.3 cm)	MA-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)	6⅞" (15.5 cm)	MA-06263-10	200	
½ tsp (2.5 mL)	5⅞" (14.9 cm)	MA-06263-20	200	
1 tsp (4.9 mL)	5½" (14.0 cm)	MA-06263-30	200	
1 tbsp (14.8 mL)	5¼" (13.3 cm)	MA-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	MA-06261-00	

*One set qualifies as one pack for discount savings.

Set contains three spoon sizes



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	MA-06260-10	100	
120 (4)	3½ x 1	8.9 x 2.5			MA-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)	MA-06277-00	1	

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 5

Jenway® 74-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!

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



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		Catalog number	Price
			VAC	Hz		
Compact shaker						
8 ² / ₃₂ " x 8 ² / 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	MA-51700-13	
			230	50	MA-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	MA-51700-15	
			230	50	MA-51700-16	

For Compact Shaker

[MA-51700-97](#) Cradle platform with four rubber securing bars

[MA-51700-98](#) Expansion platform with nonslip rubber mat. Holds 8 microwell plates

[MA-51700-99](#) Plastic cover

For Large-Capacity Shaker

[MA-51700-95](#) Cradle platform with six rubber securing bars, measures 20" x 20" (51 x 51 cm). Max speed is 150 rpm

[MA-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		Catalog number	Price
			VAC	Hz		
4	2.2 lb (1 kg)	8 ⁵ / ₈ " x 8 ⁵ / ₈ " (22 x 22 cm)	120	60	MA-51900-57	
			230	50	MA-51900-55	
8	4.4 lb (2 kg)	12 ¹ / ₈ " x 12 ¹ / ₈ " (30.6 x 30.6 cm)	120	60	MA-51900-51	
			230	50	MA-51900-53	

[MA-51900-97](#) Tube holder rack, 50 x 1.5 mL

[MA-51900-98](#) Tube holder rack, 50 x 0.5 mL

[MA-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		230 VAC, 50 Hz	
		Catalog number	Price	Catalog number	Price
Analog tube roller shakers					
Fixed at 33 rpm	6	MA-04750-22		MA-04750-20	
	9	MA-04750-30		MA-04750-28	
Digital tube roller shakers with built-in timer					
Adjustable from 5 to 60 rpm	6	MA-04750-26		MA-04750-24	
	9	MA-04750-34		MA-04750-32	

[MA-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 your 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	—	—	1½" dia pop-off cup	120	60	0.65	MA-04724-10	
600 to 2700 rpm				230	50/60	0.5	MA-04724-15	
Vortex-Genie 2 shaker								
600 to 3200 rpm	—	—	1½" dia pop-off cup, 3" dia platform	120	60	0.65	MA-04724-00	
600 to 2700 rpm				230	50/60	0.5	MA-04724-05	
Vortex-Genie 2T shaker								
600 to 3200 rpm	1 to 60 seconds	1 to 60 minutes	1½" dia pop-off cup, 3" dia platform	120	60	0.65	MA-04724-20	
600 to 2700 rpm				230	50/60	0.5	MA-04724-25	
Digital Vortex-Genie 2 shaker								
500 to 3000 rpm	1 to 99 seconds	1 to 99 minutes	1½" dia pop-off cup, 3" dia platform	120	60	0.65	MA-04724-40	
				230	50/60	0.5	MA-04724-45	
Vortex-Genie Pulse shaker								
500 to 3000 rpm	0.1 sec to 99 minutes	1 to 99 minutes	1½" dia pop-off cup, 3" dia platform	120	60	0.65	MA-04724-38	
				230	50/60	0.5	MA-04724-39	

[MA-04724-61](#) Platform with cover,
3" (7.6-cm) dia

[MA-04724-60](#) Replacement cup for single
tube shaking

[MA-04724-70](#) Thermoplastic rubber cover
protects standard 3" (7.6-cm) platform

[MA-04724-54](#) Small ampule shaker
attachment

[MA-04724-55](#) Large ampule shaker
attachment

[MA-04724-57](#) TurboMix™ shaker
attachment

[MA-04724-63](#) Microtube holder
for 12 x 2-mL tubes

[MA-04724-64](#) Vertical tube holder. Holds
3 x 50-mL tubes

[MA-04724-65](#) Vertical tube holder. Holds
6 x 15-mL tubes

[MA-04724-89](#) Vertical tube holder. Holds 6 x
50-mL, 6 x 15-mL, and 12 microtubes

[MA-04724-66](#) Vertical microtube holder.
Holds 9 microtubes

[MA-04724-67](#) Molded bottom closure
and screw kit

[MA-04724-83](#) Platform, 6" (15.2 cm)

[MA-04724-84](#) Recessed platform

[MA-04724-85](#) Tube insert†, foam;
9–16 mm. Set of 2

[MA-04724-86](#) Tube insert†, foam;
14–29 mm. Set of 2

[MA-04724-87](#) Tube insert†, foam;
29–37 mm. Set of 2

[MA-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).

[MA-04724-80](#) Beaker/tube platform
starter kit

[MA-04724-82](#) Replacement elastic bands†.
Set of 2

[MA-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.

[MA-04724-50](#) Microtube/microwell plate
platform starter kit

[MA-04724-51](#) Replacement micro tube inserts†
hold up to 60 microtubes. Pack of 2

[MA-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 in.	Overall length cm	Qty/ pk	Catalog number	Price/ pk
A. Spooned/flat	5¾	14.6	3	MA-06369-09†	
B. V-shaped/sharpened bent tip	6¼	15.9	3	MA-06369-08	
C. Spooned/plastisol handle	6½	16.5	3	MA-06369-03†	
D. Tapered/rounded	8	20.3	3	MA-06369-06	
E. Rounded/rounded	8¼	21.0	3	MA-06369-05	
F. Tapered/rounded	7½	18.1	3	MA-06369-07	
G. Squared/rounded	7½	19.1	3	MA-06369-18	
H. Spooned/squared	8¾	22.5	3	MA-06369-16	

†Hayman type end

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/ 1 pk
in.	cm			
4½	11.4	MA-06283-10	10	
6½	16.5	MA-06283-20	12	
8	20.3	MA-06283-30	12	

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	MA-06278-15	6	
13½	34.3	MA-06278-25	6	
16½	41.9	MA-06278-35	6	

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



Description	Overall length		Catalog number	Qty/pk	Price/pk
	in.	cm			
A. Blue	8¾	22.2	MA-06265-18	300	
B. Opaque	8¾	22.2	MA-06265-12	300	
C. Opaque, antistatic	5½	14.0	MA-06265-14	300	
D. Green, large	12¼	31.1	MA-06265-16	150	
E. Opaque, sterile	8¾	22.2	MA-06265-20	100	

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



Overall length	Catalog number	Qty/cs	Price/cs
9" (22.9 cm)	MA-06262-00	100	

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



Description	Overall length		Qty/cs	Catalog number	Price/cs
	in.	cm			
A. Tapered blade/spoon	9½	24.6	100	MA-06265-00	
B. Small spoon/spoon	9½	24.6	100	MA-06265-02	
C. Round end/spoon	9½	24.6	100	MA-06265-04	
D. V-scoop/spoon	9½	24.6	100	MA-06265-06	
E. Flat-end/spoon	9½	24.6	100	MA-06265-08	

Jenway® 74-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.

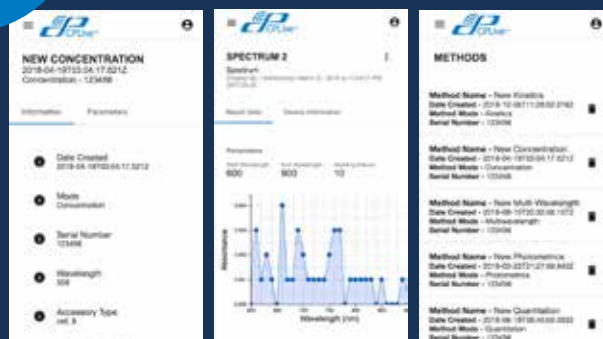


CPLive™ Connectivity

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 wavelength	7415 UV/visible wavelength	7415 Nano UV/visible wavelength
Catalog number	MA-83056-21	MA-83056-22	MA-83056-23
Min sample size	3 mL	3 mL	0.5 µL (at 0.2 mm), 1.0 µL (at 0.5 mm)
Bandwidth	5 nm	5 nm	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 lamp	Xenon lamp	
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

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.



ISO 9001:2008
CERTIFIED SUPPLIER



Bandwidth		20 nm	10 nm
Catalog number		MA-83055-10	MA-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			

MA-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

MA-83055-24 RS-232 cable for model 83055-20. Female 9-pin to female 9-pin

MA-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.



ISO 9001:2008
CERTIFIED SUPPLIER



Power (VAC, Hz)		115, 60	230, 50
Catalog number		MA-83059-10	MA-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			

MA-83057-65 Software, graphics. Standard curve, Abs./%T/Conc., Abs. vs time; for Windows® XP

MA-83057-66 Temperature control system; 115 VAC, 15 to 40°C. With external controller and Peltier 10 mm cell holder

MA-83057-68 Sipper system, 115 VAC. With external controller unit and peristaltic pump; requires flow cell and tubing

MA-83057-74 Sipper system, 230 VAC. With external controller unit and peristaltic pump; requires flow cell and tubing

MA-83057-70 Temperature control/sipper system, 115 VAC. Combines 83057-66 and 83057-68; requires flow cell and tubing

MA-83057-78 Flow cell, glass (visible spectra)

MA-83057-79 Flow cell, quartz (UV spectra)

MA-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	MA-06343-10		MA-06343-15	
Semi-micro	1.5			MA-06343-20		MA-06343-70	
Fluorometry	4.5	4	12.5 x 45 x 12.5	MA-06343-60		MA-06343-80	

MA-06343-31 Cuvette caps, LDPE. Case of 1000

MA-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.

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

StableTemp

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									
4 1/4" x 4 1/4" (10.8 x 10.8 cm)	Ceramic	—	25 lb (11.4 kg)	50 to 1500 rpm	1 L	100 to 120	50/60	MA-03406-01	
						230	50/60	MA-03406-06	
7 1/4" x 7 1/4" (18.4 x 18.4 cm)	Ceramic	—	25 lb (11.4 kg)	50 to 1500 rpm	4 L	100 to 120	50/60	MA-03406-11	
						230	50/60	MA-03406-16	
10 1/4" x 10 1/4" (26 x 26 cm)	Ceramic	—	25 lb (11.4 kg)	50 to 1500 rpm	6 L	100 to 120	50/60	MA-03406-31	
						230	50/60	MA-03406-36	
Stirring hot plates									
4 1/4" x 4 1/4" (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	MA-03407-01	
						230	50/60	MA-03407-06	
7 1/4" x 7 1/4" (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	MA-03407-11	
						230	50/60	MA-03407-16	
10 1/4" x 10 1/4" (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	MA-03407-31	
						230	50/60	MA-03407-36	
Advanced stirrer and stirring hot plate									
7 1/4" x 7 1/4" (18.4 x 18.4 cm)	Ceramic	—	25 lb (11.4 kg)	50 to 1500 rpm	4 L	100 to 120	50/60	MA-03406-41	
						230	50/60	MA-03406-46	
7 1/4" x 7 1/4" (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	MA-03407-41	
						230	50/60	MA-03407-46	

†Based on water contained in a 20-L glass flat-bottom flask.



Accessories

MA-04600-88 Transparent splash shield for 4 1/4" x 4 1/4" units

MA-04600-89 Transparent splash shield for 7 1/4" x 7 1/4" units

MA-04600-90 Transparent splash shield for 10 1/4" x 10 1/4" units

MA-04600-91 External temperature probe, 100 Ω Pt, stainless steel, 32 to 752°F (0 to 400°C)

MA-04600-92 External temperature probe, 1000 Ω Pt, stainless steel, 32 to 752°F (0 to 400°C)

MA-04600-93 External temperature probe, 1000 Ω Pt, Hastelloy®, 32 to 752°F (0 to 400°C)

MA-04600-98 Support rod for securing sample containers

MA-04600-99 Clamp and holder for securing sample containers

Cole-Parmer® Hot Plates and Multiposition Stirrers and Stirring Hot Plates

Reach max temperature in two minutes

- Stir bar won't dance—unique U-shaped magnet holds 900 stir bar tightly
- Front-panel controls are positioned to prevent you from touching the hot plate
- Stepless speed control provides smooth stirring action to 1500 rpm

Cole-Parmer®



Number of stirring positions	Volume per position	Top plate		Heating		Speed range	Power		Catalog number	Price
		Dimensions	Material	Temp range	Max load		VAC	Hz		
Hot plates										
—	—	12" x 12" (30.5 x 30.5 cm)	Ceramic	120 to 842°F (49 to 450°C)	25 lb (11.4 kg)	—	115	60	MA-04801-14	
							230	50	MA-04801-16	
Multiposition stirrers										
5	800 mL	12" x 12" (30.5 x 30.5 cm)	Ceramic	—	—	100 to 1500 rpm	120	60	MA-51450-21	
							230	50	MA-51450-26	
9	400 mL						120	60	MA-51450-23	
		230	50	MA-51450-28						
Multiposition stirring hot plates										
5	800 mL	12" x 12" (30.5 x 30.5 cm)	Ceramic	212 to 845°F (100 to 450°C)	40 lb (18.2 kg)	100 to 1500 rpm	120	60	MA-51450-71	
							230	50	MA-51450-76	
9	400 mL						120	60	MA-51450-73	
		230	50	MA-51450-78						



Mix multiple samples independently

Accessories

MA-17050-04 NIST-traceable calibration with data for stirrers

Cole-Parmer® Stirrers, Hot Plates, and Stirring Hot Plates

Reduce clutter in your workspace
with space-saving design

- Heat one large vessel or several small ones—easily accommodate four 250-mL beakers
- Be safe—flashing light warns when top plate is hot (above 50°C), even when unplugged
- Unique housing allows legs of a support stand to slide underneath
- Choose ceramic top for better chemical resistance and higher temperatures

Analog Stirrers feature powerful magnets and motor to support speeds up to 2000 rpm and large-volume mixing up to 15 L (4 gal.).

Advanced Analog Hot Plates and Stirring Hot Plates feature an innovative LED temperature indicator scale, which lights up in colored increments as the top plate heats up, and shows you when the plate has reached its temperature set point. Use with the optional digital temperature controller to accurately regulate sample temperature.

Advanced Digital Stirring Hot Plates feature an LED display of surface temperature, ensuring high repeatability and accuracy. Compatible with the optional controller for precise sample temperatures.

Optional Digital Temperature Controller can be used in two different modes: as a precise temperature controller from 20 to 200°C or as a digital thermometer from -4 to 325°C. With digital setting and display of temperature, the temperature controller is accurate to $\pm 0.5^\circ\text{C}$.



04801-65



04801-64



Top plate		Temperature range	Stirring		Power		Catalog number	Price
Dimensions	Material		Speed range	Max capacity†	VAC	Hz		
Analog stirrers								
6" x 6" (15 x 15 cm)	Ceramic	—	100 to 2000 rpm	15 L	120	60	MA-04801-50	
	Stainless steel	—			230	50	MA-04801-52	
					120	60	MA-04801-54	
					230	50	MA-04801-56	
Advanced analog hot plates								
6" x 6" (15 x 15 cm)	Ceramic	Ambient to 842°F (450°C)	—	—	120	60	MA-04801-20	
	Coated aluminum	Ambient to 617°F (325°C)			230	50	MA-04801-22	
					120	60	MA-04801-24	
					230	50	MA-04801-26	
Advanced analog stirring hot plates								
6" x 6" (15 x 15 cm)	Ceramic	Ambient to 842°F (450°C)	100 to 2000 rpm	15 L	120	60	MA-04801-60	
	Coated aluminum	Ambient to 617°F (325°C)			230	50	MA-04801-62	
					120	60	MA-04801-65	
					230	50	MA-04801-67	
Advanced digital stirring hot plates								
6" x 6" (15 x 15 cm)	Ceramic	Ambient to 842°F (450°C)	100 to 2000 rpm	15 L	120	60	MA-04801-64	
	Coated aluminum	Ambient to 617°F (325°C)			230	50	MA-04801-66	
					120	60	MA-04801-68	
					230	50	MA-04801-70	

[†]Based on water contained in a 20-L glass flat-bottom flask.

[MA-04801-80](#) Digital temperature controller for advanced models

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



Find even more online!
Go to [ColeParmer.com](#) to search more than 100,000 products.

04770-40

04775-65

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)	—	—	MA-04775-10	
1/2" (12.7 mm)	5/16" (7.9 mm)	MA-08548-00		MA-04770-20	
5/8" (15.9 mm)	5/16" (7.9 mm)	MA-08549-00		MA-04770-30	
1" (25.4 mm)	3/8" (9.5 mm)	MA-08550-00		MA-04770-40	
1 1/2" (38.1 mm)	3/8" (9.5 mm)	MA-08551-00		MA-04770-50	
2" (50.8 mm)	3/8" (9.5 mm)	MA-08552-00		MA-04770-60	
2 1/2" (63.5 mm)	3/8" (9.5 mm)	MA-04775-75		—	—
2 1/2" (63.5 mm)	1/2" (12.7 mm)	—	—	MA-04770-70	
3" (76.2 mm)	1/2" (12.7 mm)	MA-04612-30		MA-04612-40	
Slim-Line stir bars					
1" (25.4 mm)	5/16" (7.9 mm)	MA-04775-45		MA-04775-40	
1 1/2" (38.1 mm)	5/16" (7.9 mm)	MA-04775-55		MA-04775-50	
2" (50.8 mm)	5/16" (7.9 mm)	MA-04775-65		MA-04775-60	

[†]Diameter given does not include the diameter of the spinning ring.

Cole-Parmer® Write-On Colored Tape and Dispenser

Easily identify samples by color-coding

- Withstands water, oil, and acid
- Easy-write surface accommodates pencil, pen, or permanent marker
- Use in temperatures from –10 to 250°F (–23 to 121°C)
- Optional dispenser for easier tearing



Array of colors and sizes fit conveniently in optional dispenser 06530-11

Color	1/2" (1.3 cm) W x 14 yd (13 m) L			3/4" (1.9 cm) W x 14 yd (13 m) L			1" (2.5 cm) W x 14 yd (13 m) L		
	Cat. no.	RI/pk	Price	Cat. no.	RI/pk	Price	Cat. no.	RI/pk	Price
White	MA-06530-21	6		MA-06530-31	4		MA-06530-41	3	
Yellow	MA-06530-22	6		MA-06530-32	4		MA-06530-42	3	
Green	MA-06530-23	6		MA-06530-33	4		MA-06530-43	3	
Pink	MA-06530-24	6		MA-06530-34	4		MA-06530-44	3	
Red	MA-06530-25	6		MA-06530-35	4		MA-06530-45	3	
Orange	MA-06530-26	6		MA-06530-36	4		MA-06530-46	3	
Blue	MA-06530-27	6		MA-06530-37	4		MA-06530-47	3	
Assorted pack†	MA-06530-28	24		MA-06530-38	16		MA-06530-48	12	

†Assorted pack contains each color above.

[MA-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



Color	3/4" (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	MA-86209-30		MA-86209-40	
Yellow	MA-86209-31		MA-86209-41	
Orange	MA-86209-32		MA-86209-42	
Red	MA-86209-33		MA-86209-43	
Green	MA-86209-34		MA-86209-44	
Blue	MA-86209-35		MA-86209-45	
Black	MA-86209-37		MA-86209-47	

[MA-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
1/2" (1.3 cm)	25 ft (7.6 m)	MA-08277-50	
1" (2.5 cm)		MA-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)	MA-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
1/8" (0.3 cm)	2.5	36 ft (10.9 m)	MA-08277-78	
1/4" (0.6 cm)			MA-08277-79	
1/2" (1.3 cm)			MA-08277-80	
3/4" (1.9 cm)	2.5	36 ft (10.9 m)	MA-08277-81	
1" (2.5 cm)			MA-08277-82	
1 1/2" (3.8 cm)			MA-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 a NIST-traceable calibration report with data supplied by InnoCal.

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 a NIST-traceable calibration report with data supplied by InnoCal.

C. Waterproof Thermometer features a dishwasher-safe sealed case. Features °F/°C switchable ranges, a Min/Max button, and display updates every second. Use ON/OFF button to conserve battery life.

D. 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. Use ON/OFF button to conserve battery life.

E. Long-Stem Thermometer has an 8" or 11½" long stem, °F/°C switchable ranges, and display updates every second. Use ON/OFF button to conserve battery life.

F. 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. Use ON/OFF button to conserve battery life.

G. T-Handle Thermometer is designed for penetrating semisolds and features °F/°C switchable ranges. Display updates every second. Use ON/OFF button to conserve battery life or auto shutoff at one hour.

H. Pen-Style Thermometer has °F/°C switchable ranges and display updates every second. Data Hold button freezes readings. Use ON/OFF button to conserve battery life.

I. NIST-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, display that updates every second, and an ON/OFF button to conserve battery life.



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	MA-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 0.16" dia	MA-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	MA-90003-00*	
D	–58 to 302°F (–50 to 150°C)	0.1°F (0.1°C)	±1.8°F (1.0°C)	10" L x 0.14" dia	MA-90205-05	
E	–58 to 302°F (–50 to 150°C)	0.1° from –19 to 199.9°; 1° outside this range	±1.8°F (±1°C)	1" L x 0.14" dia	MA-90205-10	
	–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	MA-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	MA-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	MA-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	MA-90205-02	
F	–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	MA-90205-25	
G	–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	MA-90051-00	
H	–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	MA-90001-02	
I	–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	MA-90205-15	

*90003-00 does not come precalibrated †Basic accuracy shown, full accuracy available online

[MA-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
- Securely 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 strip and magnetic strip for surface mounting, or use the built-in stand on a shelf

NEW



94460-00

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.



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)	MA-99460-00	
1 Bottle and 1 bullet probe				MA-99460-05	
2 Bullet probes				MA-99460-10	
2 Stainless steel probes				MA-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

NEW



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 3/4" 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 1/8" dia.



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	MA-94460-07	
		2 glass bottle probes	MA-94460-09	
		1 vaccine bottle probe	MA-98767-63	
		2 vaccine bottle probes	MA-98767-64	
		1 plastic bottle probe	MA-98767-67	
		2 plastic bottle probes	MA-98767-68	
		1 Bullet probe	MA-94460-11	
		2 Bullet probes	MA-94460-14	
		1 glass bottle, 1 bullet probe	MA-94460-18	
		1 SS probe	MA-94460-16	
-130.00 to 221.00°F (-90.00 to 105.00°C)	±0.36°F (±0.2°C)	2 SS probes	MA-94460-17	
		1 SS probe	MA-98768-53	
-328.00 to 221.00°F (-200.00 to 105.00°C)	±0.45°F (±0.25°C)	2 SS probes	MA-98768-54	
		1 SS probe	MA-98768-57	
		2 SS probes	MA-98768-58	

†All data stored in Celsius (°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

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).

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.



“Great thermometers.”
★★★★★

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)	MA-94460-72	
Refrigerator/freezer	One 5-mL bottle probe					MA-94460-71	
General purpose	One wire probe					MA-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)	MA-94460-92	
General purpose	Two wire probes					MA-94460-91	
General purpose	One solid SS probe					MA-94460-98	
General purpose	Two solid SS probe					MA-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)	MA-94460-07	
Refrigerator/freezer	Two bottle probes					MA-94460-09	
General purpose	One wire probe					MA-94460-11	
General purpose	Two wire probes					MA-94460-14	
General purpose and refrigerator/freezer	One wire and one bottle probe					MA-94460-18	
General purpose	One solid SS probe					MA-94460-16	
General purpose	Two solid SS probes					MA-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)	MA-94460-37	
Refrigerator/freezer	Two bottle probes					MA-94460-39	
General purpose	One wire probe					MA-94460-41	
General purpose	Two wire probes					MA-94460-43	
General purpose and refrigerator/freezer	One wire and one bottle probe					MA-94460-47	
General purpose	One solid SS probe					MA-94460-44	
General purpose	Two solid SS probes					MA-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)	MA-37803-88	
General purpose	One wire probe					MA-37804-03	
General purpose	One wire probe	-148 to 158°F (-100 to 70°C)				MA-37804-05	
General purpose	One solid SS probe	-148 to 199.99°F (-100 to 199.99°C)				MA-37804-04	

Don't Get Burned—Gain More Confidence in Your Readings

- ✓ **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

Precalibration provided by

INNOCAL®

Precalibration | Recalibration | Onsite

866-InnoCal (866-466-6225)

InnoCalSolutions.com

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 miniconnector. 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

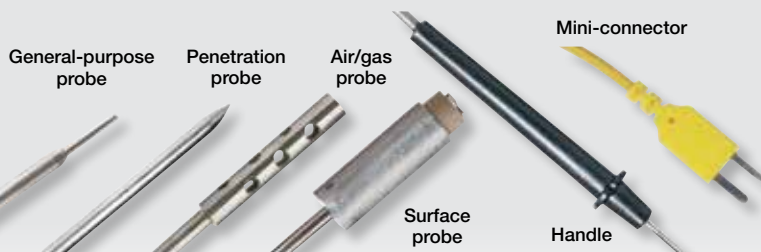


Description	General-purpose thermometers			Professional thermocouple thermometers with IR input			
Catalog number	MA-20250-01	MA-20250-02	MA-20250-03	MA-20250-18	MA-20250-17	MA-20250-19	MA-20250-20
Thermocouple (T/C) inputs	1 (type K or J)	2 (type K or J)	4 (type K or J)	1 (type K)	2 (type K)	2 (type 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)]			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 + 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							

MA-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

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)	MA-08517-55			1400°F (760°C)	MA-08517-65			1000°F (537°C)	MA-08517-75			1200°F (649°C)	MA-08517-60		
K	1652°F (900°C)	MA-08516-55			1652°F (900°C)	MA-08516-65			1000°F (537°C)	MA-08516-75			1200°F (649°C)	MA-08516-60		
T	752°F (400°C)	MA-08500-55			752°F (400°C)	MA-08500-65			1000°F (537°C)	MA-08500-75			650°F (343°C)	MA-08500-60		

US Toll-free: 1-800-323-4340

• Outside the US: 1-847-549-7600

• www.coleparmer.com

Cole-Parmer®

Canada 1-800-363-5900 • India 1-800-266-1244 • UK 0500-345-300

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.



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)	MA-20250-91	
Dual input with data logging			MA-20250-92	
Thermistor meters				
Single input			MA-20250-93	
Dual input with data logging	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	MA-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	MA-20250-95	
Dual input with data logging			MA-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.



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)

Type	Range	Power	Catalog number	Price
J	–310 to 1832°F (–190 to 1000°C)	120/240 VAC, 50/60 Hz	MA-92000-01	
K	–328 to 2502°F (–200 to 1372°C)			
T	–200 to 752°F (–200 to 400°C)			

Accessories

MA-17103-00 NIST-traceable calibration with data for 12-channel scanning thermometers

MA-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.



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°	MA-94460-88	
Refrigerator/freezer	Bottle probe	-58 to 158°F (-50 to 70°C)	0.1°	±0.5°	MA-94460-74	
Refrigerator/freezer	5-mL bottle probe	-58 to 158°F (-50 to 70°C)	0.1°	±0.5°	MA-94460-73	

[MA-09376-00](#) Replacement batteries, AAA. Pack of 12

[MA-17101-61](#) NIST-traceable recalibration with data for digital indicator

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)	MA-91500-04	
52-II	Dual-input (types J, K, T, E)	MA-91500-06	
53-II-B	Data logging single-input (types J, K, T, E, R, S, N)	MA-91500-08	
54-II-B	Data logging dual-input (types J, K, T, E, R, S, N)	MA-91500-10	

Extech® Waterproof Temperature Indicators

Won't fail under occasional splashing

NEW

Model available

- 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	MA-95001-55	MA-95001-56	MA-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	3/4" (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			

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	MA-95001-06	
EA11A	Single-input type K thermocouple thermometer; -58 to 1999.9°F, -50 to 1300°C	MA-95001-05	

Accessories

[MA-95001-80](#) Type K general-purpose temperature probe

[MA-17002-10](#) NIST-traceable calibration with data for thermocouple meter with probe

Digi-Sense® Benchtop Temperature Control Consoles

Direct plug-in of heating or cooling devices

TC9100 Model (Thermocouple)

- 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
- Front panel indicates output and alarm conditions
- Mount to lab frame or grid with built-in support bracket

NEW

Improved design



Specifications

ISO 9001:2008
CERTIFIED SUPPLIER



Input type	Range
J	–190 to 1000°C (–310 to 1832°F)
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)
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)
100 Ω Pt RTD†	–200 to 800°C (–328 to 1472°F)

†For TC9600 model only.

Resolution: 0.1°; 1° above 999.9° and below –99.9°

Alarm output (TC9600 only):

SPT relay rated for 24 VAC, 1 A max

Communication (TC9600): USB

Accuracy: [span equals 540°C (1000°F) min]

Types J, K, T, E, and N: ±0.1% of span

Types B, R, and S: ±0.2% of span

Thermistor: ±0.4% of span

0.5°C (0.7°F)

RTD: ±0.1% of span

TC9600 Data Logging Model (Thermocouple, RTD, Thermistor)

Offers all the features of the TC9100 controller, plus nine-segment ramp and soak profiling for more complex processes, USB computer interface, and free software that features real-time visual of set points and process activity, along with data logging.

- Ramp rate and ramp-and-soak profiling for more complicated 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	MA-89800-11	
	240 VAC	10 A max	240 VAC	MA-89800-12	
TC9600 (thermocouple, thermistor, RTD)	120 VAC	15 A max	120 VAC	MA-89800-13	
	240 VAC	10 A max	240 VAC	MA-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.

[MA-17101-63](#) NIST-traceable calibration with data

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

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). Min/Max/Avg and Hold, temperature differential, high/low alarms, adjustable emissivity, data logging, and more!



Description	General-purpose infrared thermometers			Professional infrared thermometers	
Catalog number	MA-20250-04	MA-20250-05	MA-20250-06	MA-20250-07	MA-20250-08
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)
Resolution	0.1°F/°C	0.1°F/°C below 1000°, 1°F/°C		0.1°F/°C below 1000°, 1°F/°C above 1000°	
Response time	Less than 1 sec	Less than 300 ms		Less than 150 ms	
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			Yes, 100 internal readings	
Power	One 9 V battery			One 9 V battery	
Price					

Digi-Sense™ Traceable® General-Purpose Timers

Track time, maintain accuracy, and save money

A. Four-Channel Large-Display Clock/Timer

- Easy monitoring of four experiments simultaneously
- Channels feature distinct alarms that sound for one minute
- Set up to 100 hours in count up or countdown modes
- Time of day in 12- or 24-hour format

What's included: magnetic clip, stand, and button cell battery.

B. 100-Hour, Triple-Display Clock/Timer

- Know which channel is done with unique tones
- Use as digital clock, timer, or stopwatch
- Easily recall previous time set via memory
- Alarm condition indicated by flashing LCD

What's included: one AAA battery and NIST-traceable calibration report.

C. Jumbo Digit Dual-Channel Clock/Timer

- See time easily—tilts for better viewing
- Use both channels for simultaneous countdown, or time of day with count up timer
- Choose 12- or 14-hour display format
- Alarm sounds at end of cycle and shows elapsed time

What's included: wall-mounting bracket and one AAA battery.

D. Flashing LED Big-Digit Timer

- Never wonder about remaining time again
- Easily view 1"H display across the room
- LED flashes green for last 10 seconds of timer, flashes red when alarm sounds
- Don't annoy others—adjust alarm volume to high, low, or off
- Store three countdown times for easy recall

What's included: magnetic back, flip-open easel stand, spring fastener for clipping, an opening for a lanyard, two AAA batteries, and NIST-traceable calibration report.

E. Triple-Display Clock/Timer

- Get timing faster—recall all channels' settings instantly
- Use as a countdown timer, count up stopwatch, or clock
- Count up to 24 hours, count down to 20 hours
- Displays time elapsed since alarm

What's included: magnetic clip and one AAA battery.

F. Dual-Channel Flashing LED Big-Digit Timer

- Flashing red LED when time is up
- View two timers, each with a distinctive alarm
- Alerts to end time with flashing green LED for the last ten seconds
- Adjust the alarm to the right volume—high, low, and off
- Store three countdown times in memory for easy recall

What's included: two AAA batteries and NIST-traceable calibration report.



A



B



C



D



E



F



Key	A	B	C	D	E	F
Number of channels	Four	Three	Two	One	Three	Two
Timing capacity	100 hours	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	1 sec
Accuracy	±0.01%	±0.001%	±0.01%	±0.01%	±0.01%	±0.01%
Count direction	Up/down	Up/down	Up/down	Down	Up/down	Up/down
Display	LCD, 3/4"H	LCD, 3/4"H	Dual LCD, 1"H	LCD, 1"H	Triple LCD, 7/8"H	LCD, 5/8"H
Clock	Yes	Yes	Yes	No	Yes	No
Alarm	1 min beep	1 min beep and visual	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	One AAA battery	Two AAA battery	One AAA battery	Two AAA battery
Catalog number (timer)	MA-08649-10	MA-94411-10	MA-94440-10	MA-94461-15	MA-94440-00	MA-94461-16
Price/ea*						
Catalog number (battery)	MA-09377-16	MA-09376-00	MA-09376-00	MA-09376-00	MA-09376-00	MA-09376-00
Price/pk	pk of 6	pk of 12	pk of 12	pk of 12	pk of 12	pk of 12

*Discounts: Save 10% on 10–24 timers and 20% on 25+ timers.

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"	MA-07288-04	12	

SS Straight: Thick, Flat Strong Tips,
serrated tips and grips. Style OOD.



Length	Catalog number	Qty/ pk	Price/pk
4 3/4"	MA-07287-03	1	

SS Self-Locking Tweezers,
straight narrow tips.



Length	Catalog number	Qty/ pk	Price/pk
4 1/4"	MA-07288-01	12	

SS Tweezers,
smooth spade tips.



Length	Catalog number	Qty/ pk	Price/pk
4 1/4"	MA-07288-07	12	

SS Solder Utility Tweezers,
curved tips and finger serrations.



Length	Catalog number	Qty/ pk	Price/pk
7"	MA-07288-03	12	

SS Tweezers,
curved serrated tips.



Length	Catalog number	Qty/ pk	Price/pk
4 1/4"	MA-07288-05	12	

SS Forceps,
straight serrated tips.



Length	Catalog number	Qty/ pk	Price/pk
6"	MA-07288-12	1	
12"	MA-07288-14	1	

SS Forceps,
plastic-coated rounded tips.



Length	Catalog number	Qty/ pk	Price/pk
12"	MA-07288-10	1	

PTFE-Covered Nickel-Plated Forged Steel Forceps are heat and chemical resistant. **Autoclavable.**



Length	Catalog number	Qty/ pk	Price/pk*
4 1/4"	MA-06440-00	2	

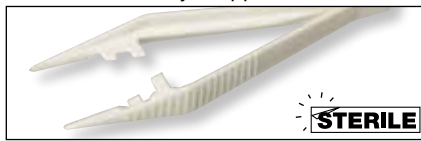
*Quantity discount does not apply.

Reinforced Nylon Forceps have corrugated handles, serrated blades, and rounded tips. **Autoclavable.** Sterile—individually wrapped.



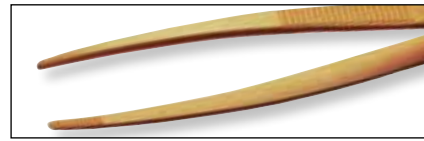
Sterile	Length	Catalog number	Qty/ pk	Price/pk
No	4 7/8"	MA-06443-15	100	
Yes	4 7/8"	MA-06443-26	100	

Nylon Forceps feature corrugated handles and serrated blades. **Autoclavable.** Sterile—individually wrapped.



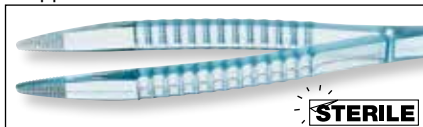
Sterile	Length	Catalog number	Qty/ pk	Price/pk
No	4 1/4"	MA-06443-25	100	
Yes	4 1/4"	MA-06443-27	70	

PA (Polyamide) Tweezers,
rounded tips.



Length	Catalog number	Qty/ pk	Price/pk
7"	MA-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*
4 7/8"	MA-06443-20	100	

*Quantity discount does not apply.

Plastic Curved: Smooth Rounded Tips 2AB



Length	Catalog number	Qty/ pk	Price/pk
4 1/2"	MA-07290-06	12	

Plastic Curved: Very Fine and Smooth Tips 7-STD



Length	Catalog number	Qty/ pk	Price/pk
4 1/2"	MA-07290-08	12	

You're Out? We're Not!

Thousands of **highlighted** items



Chemical-Resistant Trays and Pans

Resist mild acids, alkalis, and reagents

- Withstand temperatures from -40 to 250°F (-40 to 121°C)
- Contain spills with straight-edge pans



Outside dimensions (L x W x H)	Cat. no.	Qty/pk	Price/pk
Chemical-resistant trays			
13 1/4" x 10 5/8" x 1" (33.7 x 26.9 x 2.5 cm)	MA-06715-80	1	
18" x 14" x 1" (45.7 x 35.6 x 2.5 cm)	MA-06715-82	1	
20 3/8" x 15 1/8" x 1" (52 x 38.3 x 2.5 cm)	MA-06715-84	1	
Chemical-resistant pans			
25 1/4" x 19 1/4" x 1 1/8" (64.1 x 48.9 x 2.7 cm)	MA-06715-86	1	
19 1/2" x 19 1/2" x 1 1/4" (49.5 x 49.5 x 3.2 cm)	MA-06715-88	1	
31" x 25" x 2 3/4" (78.7 x 63.5 x 7 cm)	MA-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)	MA-06710-70	
14 (14)	20" x 15" x 3" (50.8 x 38.1 x 7.6 cm)	MA-06710-74	
21 (21)	18" x 18" x 4" (45.7 x 45.7 x 10.2 cm)	MA-06710-75	
25 (25)	16" x 12" x 8" (40.6 x 30.5 x 20.3 cm)	MA-06710-72	
37 (37)	26" x 22" x 4" (66.0 x 55.9 x 10.2 cm)	MA-06710-78	
39 (39)	20" x 20" x 6" (50.8 x 50.8 x 15.2 cm)	MA-06710-76	

Thermo Scientific™ Nalgene™ Trays, PP

Get a grip with molded-in handles

- Easy nesting, tapered design
- Autoclavable



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Capacity L (qt)	Outside dimensions (L x W x H)	Catalog number	Qty/pk	Price/pk
10 (10)	14 1/4" x 12 1/4" x 5 5/8" (36.2 x 31.1 x 14.3 cm)	MA-06018-10	1	
15 (15)	21 3/8" x 17 1/8" x 5 1/8" (54.3 x 43.5 x 13 cm)	MA-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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Capacity (mL)	Dimensions (L x W x H)	Catalog number	Qty/cs	Price/cs
5	1 1/2" x 1 1/4" x 1/4" (3.8 x 3.2 x 0.6 cm)	MA-17826-00	1	
13	2 3/8" x 1 1/2" x 1/4" (6 x 3.8 x 0.6 cm)	MA-17826-02		
32	3" x 2" x 1/2" (7.5 x 5 x 1.2 cm)	MA-17826-04		
64	4" x 1 3/4" x 3/4" (10.2 x 4.5 x 1.9 cm)	MA-17826-06	1	
130	6" x 2 1/2" x 3/4" (15.2 x 6.5 x 1.9 cm)	MA-17826-08		
340	7 7/8" x 3 1/2" x 1" (20 x 9 x 2.5 cm)	MA-17826-10		
750	7 7/8" x 5 1/2" x 1 1/4" (19.4 x 14 x 4.4 cm)	MA-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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Capacity L (qt)	Outside dimensions (L x W x H)	Catalog number	Qty/pk	Price/pk
7 (7)	17 3/4" x 14" x 4" (45.1 x 35.6 x 10.2 cm)	MA-06710-10†	1	
15 (15)	17 1/2" x 15 1/2" x 4" (44.5 x 39.4 x 10.2 cm)	MA-06710-20		
19 (19)	17 1/2" x 15 1/2" x 5" (44.5 x 39.4 x 12.7 cm)	MA-06710-30		
20 (20)	23" x 19" x 4" (58.4 x 48.3 x 10.2 cm)	MA-06710-40	1	
32 (32)	29 1/4" x 23 1/4" x 4" (74.3 x 59.1 x 10.2 cm)	MA-06710-50‡		

†Model 06710-10 has rolled lip all around, single-molded construction.

‡Model 06710-50 is made of LLDPE.

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product specs
you need!

Cole-Parmer® Silicone Tubing

No need to worry about the heat—
use for applications up to 460°F

Peroxide Silicone



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.

Platinum Silicone



Applications: Pharmaceutical, biotechnology, aerospace, food and beverage, and general lab applications.

Characteristics: Platinum-cured, excellent heat resistance, low compression set, odorless, nontoxic, translucent.

Certifications: Elastomer is FDA-compliant (21 CFR 177.2600) and meets USP Class VI. Tubing is manufactured according to GMP.

Temperature range: -58 to 446°F (-50 to 230°C)

Sterilize: Autoclave or gamma irradiation.

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10% off on 4 to 9 packs

Cole-Parmer®

Dimensions: in. (mm)			Max psi at 70°F (21°C)	Peroxide silicone		Platinum silicone	
ID	OD	Wall		Catalog number	Price/ 25-ft pk	Catalog number	Price/ 25-ft pk
1/50 (0.5)	1/12 (2.1)	1/32 (0.8)	30	MA-06411-59		MA-95802-00	
1/32 (0.8)	3/32 (2.4)	1/32 (0.8)	30	MA-06411-60		MA-95802-01	
1/16 (1.6)	1/8 (3.2)	1/32 (0.8)	15	MA-06411-62		MA-95802-02	
3/32 (2.4)	5/32 (4.0)	1/32 (0.8)	15	MA-06411-63		MA-95802-03	
1/8 (3.2)	3/16 (4.8)	1/32 (0.8)	10	MA-06411-64		MA-95802-04	
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	20	MA-06411-67		MA-95802-05	
1/8 (3.2)	3/8 (9.6)	1/8 (3.2)	25	MA-06411-68		MA-95802-06	
5/32 (4.0)	5/32 (4.0)	1/32 (0.8)	10	MA-06411-65		MA-95802-07	
3/16 (4.8)	1/4 (6.4)	1/32 (0.8)	9	MA-06411-66		MA-95802-08	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	13	MA-06411-03		MA-95802-09	
3/16 (4.8)	7/16 (11.2)	1/8 (3.2)	22	MA-06411-69		MA-95802-10	
1/4 (6.4)	5/16 (8.0)	1/32 (0.8)	9	MA-06411-70		MA-95802-11	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	10	MA-06411-71		MA-95802-12	
1/4 (6.4)	7/16 (11.2)	3/32 (2.4)	17	MA-06411-72		MA-95802-13	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	17	MA-06411-74		MA-95802-14	
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	10	MA-06411-75		MA-95802-15	
5/16 (8.0)	1/2 (12.8)	3/32 (2.4)	16	MA-06411-76		MA-95802-16	
5/16 (8.0)	9/16 (14.4)	1/8 (3.2)	20	MA-06411-77		MA-95802-17	
3/8 (9.6)	1/2 (12.8)	1/16 (1.6)	10	MA-06411-12		MA-95802-18	
3/8 (9.6)	9/16 (14.4)	3/32 (2.4)	12	MA-06411-78		MA-95802-19	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	15	MA-06411-79		MA-95802-20	
1/2 (12.8)	5/8 (16.0)	1/16 (1.6)	9	MA-06411-80		MA-95802-21	
1/2 (12.8)	11/16 (17.6)	3/32 (2.4)	10	MA-06411-19		MA-95802-22	
1/2 (12.8)	3/4 (19.2)	1/8 (3.2)	12	MA-06411-55		MA-95802-23	
5/8 (16.0)	13/16 (20.8)	3/32 (2.4)	10	MA-06411-82		MA-95802-24	
5/8 (16.0)	7/8 (22.4)	1/8 (3.2)	12	MA-06411-58		MA-95802-25	
3/4 (19.2)	1 (25.4)	1/8 (3.2)	9	MA-06411-83		MA-95802-26	

DON'T RISK IT!

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



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)	MA-95702-00	
1/16 (1.6)	1/8 (3.2)	1/32 (0.8)	10 (0.7)	MA-95702-01	
1/16 (1.6)	3/16 (4.8)	1/16 (1.6)	15 (1.0)	MA-95702-02	
3/32 (2.4)	5/32 (4.0)	1/32 (0.8)	7 (0.5)	MA-95702-03	
3/32 (2.4)	7/32 (5.6)	1/16 (1.6)	12 (0.8)	MA-95702-04	
1/8 (3.2)	3/16 (4.8)	1/32 (0.8)	7 (0.5)	MA-95702-05	
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	9 (0.6)	MA-95702-06	
3/16 (4.8)	1/4 (6.4)	1/32 (0.8)	5 (0.3)	MA-95702-08	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	7 (0.5)	MA-95702-09	
3/16 (4.8)	3/8 (9.6)	3/32 (2.4)	9 (0.6)	MA-95702-10	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	5 (0.3)	MA-95702-13	
1/4 (6.4)	7/16 (11.2)	3/32 (2.4)	7 (0.5)	MA-95702-14	
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	5 (0.3)	MA-95702-16	
5/16 (8.0)	1/2 (12.8)	3/32 (2.4)	6 (0.4)	MA-95702-17	
3/8 (9.6)	1/2 (12.8)	1/16 (1.6)	4 (0.3)	MA-95702-18	
3/8 (9.6)	9/16 (14.4)	3/32 (2.4)	5 (0.3)	MA-95702-19	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	7 (0.5)	MA-95702-20	

Benchtop Tubing Cutter

Steel blade makes right-angle cuts in plastic tubing 1/16" to 5/8" OD.



Description	Catalog number	Price
Benchtop cutter	MA-06438-10	
Replacement blade	MA-06438-11	

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.





Dow Corning® Pharma-50 Tubing

No organic additives and low extractables



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.

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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/ 50-ft pk
ID	OD	Wall			
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	21 (1.4)	MA-96105-00	
3/16 (4.8)	3/8 (9.6)	3/32 (2.4)	16 (1.1)	MA-96105-02	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	12 (0.8)	MA-96105-03	
1/4 (6.4)	7/16 (11.1)	3/32 (2.4)	17 (1.2)	MA-96105-04	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	17 (1.2)	MA-96105-05	
5/16 (8.0)	1/2 (12.8)	1/8 (3.0)	16 (1.1)	MA-96105-06	
3/8 (9.6)	9/16 (14.3)	3/32 (2.4)	13 (0.9)	MA-96105-08	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	14 (1.0)	MA-96105-09	
1/2 (12.8)	3/4 (19.1)	1/8 (3.2)	10 (0.7)	MA-96105-11	
5/8 (16.0)	7/8 (22.2)	1/8 (3.2)	9 (0.6)	MA-96105-12	

Silastic® Laboratory Tubing

Resists bacteria and fungus growth



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.

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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)	MA-96115-00	
0.02 (0.5)	0.037 (0.9)	0.0085 (0.22)	MA-96115-02	
0.025 (0.6)	0.047 (1.2)	0.011 (0.3)	MA-96115-04	
0.03 (0.8)	0.065 (1.7)	0.0175 (0.4)	MA-96115-06	
0.04 (1)	0.085 (2.2)	0.0225 (0.6)	MA-96115-08	
0.058 (1.5)	0.077 (2.0)	0.0095 (0.2)	MA-96115-10	
0.062 (1.6)	0.095 (2.4)	0.0165 (0.4)	MA-96115-12	
0.062 (1.6)	0.125 (3.2)	0.0315 (0.8)	MA-96115-14	
0.078 (2)	0.125 (3.2)	0.0235 (0.6)	MA-96115-16	
0.104 (2.6)	0.192 (4.9)	0.044 (1.1)	MA-96115-18	
0.132 (3.4)	0.183 (4.6)	0.0255 (0.6)	MA-96115-20	
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	MA-96115-22	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	MA-96115-24	
3/16 (4.8)	3/8 (9.5)	3/32 (2.4)	MA-96115-26	
1/4 (6.4)	3/8 (9.5)	1/16 (1.6)	MA-96115-28	
1/4 (6.4)	7/16 (11.2)	3/32 (2.4)	MA-96115-30	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	MA-96115-32	
5/16 (8.0)	1/2 (12.8)	3/32 (2.4)	MA-96115-34	
3/8 (9.5)	5/8 (15.9)	1/8 (3.2)	MA-96115-40	
1/2 (12.8)	3/4 (19.1)	1/8 (3.2)	MA-96115-44	

Cole-Parmer® Platinum-Cured Reinforced Silicone Tubing

Withstands pressures to 312 psi



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.

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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)	Qty/pk	Catalog number	Price/pk
ID	OD	Wall				
3/16 (4.8)	7/16 (11.2)	1/8 (3.2)	312 (21.5)	50 ft	MA-95703-00	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	248 (17.1)	50 ft	MA-95703-01	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	180 (12.4)	50 ft	MA-95703-02	
1/2 (12.8)	13/16 (20.8)	5/32 (4.0)	168 (11.6)	50 ft	MA-95703-03	
5/8 (16.0)	15/16 (24.0)	5/32 (4.0)	144 (9.9)	50 ft	MA-95703-04	
3/4 (19.1)	1 1/8 (28.6)	3/16 (4.8)	144 (9.9)	50 ft	MA-95703-05	
1 1/4 (31.8)	1 5/8 (41.4)	3/16 (4.8)	96 (6.6)	25 ft	MA-95703-07	

Find even more online!

Go to ColeParmer.com to see full product details.

Cole-Parmer® Vinyl Tubing

Ideal for general-purpose applications



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)	MA-06405-01	50	
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	59 (4.0)	MA-06405-02	50	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	51 (3.5)	MA-06405-03	50	
3/16 (4.8)	7/16 (11.2)	1/8 (3.2)	46 (3.2)	MA-06405-04	100	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	51 (3.5)	MA-06405-06	50	
1/4 (6.4)	7/16 (11.2)	3/32 (2.4)	55 (3.8)	MA-06405-07	100	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	64 (4.4)	MA-06405-08	50	
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	46 (3.2)	MA-06405-09	50	
5/16 (8.0)	1/2 (12.8)	3/32 (2.4)	55 (3.8)	MA-06405-10	100	
3/8 (9.6)	1/2 (12.8)	1/16 (1.6)	41 (2.8)	MA-06405-12	50	
3/8 (9.6)	9/16 (14.4)	3/32 (2.4)	46 (3.2)	MA-06405-15	100	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	55 (3.8)	MA-06405-16	100	
1/2 (12.8)	5/8 (16.0)	1/16 (1.6)	28 (1.9)	MA-06405-18	50	
1/2 (12.8)	11/16 (17.6)	3/32 (2.4)	36 (2.5)	MA-06405-19	100	
1/2 (12.8)	3/4 (19.1)	1/8 (3.2)	41 (2.8)	MA-06405-20	50	
5/8 (16.0)	13/16 (20.8)	3/32 (2.4)	32 (2.2)	MA-06405-25	100	
5/8 (16.0)	7/8 (22.4)	1/8 (3.2)	36 (2.5)	MA-06405-27	50	
3/4 (19.1)	1 (25.4)	1/8 (3.2)	32 (2.2)	MA-06405-31	50	
1 (25.4)	1 1/4 (31.8)	1/8 (3.2)	23 (1.6)	MA-06405-36	50	
1 1/4 (31.8)	1 3/4 (44.5)	1/4 (6.4)	41 (2.8)	MA-06405-46	50	

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.

Buy More...Save More!
20% off on 20+ 15% off on 10 to 19 10% off on 4 to 9 packs

Cole-Parmer®

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)	MA-96605-01	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	55 (3.8)	MA-96605-02	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	55 (3.8)	MA-96605-03	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	70 (4.8)	MA-96605-05	
3/16 (4.8)	7/16 (11.2)	1/16 (1.6)	50 (3.4)	MA-96605-06	
3/8 (9.6)	1/2 (12.8)	1/16 (1.6)	40 (2.8)	MA-96605-08	
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	65 (4.5)	MA-96605-10	
1/2 (12.8)	5/8 (16.0)	1/16 (1.6)	30 (2.1)	MA-96605-11	
1/2 (12.8)	3/4 (19.1)	1/8 (3.2)	45 (3.1)	MA-96605-13	
5/8 (16.0)	7/8 (22.4)	1/8 (3.2)	40 (2.8)	MA-96605-15	
3/4 (19.1)	1 (25.4)	1/8 (3.2)	35 (2.4)	MA-96605-16	
1 (25.4)	1 1/4 (31.8)	1/8 (3.2)	28 (1.9)	MA-96605-19	
1 1/4 (31.8)	1 3/4 (44.5)	1/4 (6.4)	45 (3.1)	MA-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.



MA-06833-01 Mini tubing clamp. Pack of 25

MA-06833-00 Tubing clamp. Pack of 25

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.

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)	MA-06424-59	30		MA-06422-00	50		—	—	—
1/32 (0.8)	3/32 (2.4)	1/32 (0.8)	MA-06424-60	31		MA-06422-01	51		—	—	—
1/16 (1.6)	1/8 (3.2)	1/32 (0.8)	MA-06424-62	15		MA-06422-02	25		—	—	—
3/32 (2.4)	5/32 (4.0)	1/32 (0.8)	MA-06424-63	14		MA-06422-03	23		—	—	—
1/8 (3.2)	3/16 (4.8)	1/32 (0.8)	MA-06424-64	10		MA-06422-04	17		—	—	—
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	MA-06424-67	21		MA-06422-05	35		MA-06432-50	35	—
5/32 (4.0)	7/32 (5.6)	1/32 (0.8)	MA-06424-65	10		MA-06422-06	17		—	—	—
3/16 (4.8)	1/4 (6.4)	1/32 (0.8)	MA-06424-66	9		MA-06422-07	15		—	—	—
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	MA-06424-03	13		MA-06422-08	22		MA-06432-51	22	—
3/16 (4.8)	7/16 (11.2)	1/8 (3.2)	MA-06424-69	22		MA-06422-09	36		—	—	—
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	MA-06424-71	12		MA-06422-10	20		MA-06432-53	20	—
1/4 (6.4)	7/16 (11.2)	3/32 (2.4)	MA-06424-72	17		MA-06422-11	28		MA-06432-54	28	—
1/4 (6.4)	1/2 (12.7)	1/8 (3.2)	MA-06424-74	17		MA-06422-12	28		MA-06432-55	28	—
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	MA-06424-75	10		MA-06422-13	17		—	—	—
5/16 (8.0)	1/2 (12.7)	3/32 (2.4)	MA-06424-76	16		MA-06422-14	27		MA-06432-56	27	—
3/8 (9.6)	1/2 (12.7)	1/16 (1.6)	MA-06424-12	10		MA-06422-15	17		MA-06432-57	17	—
3/8 (9.6)	5/8 (16.0)	1/8 (3.2)	MA-06424-79	14		MA-06422-16	23		MA-06432-59	23	—
1/2 (12.7)	1 1/16 (17.6)	3/32 (2.4)	MA-06424-19	10		MA-06422-17	17		MA-06432-60	17	—
1/2 (12.7)	3/4 (19.1)	1/8 (3.2)	MA-06424-81	10		MA-06422-18	17		MA-06432-61	17	—

Cole-Parmer® FEP Tubing

Does not deteriorate with age



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.

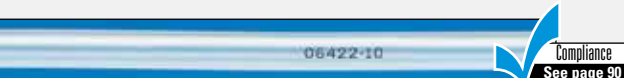
Temperature range: -454 to 400°F (-270 to 205°C)

Sterilize: Autoclave, ethylene oxide, or dry heat.

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Cole-Parmer®

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)	MA-06406-60	
1/16 (1.6)	1/8 (3.2)	1/32 (0.8)	444 (30.6)	MA-06406-62	
3/32 (2.4)	5/32 (4.0)	1/32 (0.8)	353 (24.3)	MA-06406-63	
1/8 (3.2)	3/16 (4.8)	1/32 (0.8)	289 (19.9)	MA-06406-64	
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	450 (31.0)	MA-06450-05	
5/32 (4.0)	1/4 (6.4)	3/64 (1.2)	329 (22.7)	MA-06450-04	
3/16 (4.8)	1/4 (6.4)	1/32 (0.8)	209 (14.4)	MA-06406-66	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	353 (24.3)	MA-06450-06	
1/4 (6.4)	5/16 (8.0)	1/32 (0.8)	150 (10.3)	MA-06406-72	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	288 (19.9)	MA-06450-07	
19/64 (7.5)	3/8 (9.6)	5/128 (1.0)	172 (11.9)	MA-06450-02	
5/16 (8.0)	3/8 (9.6)	1/32 (0.8)	140 (9.7)	MA-06406-74	
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	243 (16.8)	MA-06450-08	
3/8 (9.6)	7/16 (11.2)	1/32 (0.8)	110 (7.6)	MA-06406-12	
3/8 (9.6)	1/2 (12.8)	1/16 (1.6)	210 (14.5)	MA-06450-09	
7/16 (11.1)	1/2 (12.8)	1/32 (0.8)	102 (7.0)	MA-06406-76	
7/16 (11.1)	9/16 (14.3)	1/16 (1.6)	185 (12.8)	MA-06450-14	
1/2 (12.8)	9/16 (14.3)	1/32 (0.8)	88 (6.1)	MA-06406-18	
1/2 (12.8)	5/8 (16.0)	1/16 (1.6)	165 (11.4)	MA-06450-15	
5/8 (16.0)	1 1/16 (17.5)	1/32 (0.8)	71 (4.9)	MA-06450-00	
5/8 (16.0)	3/4 (19.2)	1/16 (1.6)	135 (9.3)	MA-06450-17	
1 1/16 (17.5)	3/4 (19.1)	1/32 (0.8)	65 (4.5)	MA-06450-01	
3/4 (19.2)	7/8 (22.2)	1/16 (1.6)	115 (7.9)	MA-06450-19	



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.

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20% off on 20+ 15% off on 10 to 19 10% off on 4 to 9 packs



Tygon® Non-DEHP Lab Tubing

Pliable formulation for sharp radius bending



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)	MA-06407-70	
1/16 (1.6)	1/8 (3.2)	1/32 (0.8)	36 (2.5)	MA-06407-71	
1/16 (1.6)	3/16 (4.8)	1/16 (1.6)	69 (4.8)	MA-06407-72	
3/32 (2.4)	5/32 (4.0)	1/32 (0.8)	25 (1.7)	MA-06407-73	
1/8 (3.2)	3/16 (4.8)	1/32 (0.8)	20 (1.4)	MA-06407-75	
1/8 (3.2)	1/4 (6.4)	1/16 (1.6)	36 (2.5)	MA-06407-76	
5/32 (4.0)	7/32 (5.6)	1/32 (0.8)	17 (1.2)	MA-06407-77	
3/16 (4.8)	5/16 (8.0)	1/16 (1.6)	25 (1.7)	MA-06407-78	
3/16 (4.8)	3/8 (9.6)	3/32 (2.4)	36 (2.5)	MA-06407-79	
1/4 (6.4)	3/8 (9.6)	1/16 (1.6)	20 (1.4)	MA-06407-80	
1/4 (6.4)	7/16 (11.2)	3/32 (2.4)	28 (1.9)	MA-06407-81	
1/4 (6.4)	1/2 (12.8)	1/8 (3.2)	35 (2.5)	MA-06407-82	
5/16 (8.0)	7/16 (11.2)	1/16 (1.6)	17 (1.2)	MA-06407-83	
5/16 (8.0)	1/2 (12.8)	3/32 (2.4)	23 (1.6)	MA-06407-84	
5/16 (8.0)	9/16 (14.4)	1/8 (3.2)	30 (2.1)	MA-06407-85	
3/8 (9.6)	1/2 (12.8)	1/16 (1.6)	14 (1.0)	MA-06407-86	
3/8 (9.6)	5/8 (16.0)	3/32 (2.4)	20 (1.4)	MA-06407-87	
3/8 (9.6)	3/4 (19.1)	1/8 (3.2)	25 (1.7)	MA-06407-88	
7/16 (11.2)	1/2 (12.8)	1/16 (1.6)	13 (0.9)	MA-06407-89	
1/2 (12.8)	5/8 (16.0)	1/16 (1.6)	12 (1.8)	MA-06407-90	
1/2 (12.8)	11/16 (1.6)	3/32 (2.4)	15 (1.0)	MA-06407-91	
1/2 (12.8)	3/4 (19.1)	1/8 (3.2)	20 (1.4)	MA-06407-92	
1/2 (12.8)	13/16 (20.8)	5/32 (4.0)	24 (1.7)	MA-06407-93	
5/8 (16.0)	13/16 (20.8)	3/32 (2.4)	13 (0.9)	MA-06407-94	
5/8 (16.0)	7/16 (11.2)	1/8 (3.2)	17 (1.2)	MA-06407-95	
3/4 (19.1)	1 (25.4)	1/8 (3.2)	14 (1.0)	MA-06407-96	
3/4 (19.1)	1 1/8 (28.6)	3/16 (4.8)	20 (1.4)	MA-06407-97	
1 (25.4)	1 1/4 (31.8)	1/8 (3.2)	12 (0.8)	MA-06407-98	
1 (25.4)	1 1/2 (38.1)	1/4 (6.4)	20 (1.4)	MA-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	MA-06460-10	
0.010 (0.25)	0.082 (2.08)	0.036 (0.91)	30	MA-06460-12	
0.017 (0.44)	0.093 (2.36)	0.036 (0.91)	26	MA-06460-16	
0.020 (0.51)	0.096 (2.44)	0.036 (0.91)	24	MA-06460-18	
0.025 (0.64)	0.101 (2.57)	0.036 (0.91)	23	MA-06460-22	
0.035 (0.89)	0.111 (2.82)	0.036 (0.91)	20	MA-06460-26	
0.040 (1.02)	0.116 (2.95)	0.036 (0.91)	19	MA-06460-28	
0.045 (1.14)	0.121 (3.07)	0.036 (0.91)	18	MA-06460-30	
0.056 (1.42)	0.132 (3.35)	0.036 (0.91)	17	MA-06460-34	
0.081 (2.06)	0.157 (3.99)	0.036 (0.91)	14	MA-06460-42	
0.110 (2.79)	0.186 (4.72)	0.036 (0.91)	12	MA-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	MA-06438-90	
Tubing cutter pouch	MA-06438-81	
Replacement blade	MA-06438-92	

Tubing Accessories

Benchtop Tubing Cutter

Steel blade makes right-angle cuts in plastic tubing 1/16" to 5/8" OD.



[MA-06438-10](#) Benchtop cutter

[MA-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"	MA-06403-11	
11/16"	1 1/4"	MA-06403-12	
13/16"	1 3/4"	MA-06403-13	
1 1/16"	2"	MA-06403-14	
1 5/16"	2 1/4"	MA-06403-15	
2"	2 3/4"	MA-06403-16	
2 3/4"	3 1/2"	MA-06403-21	
3 1/2"	4 3/8"	MA-06403-22	
4 3/8"	5 1/8"	MA-06403-23	
5 1/8"	5 7/8"	MA-06403-24	
5 1/2"	6 1/4"	MA-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.



Inside diameter				Catalog number	Qty/pk	Price/ pk**
Decimal inches		Millimeters				
Min	Max	Min	Max			
0.228	0.256	5.8	6.5	MA-06832-01	100	
0.269	0.291	6.8	7.4	MA-95614-00	100	
0.307	0.342	7.8	8.7	MA-06832-03	100	
0.351	0.394	8.9	10.0	MA-06832-02	100	
0.387	0.440	9.8	11.2	MA-95614-01	100	
0.404	0.452	10.3	11.5	MA-06832-04	100	
0.449	0.511	11.4	13.0	MA-06832-06	100	
0.513	0.586	13.0	14.9	MA-06832-08	100	
0.569	0.650	14.5	16.5	MA-06832-10	100	
0.616	0.707	15.7	18.0	MA-06832-12	100	
0.702	0.801	17.8	20.4	MA-06832-14	100	
0.759	0.848	19.3	21.5	MA-06832-16	100	
0.779	0.899	19.8	22.8	MA-06832-18	100	
0.859	0.989	21.8	25.1	MA-06832-20	100	
0.928	1.072	23.6	27.2	MA-06832-22	100	
0.985	1.135	25.0	28.8	MA-06832-24	100	
1.123	1.296	28.5	32.9	MA-06832-28	50	
1.218	1.405	30.9	35.7	MA-06832-32	50	

**Discounts: Save 10% on 4-19 pks, 15% on 20-79 pks, and 20% on 80+ pks.

[MA-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	MA-08895-21		1.2	MA-08895-23		0.8	MA-08895-25		1.3	MA-08895-27	
		230 VAC	0.4	MA-08895-29		0.7	MA-08895-31		0.4	MA-08895-33		0.7	MA-08895-35	
¾ (2.8) [†]	9½" x 5½" x 4" (24.1 x 14 x 10.2 cm)	115 VAC	1.1	MA-08895-37		2	MA-08895-39		1.1	MA-08895-41		2	MA-08895-43	
		230 VAC	0.6	MA-08895-45		1.1	MA-08895-47		0.6	MA-08895-49		1.1	MA-08895-51	
1½ (5.7) [‡]	11½" x 6" x 6" (29.2 x 15.2 x 15.2 cm)	115 VAC	1.1	MA-08895-53		2.9	MA-08895-55		1.1	MA-08895-57		2.9	MA-08895-59	
		230 VAC	0.6	MA-08895-61		1.5	MA-08895-63		0.6	MA-08895-65		1.6	MA-08895-67	
2½ (9.5) [‡]	11½" x 9½" x 6" (29.2 x 24.1 x 15.2 cm)	115 VAC	1.5	MA-08895-69		4	MA-08895-71		1.5	MA-08895-73		4.1	MA-08895-75	
		230 VAC	0.8	MA-08895-77		2.1	MA-08895-79		0.8	MA-08895-81		2.1	MA-08895-83	
5½ (20.8) [‡]	19½" x 11" x 6" (49.5 x 27.9 x 15.2 cm)	115 VAC	2.7	MA-08895-85		7.7	MA-08895-87		2.7	MA-08895-89		7.8	MA-08895-91	
		230 VAC	1.4	MA-08895-93		4	MA-08895-95		1.4	MA-08895-97		4	MA-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

NEW



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)	5¼" x 5½" x 3½" (15 x 14 x 10 cm)	7½" x 6¼" x 8¼" (19 x 17 x 22 cm)	120, 60	MA-08895-01	
			240, 50	MA-08895-03	
0.75 (3)	9½" x 5½" x 3½" (24 x 14 x 10 cm)	10½" x 6¼" x 9¼" (27 x 17 x 24 cm)	120, 60	MA-08895-05	
			240, 50	MA-08895-07	
1.5 (6)	11½" x 6½" x 5½" (30 x 15.5 x 15 cm)	13" x 7½" x 12¾" (33 x 18 x 31 cm)	120, 60	MA-08895-09	
			240, 50	MA-08895-11	
2.5 (9)	11½" x 9½" x 5½" (30 x 24 x 15 cm)	13" x 10½" x 12¾" (33 x 27 x 31 cm)	120, 60	MA-08895-13	
			240, 50	MA-08895-15	
3.5 (13)	13" x 11½" x 5½" (33 x 30 x 15 cm)	14¾" x 13" x 12¾" (36 x 33 x 31 cm)	120, 60	MA-08895-17	
			240, 50	MA-08895-19	
5.25 (20)	19½" x 11½" x 5½" (50 x 30 x 15 cm)	21½" x 13" x 12¾" (55 x 33 x 31 cm)	120, 60	MA-08895-21	
			240, 50	MA-08895-23	
7.25 (27)	19½" x 11½" x 7½" (50 x 30 x 20 cm)	21½" x 13" x 14¾" (55 x 33 x 36 cm)	120, 60	MA-08895-25	
			240, 50	MA-08895-27	

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

Air Cadet®



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 3/8" NPT(M) x 3/8" 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 3/8" NPT(M) x 3/8" hose barb adapters, and one polyethylene 1/4" NPT(M) x 3/8" 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

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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)	3/8" hose barb	115 VAC, 60 Hz	MA-07532-40	
0.45 (13)						230 VAC, 50 Hz	MA-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)	3/8" hose barb	115 VAC, 60 Hz	MA-07532-60	
0.91 (26)†						230 VAC, 50 Hz	MA-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)	3/8" hose barb	115 VAC, 60 Hz	MA-07532-80	
0.4 (11.3)						230 VAC, 50 Hz	MA-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)	3/8" NPT(F)	115 VAC	MA-07530-85	
	18 (457.2)	15 (1.03)	Noryl pump head, FKM diaphragm, PTFE valves, and PE adapters			12 VDC	MA-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

[MA-07395-20](#) Vacuum/pressure gauge connector kit, brass. Contains two PE adapters and one each of bushing, pipe tee, and adapter for pipe mount

[MA-07530-06](#) Service kit. Contains long-life nitrile diaphragm, Noryl pump head, two PTFE valves, and two Noryl retainers

Replacement Parts

[MA-07530-77](#) Pump head assembly, Valox®. Includes valves and retainers. For continuous pressures greater than 14 psi

[MA-07530-71](#) Diaphragm clamp assembly; includes diaphragm clamp and shaft, and eccentric assembly

[MA-07530-79](#) Diaphragm shaft

[MA-07530-75](#) Eccentric assembly

[MA-08270-33](#) Thread sealer tape of PTFE resin. Each roll measures 260"L x 1/2"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	MA-06087-05	
12 mL		MA-06087-15	
18 mL		MA-06087-25	
28 mL	12	MA-06087-35	
50 mL		MA-06087-45	
75 mL		MA-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	MA-06094-10	
1.7 mL		MA-06094-20	
2.1 mL		MA-06094-30	
8.4 mL	1000	MA-06094-50	
16.9 mL	500	MA-06094-60	
29.6 mL	500	MA-06094-70	
42.3 mL	500	MA-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
11.1 mL	144	MA-06102-10	
18.5 mL		MA-06102-15	
25.9 mL		MA-06102-20	
37.0 mL	144	MA-06102-25	
55.5 mL		MA-06102-35	
74.0 mL		MA-06102-40	
111.0 mL	72	MA-06102-50	

WHEATON® Scintillation Glass Vials

Stand up to most chemicals

- Sample and store up to 20 mL
- Measure 2 3/8" H x 1 1/8" 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	MA-08918-01	500	
Urea	Polyseal® cone			MA-08918-02		
Urea	Polyethylene disc			MA-08918-03		
Urea	Polyethylene disc	24	On	MA-08918-05	500	
Polypropylene	Metal foil	22		MA-08918-06		

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	MA-08922-21		MA-08922-31	
4 mL	100	MA-08922-22		MA-08922-32	
8 mL	200	MA-08922-23		MA-08922-33	
12 mL	200	MA-08922-24		MA-08922-34	
16 mL	200	MA-08922-26		MA-08922-36	
20 mL	100	MA-08922-27		—	—
22 mL	200	MA-08922-28		—	—
40 mL	100	MA-08922-29		MA-08922-39	
Vials with open-top, unlined polypropylene cap and PTFE/silicone septa					
2 mL	100	MA-08922-41		MA-08922-51	
4 mL	100	MA-08922-42		MA-08922-52	
8 mL	200	MA-08922-43		MA-08922-53	
12 mL	200	MA-08922-44		MA-08922-54	
16 mL	200	MA-08922-46		MA-08922-56	
22 mL	200	MA-08922-48		—	—
40 mL	100	MA-08922-49		MA-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	MA-62261-00	500	
45 mL	MA-62261-10	400	
120 mL	MA-62261-20	200	
240 mL	MA-62261-30	100	
300 mL	MA-62261-40	100	



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	MA-08921-01	144	
12 mL	22 mm	MA-08921-02		
16 mL	30 mm	MA-08921-03		
30 mL	34 mm	MA-08921-05	72	
60 mL	45 mm	MA-08921-06		
120 mL	45 mm	MA-08921-07		

More than **30,000** Chemicals

Choose from various grades, package sizes, and delivery options



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- Bioreagents

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Description	Volume/Mass	Catalog number	Price
Sodium Hydroxide, 1.0 Normal	1 L	MA-88400-89	
Water, ACS Reagent Grade, ASTM Type I	4 L	MA-88401-21	
Isopropanol, 70% (v/v) Aqueous Solution	1 gal.	MA-88400-48	
Acetone, ACS Grade, Poly Bottle	4 L	MA-88406-15	
Sulfuric Acid Solution, 1.00 Normal	1 L	MA-88401-09	
Reagent Alcohol, ACS Reagent Grade, Anhydrous, Absolute	1 gal.	MA-88400-66	
Hydrochloric Acid, 1.00 Normal	1 L	MA-88400-40	
Iodine (Iodine-Iodide), 0.100 Normal (N/10)	32 oz	MA-88400-47	
Silver Nitrate, 0.100 Normal (N/10)	1 L	MA-88400-70	
Acetic Acid, Glacial, ACS Grade	2.5 L	MA-88401-62	
Sodium Chloride, ACS Grade	500 g	MA-88404-60	

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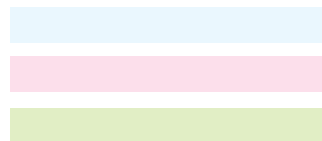
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