

Cole-Parmer® StableTemp® Economical Digital Utility Water Baths

Get 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.

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 stainless steel

High-temperature cutoff: yes



Hinged polycarbonate lid allows condensation to flow back

StableTemp

ISO9001:2008
CERTIFIED SUPPLIER



Bath capacity	Bath 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 $\frac{5}{16}$ " (9.9 x 10.9 cm)	5 $\frac{1}{2}$ " (14 cm)	GY-14576-00		GY-14576-02	
5 L	5" x 10 $\frac{1}{16}$ " (12.7 x 27.4 cm)	5 $\frac{1}{2}$ " (14 cm)	GY-14576-04		GY-14576-06	
10 L	10 $\frac{5}{8}$ " x 11 $\frac{5}{8}$ " (26.9 x 29.5 cm)	5 $\frac{1}{2}$ " (14 cm)	GY-14576-08		GY-14576-10	
20 L	9 $\frac{1}{2}$ " x 17 $\frac{1}{2}$ " (24.2 x 44.5 cm)	5" (12.7 cm)	GY-14576-12		GY-14576-14	
28 L	9 $\frac{1}{2}$ " x 17 $\frac{1}{2}$ " (24.2 x 44.5 cm)	7" (17.8 cm)	GY-14576-16		GY-14576-18	

Compact Economical Poly Pro Bath

Easy cleanup and removal of mineral deposits

- Polypropylene chamber resists corrosion and chemical attack
- Three-digit temperature display and simple two-button operation
- Low-level sensor automatically shuts the bath down and sounds an alarm
- Save time with dual-bath model—run two temperature experiments simultaneously

What's included: clear, impact-resistant polymer cover and power cord with US standard plug.



39064-10



39066-50

Specifications

Temperature range: ambient to 99.9°C

Wetted materials: polypropylene

High-temperature cutoff: no

Power: 120 VAC, 60 Hz

Bath capacity	Description	Temperature stability	Bath opening	Working depth	Catalog number	Price
5.5 L	Single bath	$\pm 0.5^\circ\text{C}$	12 $\frac{5}{8}$ " x 6 $\frac{3}{4}$ " (32.1 x 17.1 cm)	5 $\frac{1}{4}$ " (13.3 cm)	GY-39064-10	
5.5 L, each chamber	Dual bath	$\pm 0.4^\circ\text{C}$	12 $\frac{5}{8}$ " x 6 $\frac{3}{4}$ " (32.1 x 17.1 cm), each chamber	5 $\frac{1}{4}$ " (13.3 cm), each chamber	GY-39066-50	

Utility Baths

Ideal for maintaining a few temperature set points over a long period of time. Perfect for storing and testing samples.

Pages 53–55

Immersion Circulators

Equipped with a heater, temperature controller, and a circulating pump, these circulators change any tank into a heated bath.

Pages 56–58

Circulating Baths and Recirculators

Circulate fluid in closed-loop systems to maintain and control temperatures for equipment or to temper samples in range of -20 to 100°C . Use recirculators with existing tanks or containers. Baths include integral reservoir area.

Pages 58–64

Chillers

Chill liquids and circulate liquids for uniform temperatures as low as -60°C . Include recirculators and immersion probes for rapid cooling.

Pages 64–68

Specialty Baths

Testing and sample preparation baths including waterless bead baths and rack-mount chillers.

Pages 68–69

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General-Purpose Analog and Digital Water Baths

Protect samples from overheating

- Precise temperature control to 100°C
- Dual thermostats provide built-in safety

Analog Baths offer easy-to-use analog control and hydraulic thermostat. **Digital Baths** feature PID control and digital temperature set and readout, resolution of 0.1°C. Stainless steel in the exterior shell, reservoir, and sample tray. Removable hinged cover lifts to a 90° stay-open position. The dual-chamber model features individually temperature controlled chambers.

What's included: clear acrylic gable cover. Analog baths also include sample tray, thermometer clip, nonhazardous-liquid partial immersion (76 mm) thermometer (–10 to 110°C), and a 3-ft (0.9-m) power cord with three-prong plug (European plug on 240 VAC models).



Specifications

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

Temperature accuracy: ±0.5°C at 37°C

Temperature uniformity: ±0.24°C at 37°C

Temperature stability: ±0.5°C at 37°C

Bath capacity	Bath opening (L x W)	Working depth	Power		Analog baths		Digital baths		Stainless steel covers	
			VAC	Hz	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
2 liters	5¼" x 6" (13.3 x 15.2 cm)	6" (15.2 cm)	120	50/60	GY-03710-01		GY-03710-41		GY-03710-80	
			230	50/60	GY-03710-03		GY-03710-43			
2 liters, shallow	6" x 11¾" (15.2 x 29.8 cm)	2½" (6.4 cm)	120	50/60	GY-03710-05		GY-03710-45		GY-03710-82	
			230	50/60	GY-03710-07		GY-03710-47			
5 liters	11¾" x 6" (29.8 x 15.2 cm)	6" (15.2 cm)	120	50/60	GY-03710-09		GY-03710-49			
			230	50/60	GY-03710-11		GY-03710-51			
5/10 liters	11¾" x 6" (29.8 x 15.2 cm)/ 11¾" x 13" (29.8 x 33 cm)	6" (15.2 cm)	120	50/60	GY-03710-17		GY-03710-57		GY-03710-84	
			230	50/60	GY-03710-19		GY-03710-59			
10 liters	13" x 11¾" (33 x 29.8 cm)	6" (15.2 cm)	120	50/60	GY-03710-13		GY-03710-53			
			230	50/60	GY-03710-15		GY-03710-55			
20 liters	11¾" x 19¾" (29.8 x 50.2 cm)	6" (15.2 cm)	120	50/60	GY-03710-21		GY-03710-61		GY-03710-86	
			230	50/60	GY-03710-23		GY-03710-63			
28 liters	11¾" x 19¾" (29.8 x 50.2 cm)	8" (20.3 cm)	120	50/60	GY-03710-25		GY-03710-65			
			230	50/60	GY-03710-27		GY-03710-67			

Precision General-Purpose Heated Baths

Easy to use and maintain

- Seamless 304 stainless steel (SS) interior
- Fully insulated chamber with SS diffuser shelf achieves desired temperature quickly

Analog Baths feature analog control, manual high-limit thermostat, and spirit-filled glass thermometer. **Digital Baths** feature a microprocessor-based controller and fiberglass insulation. Program temperature set point. Feature LED readout, automatic overtemperature protection, and built-in calibration capabilities.

What's included: 304 SS gable cover(s), diffuser shelf(s), and 8-ft (2.4-m) power cord with plug (three-prong grounded plug on 115 VAC baths; European plug on 230 VAC baths).



Specifications

Temperature range

1.5-L baths: ambient to 95.0°C

All other baths: ambient to 99.0°C

Temperature stability: ±0.2°C at 37°C

Temperature sensitivity: ±0.1°C at 37°C

Bath capacity	Bath chamber (L x W)	Working depth	Shelf size	Power		Analog baths		Digital baths	
				VAC	Hz	Catalog number	Price	Catalog number	Price
Single-chamber baths include one diffuser shelf and one cover.									
1.5 liters	6" x 11½" (15.2 x 29.2 cm)	2" (5.1 cm)	5" x 10½" (12.7 x 26.7 cm)	120	60	GY-12418-00		GY-12428-00	
				230	50/60	GY-12418-05		GY-12428-05	
5.5 liters	11½" x 6" (29.2 x 15.2 cm)	6" (15.2 cm)	10½" x 5" (26.7 x 12.7 cm)	120	60	GY-12418-20		GY-12428-20	
				230	50/60	—		GY-12428-25	
12 liters	11½" x 12½" (29.2 x 31.8 cm)	6" (15.2 cm)	10½" x 11½" (26.7 x 29.2 cm)	120	60	GY-12418-30		GY-12428-30	
				230	50/60	GY-12418-35		GY-12428-35	
19.5 liters	14" x 12" (35.6 x 30.5 cm)	8" (20.3 cm)	12" x 10" (30.5 x 25.4 cm)	120	60	GY-12418-40		GY-12428-40	
				230	50/60	GY-12418-45		—	
43 liters	16" x 28" (40.6 x 71.1 cm)	6½" (16.5 cm)	13½" x 25½" (34.3 x 64.8 cm)	120	60	GY-12418-60		GY-12428-60	
				230	50/60	GY-12418-65		GY-12428-65	
Dual-chamber baths include two independent controls, two diffuser shelves, and two covers.									
12 liters/ chamber	11½" x 12½" (29.2 x 31.8 cm) per chamber	6" (15.2 cm) per chamber	10½" x 11½" (26.7 x 29.2 cm) per chamber	120	60	GY-12418-80		GY-12428-80	
				230	50/60	GY-12418-85		GY-12428-85	

Economical Digital Shaking Water Baths

Maintain your program even during power outages

- Adjustable temperature, stroke length, and speed
- Microprocessor-based keypad and digital display with preset time, continuous run, rpm, and temperature

Slow-start and stop feature deters splashing. Low-water level signals heater shutoff for added sample safety.

Enamel-coated aluminum housing, and seamless, corrosion resistant stainless steel chamber with removable basket. Baths come with adjustable springs to hold racks and other objects in place.



Specifications

Wetted materials: 304 stainless steel **High-temperature cutoff:** none **Low-level cutoff:** yes **Drain valve:** none

Bath capacity	Temperature range	Temp stability	Shaking speed	Shaking stroke	Basket opening	Working depth	Power (VAC, Hz)	Catalog number	Price
10 liters	Ambient to 75°C	±0.5°C	0 to 150 rpm, adjustable	½", 1", and 1½" travel	7½" x 8" (19.1 x 20.3 cm)	5½" (14.0 cm)	110, 60	GY-12052-00	
20 liters		±0.05°C			15" x 10½" (38.1 x 26.7 cm)	6" (15.2 cm)	220, 50/60	GY-12052-05	
							110, 60	GY-12052-10	
							220, 50/60	GY-12052-15	

Reciprocal Shaking Water Baths

Minimize shock to your samples

- Dual LED displays show actual or set temperature and shaking speed
- Microprocessor temperature control with built-in calibration

Store up to three temperature settings for fast recall. Shaker mechanism has its own control key to use the unit as a constant temperature bath. Digital timer can be set from 1 to 99 hr 59 min and includes a delayed on/off capability. Shaking carriage can be removed. Safety features include independent overtemperature and low-level alarms. Optional universal platforms hold an assortment of flask clamps.



Specifications

Wetted materials: 304 stainless steel **High-temperature cutoff:** adjustable **Low-level cutoff:** yes **Drain valve:** yes

Bath capacity	Temperature range	Temp stability	Shaking speed	Shaking stroke	Bath opening (L x W)	Working depth	Power (VAC, Hz)	Shaking water bath		Universal platform	
								Cat. no.	Price	Cat. no.	Price
17 liters	5°C above ambient to 100°C	±0.2°C	20 to 180 rpm	30 mm horizontal	9½" x 4¾" (243 x 109 mm)	9.3" (236 mm)	115, 60	GY-12054-00		GY-12054-40	
							230, 50	GY-12054-05		GY-12054-40	
25 liters	5°C above ambient to 100°C	±0.2°C	20 to 180 rpm	30 mm horizontal	9¾" x 9" (243 x 229 mm)	9.3" (236 mm)	115, 60	GY-12054-10		GY-12054-42	
							230, 50	GY-12054-15		GY-12054-42	
37 liters	5°C above ambient to 100°C	±0.2°C	20 to 180 rpm	30 mm horizontal	9¾" x 15¾" (243 x 389 mm)	9.3" (236 mm)	115, 60	GY-12054-20		GY-12054-44	
							230, 60	GY-12054-25		GY-12054-44	
55 liters	5°C above ambient to 100°C	±0.2°C	20 to 180 rpm	30 mm horizontal	11½" x 21½" (293 x 539 mm)	9.3" (236 mm)	115, 60	GY-12054-30		GY-12054-46	
							230, 60	GY-12054-35		GY-12054-46	

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Baths & Circulators

Reciprocal Shaker Water Baths

Prepare samples easily outside of bath

- Removable shaking insert for simple sample placement
- Adjustable temperature, shaking speed, and countdown timer
- One-point temperature calibration for measurement accuracy
- Low water-level warning and cut-off functions

Small footprint and durable handles let you conveniently position the bath where needed. Easy access to drain screw allows you to readily empty the bath.

Simple-to-operate PID temperature controller with LED display and one-point temperature calibration ensures maximum accuracy. Use the RS-232 interface for quick temperature data transfer to your computer.

Order bath cover and accessories separately below.

What's included: power cord.



Bath 12149-00 shown with cover 12149-50 and spring tray 12149-52

Specifications

Wetted materials: stainless steel

Drain valve: yes

Low-level cutoff: yes

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Bath capacity	Temperature range	Stability	Shaking speed	Shaking stroke	Bath opening (L x W)	Working depth	Power (VAC, Hz)	Catalog number	Price
20 L	Ambient to 99°C	±0.2°C	20 to 200 rpm	15 mm	19 3/4" x 11 13/16" (50 x 30 cm)	7 1/8" (18 cm)	120, 60	GY-12149-00	
							240, 50	GY-12149-05	
20 L	Ambient to 99°C	±0.02°C	20 to 200 rpm	15 mm	19 3/4" x 11 13/16" (50 x 30 cm)	7 1/8" (18 cm)	120, 60	GY-12149-10	
							240, 50	GY-12149-15	

[GY-12149-50](#) Lift-up bath cover, transparent, for use to 80°C

[GY-12149-52](#) All-purpose tray with springs for 25-mL to 1000-mL Erlenmeyer flasks

[GY-12149-57](#) Rack tray for 360 microliter tubes, 11/12-mm dia

[GY-12149-55](#) Rack tray for 360 test tubes, 12/13-mm dia

[GY-12149-53](#) Rack tray for 240 test tubes, 16/17-mm dia

[GY-12149-59](#) Rack tray for 84 test tubes, 30-mm dia

Immersion Circulators

Remain in control with higher stability

Analog Circulator features proportional temperature control, ±0.01°C stability, overtemperature indicator light, pressure pump, and rugged construction.

Basic Digital Circulator offers precise PID temperature control at a competitive price. Unit also features digital LED display, ±0.01°C stability, overtemperature indicator light, pressure pump, and low-liquid level cutoff.

Standard Digital Circulator provides high ±0.005°C temperature stability, plus RS-232 interface capability. Bidirectional RS-232 lets you control bath remotely and download data to a computer for further analysis. Unit also features digital LED display, overtemperature indicator light, pressure pump, and low-liquid level cutoff.

What's included (all models): 7 1/2-ft (2.3-m) cord with three-prong plug (European plug on 240 VAC model) and a thermometer holder.



Standard digital circulator 01262-13



Analog circulator 01262-01

Specifications

Wetted materials: 316 stainless steel and PPS (polyphenylene sulfide)

Immersion depth: 4" to 5" (10.2 to 12.7 cm)

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Controller type	Temperature range	Stability	Pump type	Max pump pressure psi (mbar)	Max flow (L/min)	Low-level cutoff	Power (VAC, Hz)	Catalog number	Price
Analog	Ambient +5 to 95°C	±0.01°C	Force	2.1 (145)	10	No	120, 50/60	GY-01262-01	
							240, 50/60	GY-01262-03	
Basic digital	Ambient +5 to 120°C	±0.01°C	Force	2.1 (145)	10	Yes	120, 50/60	GY-01262-05	
							240, 50/60	GY-01262-07	
Standard digital	Ambient +5 to 200°C	±0.005°C	Force	2.1 (145)	10	Yes	120, 50/60	GY-01262-13	
							240, 50/60	GY-01262-15	

Cole-Parmer® Polystat® Heating Immersion Circulators

Accurately control temperature to 200°C

- Easy-to-use PID controller with LCD featuring three languages and up to five temperature set points
- Pump connections for circulation to external applications
- Resolution of 0.01° reads out in °C, °F, or K

Standard and Standard Plus Controllers feature five programmable set points, a two-speed pump, and an adjustable pump nozzle.

Advanced Controller offers tighter control with $\pm 0.025^\circ$ stability. It features five programmable set points, a two-stage pump (force and suction for extra capacity with external open- or closed-loop applications), and a USB port.

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



12120-01

Specifications

Wetted materials: stainless steel, polymers
Immersion depth: 5¾" (14.6 cm)

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UL US CE

Controller type	Temperature range	Stability	Pump type	Max pump pressure psi (mbar)	Max flow (L/min)	Low-level cutoff	Power (VAC, Hz)	Catalog number	Price
Immersion circulators with clamp for attachment to side of tank									
Standard	Ambient +10 to 100°C	$\pm 0.05^\circ\text{C}$	Force	4.5 (310)	17	Yes	115, 60 230, 50	GY-12120-01 GY-12120-02	
Standard Plus	Ambient +10 to 150°C	$\pm 0.05^\circ\text{C}$	Force	4.5 (310)	17	Yes	115, 60 230, 50	GY-12120-03 GY-12120-04	
Immersion circulators with bridge that spans across the tank; adjustable bridge from 12" to 31½" (30.5 to 80 cm)									
Standard	Ambient +10 to 100°C	$\pm 0.05^\circ\text{C}$	Force	4.5 (310)	17	Yes	115, 60 230, 50	GY-12120-08 GY-12120-09	
Standard Plus	Ambient +10 to 150°C	$\pm 0.05^\circ\text{C}$	Force	4.5 (310)	17	Yes	115, 60 230, 50	GY-12120-11 GY-12120-12	
Advanced	Ambient +10 to 200°C†	$\pm 0.025^\circ\text{C}$	Force/suction	10.8 (750)	21	Yes	115, 60	GY-12120-13	

†Pump at low speed

Digital Heating Immersion Circulators

Convert any tank into a circulating bath

- Large, user-friendly backlit digital display
- Integral heating coil and recirculating pump handles bath capacities up to 28 L
- Adjustable mounting clamp for easy placement even on curved walls

Push buttons provide simple control of the on/off/standby mode, set point value, Celsius/Fahrenheit selection, and offset calibration value. The low/high limit settings control the user-selectable min/max temperatures.

Compact, stylish design has a streamlined profile to occupy a minimum of reservoir space. A protective housing prevents direct contact with the integral pump and heater coil, while offering easy access for inspection and cleaning. A convenient slide control allows easy variable fluid flow adjustment. The single-speed pump effectively circulates liquids up to a 28-L reservoir.

What's included: 6-ft (1.8-m) power cord with three-prong plug (European plug on 240 VAC unit).

Specifications

Wetted materials: stainless steel, polymers

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UL US

CE

2

LCD shows set and actual temperature



12101-62

12101-61

Temperature range	Stability	Max pump pressure psi (mbar)	Max flow (L/min)	Immersion depth	Low-level cutoff	Power (VAC, Hz)	Catalog number	Price
Ambient +10 to 98°C	$\pm 0.07^\circ\text{C}$	0.72 (49.6)	6	7½" (19 cm)	Yes	120, 60 240, 50	GY-12101-62 GY-12101-64	
Ambient +10 to 135°C	$\pm 0.07^\circ\text{C}$	1.8 (120) 1.5 (100)	12.8 10.6	7" (18.4 cm)	Yes	120, 60 240, 50	GY-12101-61 GY-12101-63	

Baths & Circulators

Heated Immersion Circulators

Versatility across all performance levels

- Easy to use and energy efficient—rotate control head 90° for easier viewing

These immersion circulators feature an LCD with temperature and set point values displayed simultaneously in choice of °C, °F, or K at 0.1 or 0.01 resolution, fluid selection with predefined temperature limits, and a two-speed force pump for excellent temperature uniformity and external closed loop circulation. Additional features include five preset set point temperatures, application temperature limits, real-time clock with on/off timer, three languages (English, French, and German), and acoustic and visual alarms. The SC 150 models also include a USB port for serial communication. The SC 150L has an increased immersion depth for better mixing in large, deep baths and to allow for a lower starting level which leaves space for fluid expansion at set points above 100°C.

What's included: 8-mm and 12-mm hose barbs with clamps for external circulation, and a 6-ft (1.8-m) power cord with plug.



Features clamp for attachment to side of tank

Specifications

Wetted materials: stainless steel, polymers

Immersion depth: 5¾" (14.7 cm), except for SC 150L which is 7½" (19.2 cm)



Controller type	Temperature range	Stability	Pump type	Max pump pressure psi (mbar)	Max flow (L/min)	Low-level cutoff	Power (VAC, Hz)	Catalog number	Price
SC 100	Ambient +13 to 100°C	±0.02°C	Force	4.35 (300)	17	No	115, 60	GY-12135-00	
							230, 50	GY-12135-05	
SC 150	Ambient +13 to 150°C	±0.02°C	Force	4.35 (300)	17	Yes	115, 60	GY-12135-10	
							230, 50	GY-12135-15	
SC 150L	Ambient +13 to 150°C	±0.02°C	Force	4.35 (300)	17	Yes	115, 60	GY-12135-20	
							230, 50	GY-12135-25	

Cole-Parmer® Polystat® Open Heating Circulating Baths

Save money compared to stainless steel baths

- Three programmable set points for easy recall
- Two-speed pump with adjustable nozzle and up to 17 L/min flow
- Plumbed connections for external circulation
- Protect your bath and application from adverse events with high temperature cutoff

Choose from two different bath styles, either acrylic or polyphenylene oxide (PPO) with volumes up to 14.1 L. Transparent acrylic baths handle temperatures to 80°C and provide visibility of your samples. Rugged PPO baths allow for heating to 100°C and are the most economical choice.

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

12134-30



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Specifications

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Wetted materials: stainless steel, polymers, acrylic or PPO (depending on model ordered)

Bath capacity	Temperature range	Stability	Pump type	Max pump pressure psi (mbar)	Max flow (L/min)	Low-level cutoff	Working area (W x L x D)	Power (VAC, Hz)	Catalog number	Price
Acrylic heated circulating baths										
7 L	Ambient +10 to 80°C	±0.05°C	Force	4.4 (310)	17	Yes	8¾" x 5⅝" x 5⅞" (22.1 x 13.7 x 15 cm)	115, 60	GY-12134-00	
								230, 50	GY-12134-02	
12.8 L	Ambient +10 to 80°C	±0.05°C	Force	4.4 (310)	17	Yes	11⅓⅙" x 5⅓⅙" x 5⅞" (30 x 14.7 x 15 cm)	115, 60	GY-12134-04	
								230, 50	GY-12134-06	
PPO heated circulating baths										
5.3 L	Ambient +10 to 100°C	±0.05°C	Force	4.4 (310)	17	Yes	5⅓⅙" x 5⅓⅙" x 6⅓⅙" (13.2 x 13.2 x 16 cm)	115, 60	GY-12134-30	
								230, 50	GY-12134-32	
14.1 L	Ambient +10 to 100°C	±0.05°C	Force	4.4 (310)	17	Yes	11⅓⅙" x 6⅓⅙" x 6⅓⅙" (30 x 16.2 x 16 cm)	115, 60	GY-12134-34	
								230, 50	GY-12134-36	

Cole-Parmer® Polystat® Stainless Steel Heating Circulating Baths

Get quality performance at an affordable price!

- Easy-to-use PID controller and moisture-tight LCD (0.01°) in °C, °F, or K
- Two-speed pump includes plumbing connections for external circulation
- Safety features include high-temperature cutoff and acoustic alarms

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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 a two-stage (force/suction) pump that supplies increased flow and pressure capabilities making it suitable for a wider range of applications, and a USB port.

Specifications

Wetted materials: stainless steel, polymers **Low-level cutoff:** none

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Bath capacity	Temperature range	Stability	Pump type	Max pump pressure psi (mbar)	Max flow (L/min)	Working area (L x W x D)	Power (VAC, Hz)	Catalog number	Price
Standard digital controller baths									
6.5 L	Ambient +10 to 100°C	±0.05°C	Force	4.5 (310)	17	4 3/8" x 6 3/8" x 5 7/8" (11.2 x 16.3 x 15 cm)	115, 60 230, 50	GY-12134-60 GY-12134-62	
6.5 L	Ambient +10 to 150°C	±0.05°C	Force	4.5 (310)	17	4 3/8" x 6 3/8" x 5 7/8" (11.2 x 16.3 x 15 cm)	115, 60 230, 50	GY-12121-02 GY-12121-04	
9.5 L	Ambient +10 to 150°C	±0.05°C	Force	4.5 (310)	17	4 3/8" x 9 3/8" x 5 7/8" (11.2 x 23.9 x 15 cm)	115, 60 230, 50	GY-12121-22 GY-12121-24	
19.6 L	Ambient +10 to 100°C	±0.05°C	Force	4.5 (310)	17	12 5/16" x 11 1/8" x 5 7/8" (31.2 x 29.5 x 15 cm)	115, 60 230, 50	GY-12134-68 GY-12134-70	
19.6 L	Ambient +10 to 150°C	±0.05°C	Force	4.5 (310)	17	12 5/16" x 11 1/8" x 5 7/8" (31.2 x 29.5 x 15 cm)	115, 60 230, 50	GY-12121-42 GY-12121-44	
Advanced digital controller baths									
6.5 L	Ambient +10 to 200°C†	±0.025°C	Force/suction	10.8 (750)	21	4 3/8" x 6 3/8" x 5 7/8" (11.2 x 16.3 x 15 cm)	115, 60 230, 50	GY-12121-06 GY-12121-08	
19.6 L	Ambient +10 to 200°C†	±0.025°C	Force/suction	10.8 (750)	21	12 5/16" x 11 1/8" x 5 7/8" (31.2 x 29.5 x 15 cm)	115, 60 230, 50	GY-12121-46 GY-12121-48	

†Pump at low speed

Heating Circulating Baths

View display from across a room

- Waterproof control panel swivels 180°, allowing viewing at almost any angle
- Unique LidDock® system stores the lid in open position for easy sample placement and drains condensation back into reservoir
- Force/suction pumps available on certain models for external open- and closed-loop applications

Advanced PID algorithms increase heat responsiveness, eliminate set point overshoot, and ensure a constant temperature. The chemical-resistant DuraTop™ top plate remains cool at high temperatures and is easily cleaned and disinfected.

Basic and Standard Digital Controllers feature the EasyView™ LCD measuring 3 1/4" (8.25 cm) for the Basic controller and 3 3/4" (8.25 cm) for the Standard. **Performance Digital Controller** utilizes SmartTouch™ color touch-screen display and controls. Simply touch the screen to scroll through the menus, functions, and options—even when wearing gloves. View screen text in 11 languages. Data trending is visibly tracked on the display. **Performance Programmable Controller** adds unlimited time/temperature programmability.



Specifications

Wetted materials: stainless steel, polymers

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Bath capacity	Temperature range	Stability	Pump type	Low-level cutoff	Drain valve	Max pump pressure psi (mbar)	Max flow (L/min)		Working area (L x W x D)	Power (VAC, Hz)	Catalog number	Price
							Pressure	Suction				
Basic digital controller baths												
7 L	Ambient +10 to 135°C	±0.07°C	Force	Yes	Yes	1.8 (120)	12.8	—	6 ³ / ₁₆ " x 5 ⁵ / ₈ " x 5" (15.7 x 14.2 x 12.7 cm)	120, 60	GY-12119-00	
						1.5 (100)	10.6	—		240, 50	GY-12119-01	
Standard digital controller baths												
15 L	Ambient +10 to 170°C	±0.04°C	Force	Yes	Yes	3.5 (240)	11	—	8 ³ / ₈ " x 10 ⁷ / ₈ " x 5 ¹ / ₂ " (21.2 x 27.6 x 14 cm)	120, 60	GY-12119-06	
						2.9 (200)	10.2	—		240, 50	GY-12119-07	
28 L	Ambient +10 to 170°C	±0.04°C	Force	Yes	Yes	3.5 (240)	11	—	12 ³ / ₈ " x 14 ¹ / ₈ " x 5 ¹ / ₂ " (31.4 x 35.9 x 14 cm)	120, 60	GY-12119-18	
						2.9 (200)	10.2	—		240, 50	GY-12119-19	
Performance digital controller baths												
7 L	Ambient +10 to 200°C	±0.005°C	Force/suction	Yes	Yes	4.3 (300)	20.1	14.7	6 ³ / ₁₆ " x 5 ⁵ / ₈ " x 5" (15.7 x 14.2 x 12.7 cm)	120, 60	GY-12119-02	
						3.6 (250)	16.7	12.2		240, 50	GY-12119-03	
Performance programmable controller baths												
7 L	Ambient +10 to 200°C	±0.005°C	Force/suction	Yes	Yes	4.3 (300)	20.1	14.7	6 ³ / ₁₆ " x 5 ⁵ / ₈ " x 5" (15.7 x 14.3 x 12.7 cm)	120, 60	GY-12119-04	
						3.6 (250)	16.7	12.2		240, 50	GY-12119-05	

Stainless Steel Heated Circulating Baths

Rugged and corrosion resistant for high temperature applications

- Microprocessor PID controller for fast and precise temperature control
- Control head can be indexed 90° left or right for easy viewing

SAHARA baths with Standard Controllers (SC) feature an LCD with temperature and set point values displayed simultaneously in choice of °C, °F, or K at 0.1 or 0.01 resolution, fluid selection with predefined temperature limits, and a two-speed force pump for excellent temperature uniformity and external closed loop circulation.

Additional features include five preset set point temperatures, application temperature limits, real-time clock with on/off timer, three languages (English, French, and German), and acoustic and visual alarms. The SC 150 models also include a USB port for serial communication. The SC 150L models have an increased immersion depth for better mixing.

SAHARA baths with Advanced Controllers (AC) have all the same features as the SC models with a larger LCD, plus include a powerful three-speed force/suction pump for external open and closed loop applications. Additional feature includes seven languages (English, German, French, Spanish, Italian, Chinese, and Japanese).

The AC 200 models also offer one 10-step ramp program and a USB port for serial communication (USB not included on AC 150).

What's included: bridge with gasket and thumbscrews, 8-mm and 12-mm hose bars with clamps for external circulation, a 6-ft (1.8-m) power cord, and work area cover (except for 41- and 53-L baths).



12142-50

Specifications

Wetted materials: stainless steel, polymers



Controller type	Capacity	Temperature range	Stability	Pump type	Max pump pressure psi (mbar)	Max pump flow	Low-level cutoff	Working area (W x L x D)	Power (VAC, Hz)	Catalog number	Price
Standard Controller Circulating Baths											
SC 100	6 L	Ambient +13 to 100°C	±0.02°C	Force	4.35 (300)	17 L/min	No	6" x 4 3/8" x 6" (15.2 x 11.1 x 15.2 cm)	115, 60	GY-12140-00	
									230, 50	GY-12140-05	
SC 100	26 L	Ambient +13 to 100°C	±0.02°C	Force	4.35 (300)	17 L/min	No	11 3/4" x 12 5/16" x 7 1/8" (29.8 x 32.9 x 20.2 cm)	115, 60	GY-12144-00	
									230, 50	GY-12144-05	
SC 150	6 L	Ambient +13 to 150°C	±0.02°C	Force	4.35 (300)	17 L/min	Yes	6" x 4 3/8" x 6" (15.2 x 11.1 x 15.2 cm)	115, 60	GY-12140-20	
									230, 50	GY-12140-25	
SC 150	8 L	Ambient +13 to 150°C	±0.02°C	Force	4.35 (300)	17 L/min	Yes	6" x 4 3/8" x 7 3/8" (15.2 x 11.1 x 18.7 cm)	115, 60	GY-12140-30	
									230, 50	GY-12140-35	
SC 150	19 L	Ambient +13 to 150°C	±0.02°C	Force	4.35 (300)	17 L/min	Yes	11 3/4" x 12 5/16" x 5 1/8" (29.8 x 31.4 x 15.1 cm)	115, 60	GY-12142-50	
									230, 50	GY-12142-55	
SC 150	26 L	Ambient +13 to 150°C	±0.02°C	Force	4.35 (300)	17 L/min	Yes	11 3/4" x 12 5/16" x 7 1/8" (29.8 x 32.9 x 20.2 cm)	115, 60	GY-12144-30	
									230, 50	GY-12144-35	
SC 150L	8 L	Ambient +13 to 150°C	±0.02°C	Force	4.35 (300)	17 L/min	Yes	6" x 4 3/8" x 7 3/8" (15.2 x 11.1 x 18.7 cm)	115, 60	GY-12140-40	
									230, 50	GY-12140-45	
Advanced Controller Circulating Baths											
AC 150	12 L	Ambient +13 to 150°C	±0.01°C	Force/suction	11.6 (805)	20 L/min	Yes	4 3/8" x 9 3/8" x 7 7/8" (11.2 x 23.9 x 20.1 cm)	115, 60	GY-12143-00	
									230, 50/60	GY-12143-05	
AC 150	26 L	Ambient +13 to 150°C	±0.01°C	Force/suction	11.6 (805)	20 L/min	Yes	11 3/4" x 12 5/16" x 7 1/8" (29.8 x 31.2 x 20.2 cm)	115, 60	GY-12147-00	
									230, 50/60	GY-12147-05	
AC 200	6 L	Ambient +13 to 200°C	±0.01°C	Force/suction	11.6 (805)	20 L/min	Yes	6" x 4 3/8" x 6" (15.2 x 11.2 x 15.2 cm)	115, 60	GY-12141-20	
									230, 50/60	GY-12141-25	
AC 200	12 L	Ambient +13 to 200°C	±0.01°C	Force/suction	11.6 (805)	20 L/min	Yes	4 3/8" x 9 3/8" x 7 7/8" (11.2 x 23.9 x 20.1 cm)	115, 60	GY-12143-30	
									230, 50/60	GY-12143-35	
AC 200	17 L	Ambient +13 to 200°C	±0.01°C	Force/suction	11.6 (805)	20 L/min	Yes	11 1/16" x 5 1/2" x 7 1/8" (30 x 14 x 20.2 cm)	115, 60	GY-12143-40	
									230, 50/60	GY-12143-45	
AC 200	19 L	Ambient +13 to 200°C	±0.01°C	Force/suction	11.6 (805)	20 L/min	Yes	11 3/4" x 12 5/16" x 5 1/8" (29.8 x 31.4 x 15.1 cm)	115, 60	GY-12143-50	
									230, 50/60	GY-12143-55	
AC 200	41 L	Ambient +13 to 200°C	±0.01°C	Force/suction	11.6 (805)	20 L/min	Yes	11 3/4" x 12 5/16" x 11 1/8" (29.8 x 31.2 x 30 cm)	115, 60	GY-12147-40	
									230, 50/60	GY-12147-45	
AC 200	53 L	Ambient +13 to 200°C	±0.01°C	Force/suction	11.6 (805)	20 L/min	Yes	19 1/16" x 16 7/8" x 7 7/8" (49.7 x 42.8 x 20.1 cm)	115, 60	GY-12147-50	
									230, 50/60	GY-12147-55	

Accessories

[GY-12142-26](#) Lid, stainless steel with handle for 41-L baths

[GY-12144-26](#) Lid, stainless steel with handle for 53-L baths

Cooling/Heating Circulating Baths

Control temperature precisely from -28 to 150°C

- Microprocessor PID controller for fast and precise temperature control
- Control head can be indexed 90° left or right for easy viewing

Standard Baths (SC) feature an LCD with temperature and set point values displayed simultaneously in choice of °C, °F, or K at 0.1 or 0.01 resolution, fluid selection with predefined temperature limits, and a two-speed force pump for excellent temperature uniformity and external closed loop circulation. Additional features include five preset set point temperatures, application temperature limits, real-time clock with on/off timer, and acoustic and visual alarms. The SC 150 models also include a USB port for serial communication.

Advanced Baths (AC) have all the same features as the SC models with a larger LCD, plus includes a powerful three-speed force/suction pump for external open and closed loop applications. The AC 200 models also offer one 10-step ramp program and a USB port for serial communication (USB not included on AC 150).

Premium Baths (PC) encompass all of the features of the SC and AC models plus add on a large, high-resolution, full-color display. The pump speed adjusts incrementally from 40% to 100% for flow and turbulence control and the 10-button keypad surrounds the display for fast and intuitive controller navigation. Additional features include ten 30-step ramp programs and temperature/program charting on the display.



12145-10

What's included: stainless steel lid with handle, control cables, bridge with gasket and thumbscrews, 8-mm and 12-mm hose barbs with clamps for external circulation, and a 6-ft (1.8-m) power cord.

Specifications

Temperature stability: Standard baths: $\pm 0.02^\circ\text{C}$; Advanced and Premium baths: $\pm 0.01^\circ\text{C}$ **Wetted materials:** stainless steel, polymers



Bath capacity	Temperature range	Cooling capacity at 20°C	Max pump pressure psi (mbar)	Max pump flow (L/min)	Low-level cutoff	Lid	Working area (W x L x D)	Power (VAC, Hz)	Catalog number	Price
Standard baths with SC 100 controller										
6 L	-10 to 100°C	240 W	4.35 (300)	17	No	Included	5 $\frac{3}{8}$ " x 4 $\frac{7}{8}$ " x 5 $\frac{7}{8}$ " (14 x 12 x 15 cm)	115, 60 230, 50	GY-12126-10 GY-12126-15	
10 L	-28 to 100°C	320 W	4.35 (300)	17	No	Included	6 $\frac{1}{16}$ " x 5" x 8" (17 x 13 x 20 cm)	115, 60 230, 50	GY-12126-00 GY-12126-05	
12 L	-25 to 100°C	500 W	4.35 (300)	17	No	Included	6 $\frac{1}{16}$ " x 7 $\frac{3}{16}$ " x 8" (17 x 18 x 20 cm)	115, 60 230, 50	GY-12126-20 GY-12126-25	
21 L	-5 to 100°C	200 W	4.35 (300)	17	No	Sold separately	11 $\frac{3}{4}$ " x 7 $\frac{1}{2}$ " x 7 $\frac{7}{8}$ " (30 x 19 x 20 cm)	115, 60 230, 50	GY-12125-00 GY-12125-05	
30 L	-10 to 100°C	250 W	4.35 (300)	17	No	Sold separately	11 $\frac{3}{4}$ " x 13 $\frac{1}{8}$ " x 7 $\frac{7}{8}$ " (30 x 35.1 x 20 cm)	115, 60 230, 50	GY-12125-10 GY-12125-15	
Standard baths with SC 150 controller										
6 L	-10 to 100°C	240 W	4.35 (300)	17	Yes	Included	5 $\frac{3}{8}$ " x 4 $\frac{7}{8}$ " x 5 $\frac{7}{8}$ " (14 x 12 x 15 cm)	115, 60 230, 50	GY-12127-10 GY-12127-15	
10 L	-28 to 150°C	320 W	4.35 (300)	17	Yes	Included	6 $\frac{1}{16}$ " x 5" x 8" (17 x 13 x 20 cm)	115, 60 230, 50	GY-12127-00 GY-12127-05	
12 L	-25 to 150°C	500 W	4.35 (300)	17	Yes	Included	6 $\frac{1}{16}$ " x 7 $\frac{3}{16}$ " x 8" (17 x 18 x 20 cm)	115, 60 230, 50	GY-12127-20 GY-12127-25	
21 L	-25 to 150°C	500 W	4.35 (300)	17	Yes	Included	8 $\frac{1}{16}$ " x 9 $\frac{9}{16}$ " x 9 $\frac{9}{16}$ " (22 x 24 x 23 cm)	115, 60 230, 50	GY-12125-70 GY-12125-75	
Advanced baths with AC 150 controller										
6 L	-10 to 100°C	240 W	11.7 (805)	20	Yes	Included	5 $\frac{3}{8}$ " x 4 $\frac{7}{8}$ " x 5 $\frac{7}{8}$ " (14 x 12 x 15 cm)	115, 60 230, 50	GY-12129-10 GY-12129-15	
12 L	-25 to 150°C	500 W	11.7 (805)	20	Yes	Included	6 $\frac{1}{16}$ " x 7 $\frac{3}{16}$ " x 8" (17 x 18 x 20 cm)	115, 60 230, 50	GY-12129-20 GY-12129-25	
21 L	-25 to 150°C	500 W	11.7 (805)	20	Yes	Included	8 $\frac{1}{16}$ " x 9 $\frac{9}{16}$ " x 9 $\frac{9}{16}$ " (22 x 24 x 23 cm)	115, 60 230, 50	GY-12145-20 GY-12145-25	
30 L	-10 to 100°C	250 W	11.7 (805)	20	Yes	Sold separately	11 $\frac{3}{4}$ " x 13 $\frac{1}{8}$ " x 7 $\frac{7}{8}$ " (30 x 34 x 20 cm)	115, 60 230, 50	GY-12145-10 GY-12145-15	
Advanced baths with AC 200 controller										
10 L	-28 to 200°C	320 W	11.7 (805)	20	Yes	Included	6 $\frac{1}{16}$ " x 5" x 8" (17 x 13 x 20 cm)	115, 60 230, 50	GY-12136-30 GY-12136-35	
12 L	-25 to 200°C	500 W	11.7 (805)	20	Yes	Included	6 $\frac{1}{16}$ " x 7 $\frac{3}{16}$ " x 8" (17 x 18 x 20 cm)	115, 60 230, 50	GY-12136-20 GY-12136-25	
Premium baths										
12 L	-40 to 200°C	900 W	11.7 (805)	24	Yes	Included	6 $\frac{1}{16}$ " x 7 $\frac{3}{16}$ " x 8" (17.3 x 18.4 x 20.4 cm)	115, 60 230, 50	GY-12129-22 GY-12129-24	
12 L	-50 to 200°C	1000 W	11.7 (805)	24	Yes	Included	8 $\frac{1}{16}$ " x 4 $\frac{3}{4}$ " x 7 $\frac{7}{8}$ " (22.4 x 11.9 x 20.1 cm)	208-230/60	GY-12129-26 GY-12129-28	
27 L	-24 to 200°C	900 W	11.7 (805)	24	Yes	Included	11 $\frac{3}{4}$ " x 12 $\frac{5}{16}$ " x 8" (29.7 x 31.3 x 20.3 cm)	115, 60 230, 50	GY-12129-02 GY-12129-04	

[GY-12125-06](#) Stainless steel bath lid for 21-L baths

[GY-12125-16](#) Stainless steel bath lid for 30-L baths

Baths & Circulators

Cole-Parmer® Polystat® Cooling/Heating Circulating Baths

Get excellent cooling across range of operating 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®

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UL US CE

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

†Requires 20 amp current.



Refrigerated Circulating Bath

Temper more samples simultaneously

- “Headless” design creates space for more samples while maintaining a small footprint
- Ingenious cover can be set up as a left- or right-handed hinge, or even removed—all without tools
- Bright 5.7" (14.5 cm) touch-screen, intuitive display is glove and stylus friendly
- Multiple communication choices for remote operation including USB, *Bluetooth*® wireless connectivity, RS-232, and RS-485

Small footprint makes this bath ideal for placement under a bench, in a fume hood, or even mobile installations. A wide variety of operational and safety parameters can be selected for convenience. Temperature profiles may be used to program temperature changes over time, for charting, to log data, or saved and used on multiple baths by using the USB flash-drive upload and download capabilities.

Optional stainless steel holder is designed to hold a wide range of beaker and test tube sizes.

What's included: dripless cover, stainless steel external circulation adapters, plumping adapter kit, and power cord.

Specifications

Wetted materials: stainless steel, PFA, PTFE, Ryton® PPS, Viton®, and EPDM

Communication interfaces: USB, micro-USB, RS-485, RS-232, *Bluetooth*® wireless connectivity



Bath capacity	Temperature range	Temperature stability	Max pump pressure	Max pump flow	Cooling capacity at 20°C	Low-level cutoff	Working area (W x L x D)	Power (VAC, Hz)	Catalog number	Price
7 L	-20 to 150°C	±0.02°C	17.4 psi (1200 mbar)	3.86 GPM (14.6 L/min)	425 W	Yes	6 ¹³ / ₁₆ " x 11 ¹¹ / ₁₆ " x 5 ¹⁵ / ₁₆ " (17.3 x 29.7 x 15 cm)	100 to 120 or 200 to 240, 50/60	GY-12128-80	

Note: *Bluetooth*® word mark logos are registered trademarks owned by Bluetooth SIG, Inc.

[GY-12128-85](#) Adjustable holder, stainless steel

[GY-12128-86](#) Gable cover, added height accommodates two 500-mL Erlenmeyer flasks

[GY-12128-87](#) Trolley, 17⁷/₈" W x 23¹/₈" L, steel with locking casters

[GY-12128-88](#) Auto refill option, for high-temperature applications

[GY-12128-89](#) Replacement plumbing adapter kit, stainless steel



Cooling/Heating Circulating Baths

Rotate display 180° with just a click

- Advanced PID algorithms increase heat/cool responsiveness to ensure constant temperature
- LidDock™ system stores the lid in open position for easy sample placement

The innovative WhisperCool™ environmental technology optimizes compressor and evaporator performance, reducing overall energy consumption and prolonging compressor life. Extra-large backlit digital display can be easily seen from across a room. Waterproof control panel swivels 180°, allowing viewing at almost any angle (except Basic controller).

Basic Controller reaches a maximum temperature of 135°C and has a single-speed pump.

Standard Digital Controller reaches up to 170°C and has a two-speed pump.

Performance Digital Controller utilizes SmartTouch™ color touch-screen display and controls for user friendly, icon-driven operation. Remote temperature sensing and control allow precision management of external baths and devices. Data trending is visibly tracked on the display. Force/suction pumps for external open- and closed-loop applications.

Performance Programmable Controller includes all the Performance digital controller features and adds on unlimited time/temperature programmability.

What's included: bath cover and lid, power cord, drain valve, fittings, plumbing tape, clamps, and drain tubing. Performance programmable models also include communication cables and memory stick.



Low-profile (LP) baths provide easier access to bath working area.



Indexing collar lets you rotate the control head 180°; independently with the touch of a button.

Specifications

Wetted materials: stainless steel, polymers

Low-level cutoff: yes

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Bath capacity	Temperature range	Cooling capacity at 20°C	Stability	Pump type	Max pump pressure psi (mbar)	Max flow (L/min)	Working area (L x W x D)	Power (VAC, Hz)	Catalog number	Price
Basic controller baths										
7 L (SS) [†]	–20 to 135°C	200 W	±0.07°C	Force	1.8 (120)	12.8	6 3/16" x 5 5/8" x 5" (15.7 x 14.2 x 12.7 cm)	120, 60	GY-12210-00	
					1.5 (100)	10.6		240, 50	GY-12210-01	
7 L (LP) [‡]	–20 to 135°C	200 W	±0.07°C	Force	1.8 (120)	12.8	6 3/16" x 5 5/8" x 5" (15.7 x 14.2 x 12.7 cm)	120, 60	GY-12210-06	
					1.5 (100)	10.6		240, 50	GY-12210-07	
Standard digital controller baths										
15 L	–30 to 170°C	915 W	±0.04°C	Force	3.5 (240)	11	8 3/8" x 10 7/8" x 5 1/2" (21.2 x 27.6 x 14 cm)	120, 60	GY-12210-18	
					2.9 (200)	10.2		240, 50	GY-12210-19	
28 L	–30 to 170°C	915 W	±0.04°C	Force	3.5 (240)	11	12 3/8" x 14 1/8" x 5 1/2" (31.4 x 35.9 x 14 cm)	120, 60	GY-12210-36	
					2.9 (200)	10.2		240, 50	GY-12210-37	
Performance digital controller baths										
7 L (SS) [†]	–20 to 200°C	200 W	±0.005°C	Force/suction	4.3 (300)	20.1	6 3/16" x 5 5/8" x 5" (15.7 x 14.2 x 12.7 cm)	120, 60	GY-12210-02	
					3.6 (250)	16.7		240, 50	GY-12210-03	
7 L (SS) [†]	–40 to 200°C	505 W	±0.005°C	Force/suction	4.3 (300)	20.1	6 3/16" x 5 5/8" x 5" (15.7 x 14.2 x 12.7 cm)	120, 60	GY-12210-14	
					3.6 (250)	16.7		240, 50	GY-12210-15	
15 L	–30 to 200°C	915 W	±0.005°C	Force/suction	4.3 (300)	20.1	8 3/8" x 10 7/8" x 5 1/2" (21.2 x 27.6 x 14 cm)	120, 60	GY-12210-20	
					3.6 (250)	16.7		240, 50	GY-12210-21	
15 L	–40 to 200°C	1000 W	±0.005°C	Force/suction	4.3 (300)	20.1	8 3/8" x 10 7/8" x 5 1/2" (21.2 x 27.6 x 14 cm)	120, 60	GY-12210-26	
					3.6 (250)	16.7		240, 50	GY-12210-27	
28 L	–30 to 200°C	915 W	±0.005°C	Force/suction	4.3 (300)	20.1	12 3/8" x 14 1/8" x 5 1/2" (31.4 x 35.9 x 14 cm)	120, 60	GY-12210-38	
					3.6 (250)	16.7		240, 50	GY-12210-39	
Performance programmable digital controller baths										
7 L (SS) [†]	–20 to 200°C	200 W	±0.005°C	Force/suction	4.3 (300)	20.1	6 3/16" x 5 5/8" x 5" (15.7 x 14.2 x 12.7 cm)	120, 60	GY-12210-04	
					3.6 (250)	16.7		240, 50	GY-12210-05	
15 L	–40 to 200°C	1000 W	±0.005°C	Force/suction	4.3 (300)	20.1	8 3/8" x 10 7/8" x 5 1/2" (21.2 x 27.6 x 14 cm)	120, 60	GY-12210-28	
					3.6 (250)	16.7		240, 50	GY-12210-29	
28 L	–30 to 200°C	915 W	±0.005°C	Force/suction	4.3 (300)	20.1	12 3/8" x 14 1/8" x 5 1/2" (31.4 x 35.9 x 14 cm)	120, 60	GY-12210-40	
					3.6 (250)	16.7		240, 50	GY-12210-41	

[†](SS) Space-saving

[‡](LP) Low-profile

Concentrated Lab Algicide

- Keep your baths sparkling clean and free from contaminants

Keep your water pure and odor free. Lab algicide prevents algae growth in baths and tanks, as well as in pumps, circulators, incubators, automatic analyzers, and gas analyzers. One 8-oz (237-mL) bottle treats up to 200 gallons (757 L). Stainless steel compatible.

Description	Qty	Catalog number	Price
Lab algicide	8-oz (237-mL) bottle	GY-08796-00	



Baths & Circulators

**Cole-Parmer® Polystat®
Air-Cooled Recirculator****Effectively cool external
samples and processes**

This air-cooled recirculator is an economical alternative to chillers with mechanical refrigeration. A positive displacement pump circulates fluid to your equipment, into a reservoir, and then through a fan-cooled radiator that removes the heat. Built-in low liquid level indicator ensures the safety of the reservoir and pumping system.

What's included: an easy-to-clean air filter to maintain cooling radiator efficiency. The pump is protected from damaging scale particles by a reusable in-line filter.

**polystat®**
ISO9001:2008   
 CERTIFIED SUPPLIER

Description	Air Cooled Recirculator	
Catalog number	GY-12930-00	GY-12930-05
Reservoir capacity	4.2 L	
Temperature range	Ambient +5 to 70°C	
Fluid flow rate	2.4 GPM	
Cooling capacity	4000 W at 20°C	
Wetted materials	PVC, polyethylene, copper, brass, and rubber	
Fittings	½" NPT(F)	
Power (VAC, Hz, amps)	120, 60, 5.5	240, 50, 3
Price		

**Cole-Parmer® Polystat®
Refrigerated Tank****Reach below-ambient
temperatures in an open tank!**

This refrigerated, deep drawn, seamless stainless steel tank is best used with an immersion circulator—select the circulator that best fits your temperature control needs and create your own constant temperature system.

**polystat®**
ISO9001:2008   
 CERTIFIED SUPPLIER

Description	Refrigerated Tank	
Catalog number	GY-12110-00	GY-12110-05
Tank capacity	3.4 gal. (13 L)	
Temperature range	0 to 150°C (with circulator)	
Cooling capacity	400 W at 20°C (120 VAC), 330 W at 20°C (240 VAC)	
Refrigerant	R-134a	
Wetted materials	304 stainless steel	
Low-level cutoff	none	
Drain valve	no	
Tank opening (L x W x D)	9" x 11¼" x 7¼" (22.9 x 29.8 x 19.7 cm)	
Tank working depth	7¼" (19.7 cm)	
Power (VAC, Hz)	120, 60	230, 50
Price		

Benchtop Recirculating Chillers**Simple operation and maintenance**

- Low noise output for quiet laboratory atmosphere
- Illuminated fluid-level indicator on front panel for easy viewing
- Top-mounted fill port with built-in fluid filter

These powerful chillers provide enough heat removal to simultaneously cool two rotary evaporators. System features digital temperature setting from –20 to 40°C with PID temperature control providing stability to ±0.1°C. Safety features include user-adjustable high-temperature limit and alarm auto-restart on power failure, and a fixed low flow rate alarm with power cutoff. Chiller features a closed 0.7 gal. (2.65 L) reservoir.

What's included: ½" NPT(F) inlet and outlet connections and power cord with three-prong plug (240 VAC models have a European plug).


ISO9001:2008   
 CERTIFIED SUPPLIER

Temperature range	Temperature stability	Tank capacity	Refrigerant	Pump type	Cooling capacity (watts)			Max pump pressure psi (mbar)	Max flow GPM (L/min)	Power (VAC, Hz, amps)	Catalog number	Price
					–10°C	0°C	20°C					
–20 to 40°C	±0.1°C	2.65 L	R-404a	Centrifugal	435	680	1160	9 (620)	3.9 (14.8)	120, 60, 12	GY-12930-10	
					435	680	1160	5.5 (400)	3.4 (12.9)	240, 50, 6	GY-12930-15	
–20 to 40°C	±0.1°C	2.65 L	R-404a	Centrifugal	475	750	1290	14.5 (1000)	3.5 (13.2)	120, 60, 12	GY-12930-30	
					460	700	1190	10.5 (720)	3.1 (11.7)	240, 50, 6	GY-12930-32	
–10 to 30°C	±0.1°C	2.65 L	R-404a	Centrifugal	230	350	560	5.1 (350)	2.1 (7.9)	120, 60, 12	GY-12930-38	
					140	250	520	4.4 (300)	1.8 (6.8)	240, 50, 5	GY-12930-40	
–10 to 30°C	±0.1°C	2.65 L	R-404a	Centrifugal	170	250	420	14.5 (1000)	3.5 (13.2)	120, 60, 12	GY-12930-42	
					110	170	390	12.5 (860)	3.0 (11.4)	240, 50, 5	GY-12930-44	
–5 to 50°C	±0.1°C	2.65 L	R-404a	Centrifugal	—	215	460	5.1 (350)	2.1 (7.9)	120, 60, 12	GY-12930-46	
					—	190	410	4.4 (300)	1.8 (6.8)	240, 50, 4.5	GY-12930-48	

Temperature-Controlled Recirculators

Handle process temperatures from -10 to 40°C

- No more scale build-up with built-in filter
- Easy, one-touch temperature control
- Maintain accuracy with easy-to-use calibration function to adjust temperature

The turbine pump models have an internal pressure relief valve that provides adjustable pumping pressure from 20 to 100 psi and a front-panel gauge let you monitor pressure.

The 1/2" NPT(F) inlet/outlet ports allow hookup to a variety of external equipment such as electron microscopes, diffusion pumps, AA furnaces, and mass spectroscopy systems.

- Audible and visual alarms alert you instantly when operating parameters exceed preset limits
- User-adjustable high and low temperature limits prevent unauthorized set point changes

Note: Do not use water in recirculator. Requires use of an antifreeze type liquid such as ethylene glycol or silicone. See bath fluids on page 70.

What's included: male pipe adapters with barbed fittings for 1/2" ID tubing, 10 ft (3 m) of reinforced PVC tubing, and a 5-ft (1.5-m) power cord and plug (240 VAC, 50 Hz models have European style plug).



Specifications

Reservoir capacity: 4.2 L
Temperature stability: ±0.1°C

Wetted materials: copper, brass, PVC, nylon, polypropylene, and vinyl
Refrigerant: R-134a



Temperature range	Compressor hp	Cooling capacity (watts)			Pump type	Max pump pressure psi (mbar)	Max flow at 0 head	Power (VAC, Hz, amps)	Catalog number	Price
		0°C	10°C	20°C						
-10 to 40°C	1/4	300	700	950	Centrifugal	10 (690)	15.5 L/min	120, 60, 9.5	GY-12910-01	
		400	600	800		9.5 (660)	14.7 L/min	240, 50, 5.6	GY-12910-02	
		700	1000	1430		10 (690)	15.5 L/min	120, 60, 10.4	GY-12910-03	
-10 to 40°C	1/8	600	960	1180	Centrifugal	9.5 (660)	14.7 L/min	240, 50, 5.9	GY-12910-04	
		850	1250	1800		10 (690)	15.5 L/min	120, 60, 13.2	GY-12910-06	
		765	1140	1775		9.5 (660)	14.7 L/min	240, 50, 7.2	GY-12910-07	
-10 to 40°C	3/4	975	1550	2350	Centrifugal	10 (690)	15.5 L/min	230, 60, 9.2	GY-12910-08	
		1075	1600	2250		9.5 (660)	14.7 L/min	240, 50, 9.2	GY-12910-09	
		975	1550	2350	Centrifugal	10 (690)	15.5 L/min	230, 60, 9.5	GY-12910-18	
-10 to 70°C	3/4	1075	1600	2250		9.5 (660)	14.7 L/min	240, 50, 9.5	GY-12910-19	
		750	1150	1700	Turbine	100 (6900)	13.25 L/min	120, 60, 16	GY-12930-78	
		765	1140	1775		83 (5700)	11 L/min	240, 50, 8.9	GY-12930-80	
-10 to 40°C	1/2	1000	1925	2900		100 (6900)	13.25 L/min	230, 60, 12.2	GY-12930-86	
		1200	1900	2650	Turbine	83 (5700)	11 L/min	240, 50, 12.2	GY-12930-88	

Recirculating Chillers

Powerful cooling in a compact size

- Three-key operation for fast and easy programming
- LED display and indicators show set point or actual temperature, plus pump, cooling and heating status
- Ecofriendly, R290 natural refrigerant

Choose air cooled for initial savings or water cooled for greater efficiency and lower operating costs. Controls are basic, allowing a single set point and a single pump speed. AutoMode function saves the current setpoint in case of power loss. All models come standard with a low fluid level switch. Heated models come with additional safety measures—an adjustable overtemperature cutoff and a second low fluid level switch.

Specifications

Pump type: Pressure/suction
Maximum pump pressure: 2.9 psi (200 mbar)
Maximum pump flow rate: 20 LPM
Reservoir capacity: 1.4 L



Temperature			Cooling capacity			Output	Power (VAC, Hz)	Air-cooled recirculating chillers		Water-cooled recirculating chillers	
Range	Resolution	Stability at -10°C	At 15°C	At 0°C	At -10°C			Catalog number	Price	Catalog number	Price
-20 to 40°C	0.1°C	±0.5°C	300 W	200 W	140 W	—	150, 60	GY-12751-01		GY-12751-05	
							230, 50	GY-12751-21		GY-12751-06	
							150, 60	GY-12751-02		GY-12751-25	
							230, 50	GY-12751-22		GY-12751-26	
							150, 60	GY-12751-03		—	
-20 to 100°C	0.1°C	±0.5°C	300 W	200 W	140 W	—	230, 50	GY-12751-23		—	
							150, 60	GY-12751-04		—	
							230, 50	GY-12751-24		—	
						RS-232	150, 60			—	
							230, 50			—	

Baths & Circulators

Cole-Parmer® Polystat® Cooling/Heating Recirculators**Save time with quick ramp up and cool-down**

- Don't lose valuable bench space—powerful unit in a compact design
- Internal circulating tank design was built to minimize fluid evaporation
- Easy cooling for smaller instruments, jacketed reactors, and rotary evaporators
- Reliable, robust system maintains temperature to $\pm 0.1^\circ\text{C}$ and pumps to 21 L/min
- Includes funnel and 8- and 12-mm hose barb fittings

Specifications

Internal reservoir capacity: 2.8

Temperature stability: $\pm 0.1^\circ$

polystat®



Cooling capacity at 20°C	Temperature range	Pump type	Max pump pressure psi (mbar)	Flow rate (L/min)	Power (VAC, Hz)	Catalog number	Price
250 W	-10 to 80°C	Force	4.4 (300)	17	115, 60	GY-13042-01	
					230, 50	GY-13042-03	
250 W	-10 to 80°C	Force/suction	11.7 (805)	21	115, 60	GY-13042-05	
					230, 50	GY-13042-07	
500 W	-10 to 80°C	Force	4.4 (300)	17	115, 60	GY-13042-17	
					230, 50	GY-13042-19	
500 W	-10 to 80°C	Force/suction	11.7 (805)	21	115, 60	GY-13042-21	
					230, 50	GY-13042-23	

**Cole-Parmer® Polystat® High-Capacity Recirculating Chillers****Cool across a wider range**

- High and low temperature alarms
- Front-mount pressure gauge for easy view of pressure readings
- Eliminate tap water waste
- Large fill port for easy spill-proof filling

polystat®

Robust pump performance for closed loop recirculation up to 2.0 kW. Three pump options handle a variety of application requirements. These chillers have an intuitive digital controller with a seamless moisture-resistant keypad. Illuminated icons simplify monitoring and adjusting operation parameters. You can adjust display resolution of 1° or 0.1°C .

What's included: power cord and male pipe adapters with barbed fittings for 1/2" ID tubing.

Specifications

Wetted materials: polyethylene, brass, copper, PVC, stainless steel

Refrigerant: R-134a



Reservoir capacity	Temperature range	Compressor hp	Cooling capacity (watts)			Max pump pressure psi (mbar)	Max flow at 0 head	Power (VAC, Hz, amps)	Catalog number	Price
			0°C	10°C	20°C					
7.6 L	-10 to 30°C	1/4	200	475	700	95 (6550)	6.4 L/min	115, 60, 9.8	GY-12911-00	
			175	410	600			230, 50, 5.1	GY-12911-02	
7.6 L	-10 to 30°C	1/3	275	415	1000	95 (6550)	6.4 L/min	115, 60, 13.2	GY-12911-04	
			240	375	900			230, 50, 6.3	GY-12911-06	
7.6 L	-10 to 30°C	1/3	275	415	1000	95 (6550)	14 L/min	115, 60, 15.5	GY-12911-08	
			240	375	900			230, 50, 7.6	GY-12911-10	
7.6 L	-10 to 30°C	1/3	275	415	1000	7 (483)	13.2 L/min	115, 60, 11.5	GY-12911-12	
			240	375	900	5 (345)	12.3 L/min	230, 50, 5.6	GY-12911-14	
18.9 L	-10 to 30°C	3/4	375	1100	2000	95 (6550)	6.4 L/min	208-230, 60, 8.8	GY-12911-16	
			325	1025	1900			230, 50, 8.8	GY-12911-18	
18.9 L	-10 to 30°C	3/4	375	1100	2000	95 (6550)	14 L/min	208-230, 60, 10.1	GY-12911-20	
			325	1025	1900			230, 50, 10.1	GY-12911-22	



Recirculating Chillers

Configure to your needs

- Up to 10% greater cooling capacity than comparable models
- High reliability for precious experiments
- Easy to operate and install

The recirculation system incorporates a highly reliable plumbing design to eliminate leaks and improve performance. Integrated air and fluid filters minimize wear to mechanical parts, which lowers lifetime maintenance costs and improves system reliability.

Units feature simple push-button operation with a quick-start guide to walk you through start-up. A visual fluid indicator gives instant status of fluid level while an integrated funnel allows quick, spill-proof filling. Integrated ramp and locking casters allow a single person to unpack, move, and install the chiller in minutes. Unit can be operated with two sides blocked for installation flexibility.

What's included: power cord with plug and ½" MPT plastic fittings.



13402-02

ISO9001:2008 CERTIFIED SUPPLIER

Specifications

Reservoir capacity: 7.2 L **Temperature stability:** $\pm 0.1^{\circ}\text{C}$
Temperature range: 5 to 40°C

Cooling capacity at 20°C	Pump type†	Maximum flow with water	Power		Catalog number	Price
			VAC	Hz		
900 EPR†						
900 W	PD 1	2.1 GPM (7.9 L/min)	115	60	GY-13042-02	
750 W		1.7 GPM (6.4 L/min)	230	50	GY-13042-14	
900 IPR†						
900 W	PD 1	2.1 GPM (7.9 L/min)	115	60	GY-13042-04	
750 W		1.7 GPM (6.4 L/min)	230	50	GY-13042-16	
900 W	PD 2	4.0 GPM (15.1 L/min)	115	60	GY-13042-10	
750 W		3.3 GPM (12.5 L/min)	230	50	GY-13042-22	
1400 EPR†						
1400 W	PD 1	2.1 GPM (7.9 L/min)	115	60	GY-13042-26	
1170 W		1.7 GPM (6.4 L/min)	230	50	GY-13042-28	
1400 IPR†						
1400 W	PD 1	2.1 GPM (7.9 L/min)	115	60	GY-13042-34	
1170 W		1.7 GPM (6.4 L/min)	230	50	GY-13042-36	
1400 W	PD 2	4.0 GPM (15.1 L/min)	115	60	GY-13042-38	
1170 W		3.3 GPM (12.5 L/min)	230	50	GY-13042-40	
2500 IPR†						
2500 W	PD 2	4.0 GPM (15.1 L/min)	208-230	60	GY-13042-46	
2200 W		3.3 GPM (12.5 L/min)	230	50	GY-13042-48	
5000 IPR†						
5000 W	PD 2	4.0 GPM (15.1 L/min)	208	60	GY-13042-58	
4400 W		3.3 GPM (12.5 L/min)	230	50	GY-13042-60	

†EPR = external pressure regulator; IPR = integral pressure regulator
 ‡PD 1 = lower flow rates; PD 2 = higher flow rates

Solid-State Recirculating Chillers

No mechanical moving parts to break down

- Powerful but compact—50% smaller and lighter than comparable compressor-driven models
- Feature leak-free quick-disconnect ports

These solid-state units contain no refrigerant and have no compressors—thermoelectric heat pump uses semiconductor materials and electric current to extract thermal energy from one region and move it to another. Features RS-232 data port.

What's included: 12-ft (3.7-m) detachable power cord with US standard plug.



Solid-state controls offer greater stability and reliability.



Air-cooled recirculating chiller 12751-00

ISO9001:2008 CERTIFIED SUPPLIER

Description		Solid-State Chiller	
Catalog number		GY-12751-00	GY-12751-10
Reservoir capacity		8 oz (237 mL)	8 oz (237 mL)
Temperature range		–5 to 45°C	–5 to 45°C
Temperature stability		$\pm 0.1^{\circ}\text{C}$	$\pm 0.1^{\circ}\text{C}$
Cooling capacity	At 0°C	225 W	210 W
	At -10°C	145 W	135 W
	At -20°C	100 W	95 W
Refrigerant		None	None
Pressure pump	Max flow, 0 head	2.7 L/min	3.8 L/min
	Max head, 0 flow	8 psi	20 psi
Power (VAC, Hz, amps)		115/230, 50/60, 7.5	115/230, 50/60, 7.5
Price			

Accessories

[GY-06360-87](#) Plastic quick-disconnect fitting for models 12751-00 and -10, ⅜" barb (male) x ¼" (flow)

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product specs
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Baths & Circulators

Cole-Parmer® Polystat® Refrigerated Chillers with Immersion Probe

Chill up to 10 liters of fluid

polystat®

Select models 01283-60 or -61 for rapid cooling between -60 and -20°C (not for use with fluids above -20°C). Models 01283-70 and -71 feature larger probes and more powerful compressors than other models—ideal for larger vessels or faster cooling.

What's included: immersion probe, 3-ft (0.9-m) of Perbunan®-insulated metal tubing and a 4½-ft (1.4-m), three-wire cord. The 115 VAC models also include a three-prong plug.

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Temperature range	Compressor hp	Cooling capacity		Max bath size	Power	Catalog number	Price
		-30°C	20°C				
-60 to 20°C	¼	125 W	—	3 L	115 VAC/60 Hz	GY-01283-60	
		104 W	—	(0.8 gal.)	240 VAC/50 Hz	GY-01283-61	
-35 to 40°C	⅓	117 W	1081 W	10 L	115 VAC/60 Hz	GY-01283-70	
		100 W	924 W	(2.6 gal.)	240 VAC/50 Hz	GY-01283-71	



Waterless Bead Baths

Low maintenance, eco-friendly alternative to water baths

- Eco-friendly—use 50% less electricity and germicides are not required
- Beads hold things in place, eliminating the need for racks and weights
- Bath is always ready, eliminating warm-up times
- Save time—no more emptying, cleaning, and refilling

You are no longer limited to water-tight containers, so you can incubate multi-well plates, petri dishes, and open-top samples at any angle. Metallic beads have high thermal conductivity and are moisture and gas impermeable. These versatile beads can also be used in a container for freezers, ovens, and incubators.

What's included: stainless steel lid and power cord.



Metallic bath beads

Bath capacity	Bead fill line	Bath opening (L x W)	Working depth	Power		Bath with beads		Bath only	
				VAC	Hz	Catalog number	Price	Catalog number	Price
6 L	4 L	12" x 6" (30.5 x 15.2 cm)	6" (15.2 cm)	100 to 120	50/60	GY-10122-00		GY-10122-02	
				220 to 240	50/60	GY-10122-05		GY-10122-07	
14 L	12 L	12" x 12¼" (30.5 x 30.7 cm)	6" (15.2 cm)	100 to 120	50/60	GY-10122-10		GY-10122-12	
				220 to 240	50/60	GY-10122-15		GY-10122-17	
20 L	16 L	12" x 17½" (30.5 x 43.4 cm)	6" (15.2 cm)	100 to 120	50/60	GY-10122-20		GY-10122-22	
				220 to 240	50/60	GY-10122-25		GY-10122-27	

[GY-06274-50](#) Metallic bath beads, 2 L

[GY-06274-51](#) Metallic bath beads, 4 L

[GY-06274-52](#) Metallic bath beads, 8 L

Specifications

Temperature range:
ambient +5 to 80°C

Temperature uniformity:
±1.0°C @ 37°C

Temperature sensitivity:
±0.1°C

High-temperature cutoff: yes

Rack-Mount Thermoelectric Chiller

Get precise digital PID temperature control from 5 to 45°

NEW

- Energy-efficient point-of-use temperature control for diode lasers, CCD cameras, and lab instrumentation
- Direct keypad or USB computer-interface control



This chiller uses thermoelectric technology to deliver quiet, vibration-free cooling without the use of compressors or refrigerants. This versatile chiller is rack mountable for either a standard 19" rack or under a lab bench. Set temperature with keypad or use remote-control function with the USB interface. This energy-efficient unit has low power consumption for up to 80% energy savings. Fluid fittings are ⅜" NPT(F) standard for tubing; 27 to 50% glycol/water mix is recommended.

What's included: universal power cord.

Specifications

Temperature range: 5 to 45°C

Wetted materials: copper, polymers, and stainless steel

Alarms: low-level and temperature cutoff

Power: 100 to 240 VAC, 50/60 Hz

Description	Thermoelectric Chiller
Catalog number	GY-10122-60
Reservoir capacity	34 oz (1 L)
Temperature stability	±0.05°C
Cooling capacity at 20°C	380 W
Refrigerant	None
Pump type	Centrifugal
Max flow with water	2.5 LPM at 10 psig
Communication interface	USB
Process connections	⅜" NPT(F)
Price	

Fluidized Sand Bath System

Fast heat-ups and accurate temperature control to 600°C

- Dry, inert, nontoxic aluminum oxide ensures hazard-free operation
- Safer alternative to high temperature oil and salt baths

1. Sand Bath is ideal for heat treating processes, temperature sensor calibrations, and electrical component testing. Bath uses aluminum oxide (Al_2O_3) fluidized by low-pressure air as a dry bath medium with excellent heat transfer properties. Inert, nonflammable aluminum oxide (included) is safer to use than oil and will not corrode your sample vessels or produce toxic fumes.

Bath requires a dry air flow of approximately 3 cu ft/minute at about 3 psi pressure; order an air pump separately below. If your laboratory is equipped with an air line, it must be fitted with a filter and a pressure regulator; order below right.

What's included: bath includes 20-lb container of aluminum oxide, overspill flange, and universal power cord.



REQUIRED System Components

- 1) Sand bath
- 2) Temperature controller
- 3) Air pump



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CERTIFIED SUPPLIER



Temperature range	Optimum uniformity	Heaters	Heat-up times	Working area	Power (50/60 Hz)	Catalog number	Price
50 to 600°C (122 to 1112°F)	±0.5°C (±0.9°F)	2 x 750 W	6 min to 200°C 8 min to 350°C 22 min to 600°C	5 1/2" H x 7" dia (14 x 17.7 cm)	117 VAC	GY-01184-00	
					240 VAC	GY-01184-02	

GY-01184-58 Replacement aluminum oxide, 25 lbs

2. Temperature Controller integrates an air flowmeter and a PID temperature control with dual-setpoint programming to improve accuracy, increase temperature stability to ±0.2°C, and allow temperature settings to 1°C/°F. Includes a chromel/alumel type K thermocouple which fits into the bath's thermowell, and 10-ft of 3/8" tubing for air flow control.

Temperature range	Catalog number	Price
0 to 620°C (32 to 1148°F)	GY-01184-50	

3. Air Pump. When using intake filter, set pressure valve at 6 psi. For more vacuum/compressor pumps, see pages 1035–1048.

Motor hp	Power	Catalog number	Price
1/3	115 VAC, 60 Hz	GY-07055-04	
1/4	230 VAC, 50 Hz	GY-07055-35	

GY-01191-01 Air filter, use with lab air supply

GY-01191-02 Pressure regulator, use with lab air supply

Industrial Fluidized Sand Baths

Safe, efficient, and cost effective cleaning

- Removes plastics, paints, epoxy, rubber, adhesives, grease, lubricants, and oils
- Fast cleaning minimizes production equipment down-time

Industrial sand baths are ideal for heat-treatment cleaning, temperature calibrations, and reactive analysis (exothermic and endothermic reactions). They remove most polymers from tooling, including PVC, PET, PTFE, and PEEK without eroding the tool or mold. Easily set temperature for fast heat-ups to 600°C (1112°F) using the integral PID controller and standard type K thermocouple. Temperature stability of ±1.0°C at 450°C. Baskets are available for small parts.

Note: An air source required. See Item 3 above for ordering information.

What's included: 25 lb of aluminum oxide and 240 VAC power cord.

ISO9001:2008
CERTIFIED SUPPLIER

Temperature range	Stability at 450°C	Heat-up times	Load capacity gal. (L)	Working area	Power (50/60 Hz)	Catalog number	Price
50 to 600°C (122 to 1112°F)	±1.0°C	105 min to 450°C 150 min to 600°C	1 1/4 (5)	13"H x 9.5" dia. (33 x 24.1 cm)	240 VAC	GY-01184-10	
			9 3/4 (37)	26"H x 9.5" dia. (66 x 24.1 cm)	240 VAC	GY-01184-20	

Accessories

GY-01184-66 Basket for bath 01184-10

GY-01184-70 Basket for bath 01184-20



Baths & Circulators

Cole-Parmer® Plexiglas® Tanks

Withstand temperatures to 65°C

These lightweight tanks are ideal for a wide variety of processes. Use independently, or with a circulator or stirring device. Unique U-shaped end panels keep tank bottoms elevated to help maintain internal temperature. 1/4"-thick Plexiglas walls are durable, colorless, corrosion resistant, and easy to clean. Order racks for 6- or 8-L tanks below.

Capacity	Dimensions (L x W x H)	Catalog number	Price
6 L	13 ⁷ / ₈ " x 4 ³ / ₄ " x 5 ⁵ / ₁₆ " (35.2 x 12.1 x 15.1 cm)	GY-01137-02	
8 L	17 ³ / ₄ " x 4 ³ / ₄ " x 5 ⁵ / ₁₆ " (45.1 x 12.1 x 15.1 cm)	GY-01137-00	
16 L	18 ¹ / ₂ " x 7 ¹ / ₂ " x 10" (47.0 x 19.1 x 25.4 cm)	GY-01137-16†	
21 L	18" x 7 ¹ / ₂ " x 13 ¹ / ₈ " (45.7 x 19.1 x 33.3 cm)	GY-01137-18†	
27.5 L	20" x 8" x 12" (50.8 x 20.3 x 30.5 cm)	GY-01137-20†	

†These larger capacity models are not for use with the Plexiglas racks sold at right.

Plexiglas Racks for 6- and 8-L Tanks are available with different hole diameters to hold test tubes, scintillation vials, or 1.5-mL microcentrifuge tubes. Racks attach to the tank sides and suspend tubes or vials in bath. The 6-L tank holds up to three racks without a circulator or two racks with a circulator. The 8-L tank holds up to four racks without a circulator or three racks with a circulator.

Number of perforations	Minimum tube height	Maximum tube diameter	Dimensions (L x W x H)	Catalog number	Price
12	100 mm	22 mm	4 ⁹ / ₁₆ " x 4" x 4 ¹ / ₁₆ " (11.6 x 10.2 x 11.9 cm)	GY-01137-06	
20	110 mm	17 mm		GY-01137-08	
20	160 mm	18 mm		GY-01137-10	
30	75 mm	13 mm	4 ⁹ / ₁₆ " x 4" x 4 ¹ / ₁₆ " (11.6 x 10.2 x 11.9 cm)	GY-01137-12	
36	38 mm†	10 mm		GY-01137-14	

†Same size as 1.5-mL microcentrifuge tubes

Cole-Parmer®



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	GY-01294-60	GY-01297-00	GY-01294-40	GY-01294-00
Specific gravity	0.98	0.85	0.95	1.11
Temperature range	-65 to 280°C	-50 to 58°C	10 to 149°C	150 to 250°C
Freezing point	—	-60°C	-84°C	-22°C
Flash point	288°C	65°C	246°C	302°C
Viscosity	98 cp at 26°C	2.35 cp at 25°C	18.98 cp at 25°C	33 cp at 99°C
Quantity	1 gal. (3.8 L)	1 gal. (3.8 L)	1 gal. (3.8 L)	1 gal. (3.8 L)
Price				

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



Economical Hollow-Ball Bath Covers

Reduce vapor loss and cut heat loss by 75% with just one layer

Polypropylene balls form a tight cover over liquids to prevent change in temperature and reduce evaporation. Temperature range of balls is 0 to 110°C. Use instead of a bath lid with any of the baths and tanks within temperature range.

Ball diameter	10 mm	20 mm	20 mm	38 mm	38 mm
Catalog number	GY-06821-00	GY-06821-02	GY-06821-04	GY-06821-06	GY-06821-08
Balls per sq ft	1076	270	270	74	74
Specific gravity	0.38	0.24	0.24	0.16	0.16
Qty/pk	2500	500	2500	500	1000
Price/pk					

