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fluid handling and *analysis*

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600 options to maintain the right temperature

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Maintain the **right temperature** with the **right bath**

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Cole-Parmer® StableTemp® Economical Digital Utility Water Baths

NEW

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 ±0.1°C precision and overtemperature safety feature prevents overheating. Seamless tank eliminates rusting and is easy to clean.

ISO9001:2008 CERTIFIED SUPPLIER

Hinged polycarbonate lid allows condensation to flow back

StableTemp

Specifications

Temperature range: 5°C above ambient to 100°C
Temperature uniformity: ±0.2°C
Temperature stability: ±0.1°C
Wetted materials: 304 stainless steel
High-temperature cutoff: yes

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	3⅞" x 4⅝" (9.9 x 10.9 cm)	5½" (14 cm)	GB-14576-00		GB-14576-02	
5 L	5" x 10¹³⁄₁₆" (12.7 x 27.4 cm)	5½" (14 cm)	GB-14576-04		GB-14576-06	
10 L	10⅝" x 11⅝" (26.9 x 29.5 cm)	5½" (14 cm)	GB-14576-08		GB-14576-10	
20 L	9½" x 17½" (24.2 x 44.5 cm)	5" (12.7 cm)	GB-14576-12		GB-14576-14	
28 L	9½" x 17½"(24.2 x 44.5 cm)	7" (17.8 cm)	GB-14576-16		GB-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	±0.5°C	12⅝" x 6¾" (32.1 x 17.1 cm)	5¼" (13.3 cm)	GB-39064-10	
5.5 L, each chamber	Dual bath	±0.4°C	12⅝" x 6¾" (32.1 x 17.1 cm), each chamber	5¼" (13.3 cm), each chamber	GB-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 3–6

Immersion Circulators
Equipped with a heater, temperature controller, and a circulating pump, these circulators change any tank into a heated bath.
Pages 7–8

Circulating Baths
Reservoir provides area to temper samples along with integral pump which circulates fluid both internally and externally.
Pages 9–21

Recirculators
Easily circulate fluid to closed-loop applications with temperature ranges of –10 to 80°C—ideal for temperature control of equipment.
Pages 22–28

Specialty Baths
Testing and sample preparation baths including steaming baths for evaporation or distillation and forced age testing.
Pages 29–31

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Thermo Scientific™ Precision™ General-Purpose Digital Water Baths

Temper samples efficiently and easily

NEW

- Maintain water temperature from ambient to 100°C
- Prevent thermal runaway with built-in overtemperature safety circuitry
- Optimize your process with auto-on and auto-off timers
- Easy-to-clean, seamless stainless steel interior
- Increase your productivity with dual-chamber model
- Order optional stainless steel covers separately

What's included: clear polycarbonate gable cover, diffuser tray, and power cord.

Specifications

Temperature range: ambient to 100°C
Temperature uniformity at 70°C: ±0.2°C
Temperature stability at 70°C: ±0.1°C
Wetted materials: stainless steel
High-temperature cutoff: yes

Bath capacity	Bath opening (L x W)	Working depth	Power		Baths		Stainless steel covers		
			VAC	Hz	Catalog number	Price	Catalog number	For bath size	Price
2 L	6.1" x 5.4" (15.5 x 13.8 cm)	5.9" (15 cm)	120/230	50/60	GB-03710-90		GB-03710-73	2 L	
2 L, shallow	11.8" x 6" (29.9 x 15.3 cm)	2.6" (6.5 cm)	120/230	50/60	GB-03710-91		GB-03710-76	2 L, shallow	
5 L	11.8" x 6.1" (30 x 15.4 cm)	5.9" (15 cm)	120/230	50/60	GB-03710-92			5 L	
10 L	13" x 11.9" (33 x 30.1 cm)	5.9" (15 cm)	120/230	50/60	GB-03710-93		GB-03710-77	10 L	
20 L	19.7" x 11.7" (50 x 29.7 cm)	5.9" (15 cm)	120/230	50/60	GB-03710-94		GB-03710-78	20 L	
28 L	19.7" x 11.7" (50 x 29.7 cm)	7.9" (20 cm)	120/230	50/60	GB-03710-96			28 L	
Dual chambers: 5 L, 10 L	11.8" x 6.1" (30 x 15.4 cm), 13" x 11.9" (33 x 30.1 cm)	5.9" (15 cm)	120/230	50/60	GB-03710-97		GB-03710-76	5 L	
							GB-03710-77	10 L	

Thermo Scientific™ Precision™ Shaking Water Baths

Easily clean and maintain bath with coil-free design

NEW

- Gently warm and mix samples
- Heat smaller vessels with ease with the removable tray in shallow model—depth of 3½" (8.9 cm)
- Incubate samples in a controlled atmosphere—Dubnoff water bath has one large and two small gassing hoods
- Choose between 15- and 27-liter models

What's included: stainless steel gable cover, shaking tray, and power cord.

Specifications

Wetted materials: stainless steel
Low-level cutoff: yes

Bath capacity	Temperature range	Stability	Shaking speed	Bath opening (L x W)	Working depth	Power		Catalog number	Price
						VAC	Hz		
15 L	Ambient +5°C to 100°C	±0.1°C at 70°C	30 to 200 rpm	12" x 15.3" (30.6 x 38.9 cm)	5.6" (14.2 cm)	120/230	50/60	GB-12150-00	
27 L	Ambient +5°C to 100°C	±0.1°C at 70°C	30 to 200 rpm	12" x 27.3" (30.6 x 69.6 cm)	5.6" (14.2 cm)	120/230	50/60	GB-12150-01	
15 L, shallow	Ambient +5°C to 100°C	±0.1°C at 70°C	30 to 200 rpm	12" x 15.3" (30.6 x 38.9 cm)	5.6" (14.2 cm)	120/230	50/60	GB-12150-02	
15 L, Dubnoff	Ambient +5°C to 100°C	±0.1°C at 70°C	30 to 200 rpm	12" x 15.3" (30.6 x 38.9 cm)	5.6" (14.2 cm)	120/230	50/60	GB-12150-03	

GB-12150-04 **Test tube tray** for 13- to 25-mm test tubes; holds 10 tubes
GB-12150-05 **Flask tray** for 25-mL flasks; holds 18 flasks
GB-12150-06 **Flask tray** for 50-mL flasks; holds 10 flasks
GB-12150-07 **Individual test tube clip** for 13- to 25-mm test tubes
GB-12150-08 **Individual flask clip** for 25-mL flasks
GB-12150-09 **Individual flask clip** for 50-mL flasks
GB-12150-10 **Individual flask clip** for 125-mL flasks
GB-12150-11 **Individual flask clip** for 250-mL flasks
GB-12150-12 **Individual flask clip** for 500-mL flasks
GB-12150-13 **Individual flask clip** for 1000-mL flasks
GB-12150-14 **Fastener** for clips

Note: All accessories require fastener 12150-14 for clips.

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

Specifications

Temperature range: ambient +5 to 80°C
Temperature uniformity: ±1.0°C @ 37°C
Temperature sensitivity: ±0.1°C
High-temperature cutoff: yes

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	GB-10122-00		GB-10122-02	
				220 to 240	50/60	GB-10122-05		GB-10122-07	
14 L	12 L	12" x 12⅛" (30.5 x 30.7 cm)	6" (15.2 cm)	100 to 120	50/60	GB-10122-10		GB-10122-12	
				220 to 240	50/60	GB-10122-15		GB-10122-17	
20 L	16 L	12" x 17⅛" (30.5 x 43.4 cm)	6" (15.2 cm)	100 to 120	50/60	GB-10122-20		GB-10122-22	
				220 to 240	50/60	GB-10122-25		GB-10122-27	

GB-06274-50 **Metallic bath beads,** 2 L
GB-06274-51 **Metallic bath beads,** 4 L
GB-06274-52 **Metallic bath beads,** 8 L

Julabo SW-Series 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

ISO 9001:2008 CERTIFIED SUPPLIER

Specifications

Wetted materials: stainless steel
Drain valve: yes
Low-level cutoff: yes

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	19¾" x 11 13/16" (50 x 30 cm)	7⅛" (18 cm)	120, 60	GB-12149-00	
							240, 50	GB-12149-05	
20 L	Ambient to 99°C	±0.02°C	20 to 200 rpm	15 mm	19¾" x 11 13/16" (50 x 30 cm)	7⅛" (18 cm)	120, 60	GB-12149-10	
							240, 50	GB-12149-15	

GB-12149-50 **Lift-up bath cover,** transparent, for use to 80°C
GB-12149-52 **All-purpose tray with springs** for 25-mL to 1000-mL Erlenmeyer flasks
GB-12149-57 **Rack tray** for 360 microliter tubes, 11/12-mm dia
GB-12149-55 **Rack tray** for 360 test tubes, 12/13-mm dia
GB-12149-53 **Rack tray** for 240 test tubes, 16/17-mm dia
GB-12149-59 **Rack tray** for 84 test tubes, 30-mm dia

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Water Bath/Magnetic Stirrer Systems

Stir and heat in one unit

- Get precise control of mixing and temperature
- Use bath and stirrer separately or together
- Won't overheat—overcurrent protection and empty-boiling safety protection
- Easy-to-clean, heat and chemical resistant body

Specifications

Temperature control: liquid expansion thermostat
Temperature control accuracy: ±1.5°C at 60°C (in case of stirring)
Temperature uniformity: ±1°C at 60°C (in case of stirring)
Wetted materials: stainless steel

Bath 02918-05 shown with stirrer 04807-35

Bath capacity	Temperature range	Heat-up time†	Overall dimensions		Power (VAC, Hz)	Catalog number	Price	Compatible stirrer	
			Internal (W x H x D)	External (W x H x D)				Cat. no.	Price
3.8 L	Ambient +5 to 95°C	30 minutes	7⅛" x 4¾" x 7⅛" (18 x 12 x 18 cm)	10¼" x 6½" x 11⅝" (26 x 16.5 x 29.5 cm)	120, 60	GB-02918-01		GB-02918-10	
8 L	Ambient +5 to 95°C	55 minutes	8$^{11}/_{16}$" x 6$^{11}/_{16}$ x 8$^{11}/_{16}$" (22 x 17 x 22 cm)	11$^{13}/_{16}$" x 8½" x 13$^{3}/_{16}$" (30 x 21.5 x 33.5 cm)	120, 60	GB-02918-05		GB-04807-35	
12 L	Ambient +5 to 95°C	95 minutes	10⅝" x 6$^{11}/_{16}$" x 10⅝" (27 x 17 x 27 cm)	13¾" x 8½" x 15$^{3}/_{16}$" (35 x 21.5 x 38.5 cm)	120, 60	GB-02918-09			

†Approximate time from ambient to 95°C.

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
Cat. no.	GB-06821-00	GB-06821-02	GB-06821-04	GB-06821-06	GB-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					

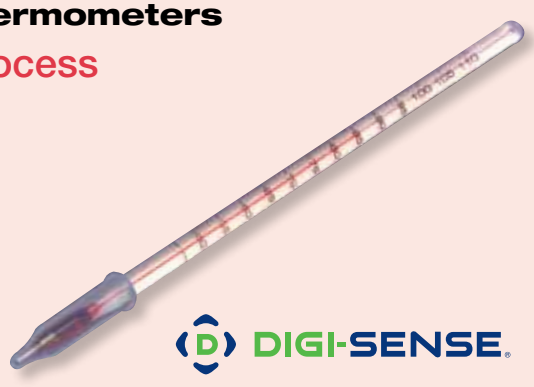
Digi-Sense® Red Spirit Bath/Incubator Thermometers

Eliminate hazardous mercury from your process

- Graduations won't rub off
- Easy-read design—red spirit against white background
- Individually serialized for better record keeping

Temperature range	Scale divisions	Accuracy	Length	Partial immersion		
				Catalog number	Immersion depth	Price
18 to 60°C	0.5°	±0.5°C	125 mm	GB-08006-09†	35 mm	
50 to 110°C	0.5°	±0.5°C	150 mm	GB-08006-12†	35 mm	
0 to 100°C	1°	±1°	225 mm	GB-08006-13‡	35 mm	

†PFA coated. ‡Arrows at 25, 30, 37 and 56°C.



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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 ±0.025° 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.

ISO9001:2008 CERTIFIED SUPPLIER

Specifications

Wetted materials: stainless steel, polymers **Immersion depth:** 5¾" (14.6 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
Immersion circulators with clamp for attachment to side of tank									
Standard	Ambient +10 to 100°C	±0.05°C	Force	4.5 (310)	17	Yes	115, 60	GB-12120-01	
							230, 50	GB-12120-02	
Standard Plus	Ambient +10 to 150°C	±0.05°C	Force	4.5 (310)	17	Yes	115, 60	GB-12120-03	
							230, 50	GB-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	±0.05°C	Force	4.5 (310)	17	Yes	115, 60	GB-12120-08	
							230, 50	GB-12120-09	
Standard Plus	Ambient +10 to 150°C	±0.05°C	Force	4.5 (310)	17	Yes	115, 60	GB-12120-11	
							230, 50	GB-12120-12	
Advanced	Ambient +10 to 200°C†	±0.025°C	Force/suction	10.8 (750)	21	Yes	115, 60	GB-12120-13	

†Pump at low speed

PolyScience® 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

ISO9001:2008 CERTIFIED SUPPLIER

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	±0.07°C	0.72 (49.6)	6	7½" (19 cm)	Yes	120, 60	GB-12101-62	
						240, 50	GB-12101-64	
Ambient +10 to 135°C	±0.07°C	1.8 (120)	12.8	7" (18.4 cm)	Yes	120, 60	GB-12101-61	
		1.5 (100)	10.6			240, 50	GB-12101-63	

Techne® 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: 7½-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

ISO 9001:2008 CERTIFIED SUPPLIER

Specifications

Wetted materials: 316 stainless steel and PPS (polyphenylene sulfide)
Immersion depth: 4" to 5" (10.2 to 12.7 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
Analog	Ambient +5 to 95°C	±0.01°C	Force	2.1 (145)	10	No	120, 50/60	GB-01262-01	
							240, 50/60	GB-01262-03	
Basic digital	Ambient +5 to 120°C	±0.01°C	Force	2.1 (145)	10	Yes	120, 50/60	GB-01262-05	
							240, 50/60	GB-01262-07	
Standard digital	Ambient +5 to 200°C	±0.005°C	Force	2.1 (145)	10	Yes	120, 50/60	GB-01262-13	
							240, 50/60	GB-01262-15	

Thermo Scientific™ Heated Immersion Circulators

Achieve 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	GB-12135-00	
							230, 50	GB-12135-05	
SC 150	Ambient +13 to 150°C	±0.02°C	Force	4.35 (300)	17	Yes	115, 60	GB-12135-10	
							230, 50	GB-12135-15	
SC 150L	Ambient +13 to 150°C	±0.02°C	Force	4.35 (300)	17	Yes	115, 60	GB-12135-20	
							230, 50	GB-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.

ISO9001:2008 CERTIFIED SUPPLIER

Specifications

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

Find even more online!
Go to ColeParmer.ca to see additional sizes.

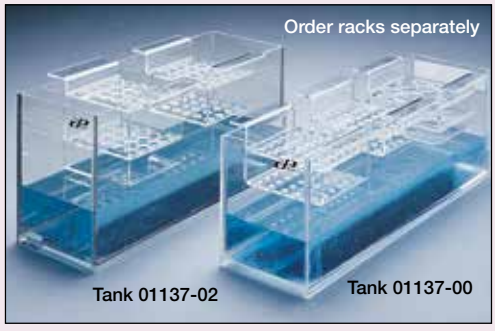
Bath capacity	Temperature range	Stability	Pump type	Max pump pressure psi (mbar)	Max flow (L/min)	Low-level cutoff	Working area (W x L x D)	Power (VAC, Hz)	Catalog number	Price
Acrylic heated circulating baths										
7 L	Ambient +10 to 80°C	±0.05°C	Force	4.4 (310)	17	Yes	8¾" x 5⅜" x 5⅞" (22.1 x 13.7 x 15 cm)	115, 60	GB-12134-00	
								230, 50	GB-12134-02	
12.8 L	Ambient +10 to 80°C	±0.05°C	Force	4.4 (310)	17	Yes	11¹³⁄₁₆" x 5¹³⁄₁₆" x 5⅞" (30 x 14.7 x 15 cm)	115, 60	GB-12134-04	
								230, 50	GB-12134-06	
PPO heated circulating baths										
5.3 L	Ambient +10 to 100°C	±0.05°C	Force	4.4 (310)	17	Yes	5³⁄₁₆" x 5³⁄₁₆" x 6⁵⁄₁₆" (13.2 x 13.2 x 16 cm)	115, 60	GB-12134-30	
								230, 50	GB-12134-32	
14.1 L	Ambient +10 to 100°C	±0.05°C	Force	4.4 (310)	17	Yes	11¹³⁄₁₆" x 6⅜" x 6⁵⁄₁₆" (30 x 16.2 x 16 cm)	115, 60	GB-12134-34	
								230, 50	GB-12134-36	

Cole-Parmer® Plexiglas® Tanks

Withstand temperatures to 65°C

Cole-Parmer®

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. ¼"-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	13⅞" x 4¾" x 5¹⁵⁄₁₆" (35.2 x 12.1 x 15.1 cm)	GB-01137-02	
8 L	17¾" x 4¾" x 5¹⁵⁄₁₆" (45.1 x 12.1 x 15.1 cm)	GB-01137-00	
16 L	18½" x 7½" x 10" (47.0 x 19.1 x 25.4 cm)	GB-01137-16†	
21 L	18" x 7½" x 13⅛" (45.7 x 19.1 x 33.3 cm)	GB-01137-18†	
27.5 L	20" x 8" x 12" (50.8 x 20.3 x 30.5 cm)	GB-01137-20†	

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

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	4⁹⁄₁₆" x 4" x 4¹¹⁄₁₆" (11.6 x 10.2 x 11.9 cm)	GB-01137-06	
20	110 mm	17 mm		GB-01137-08	
20	160 mm	18 mm	4⁹⁄₁₆" x 4" x 4¹¹⁄₁₆" (11.6 x 10.2 x 11.9 cm)	GB-01137-10	
30	75 mm	13 mm		GB-01137-12	
36	38 mm‡	10 mm		GB-01137-14	

‡Same size as 1.5-mL microcentrifuge tubes

Thermo Scientific™ SAHARA™ Heated Bath Circulators

Get versatility at an economical price

- Rotate and position head 90° for better viewing
- Choose the right vessel for your needs—transparent acrylic baths handle temperatures to 80°C, while PPO baths handle heat to 100°C

Standard Controllers (SC) feature an LCD with temperature and set point values displayed simultaneously in your 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.

Advanced Controllers (AC) have all the same features as the SC models plus a larger LCD and a powerful three-speed force/suction pump for external open and closed loop applications. Additional features include 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: 8- and 12-mm hose barb fittings with clamps for external circulation and 6-ft (1.8-m) power cord with plug.

Specifications

Temperature control: PID
Temperature sensor: Pt RTD
Heater wattage: 1200 W (115 VAC), 2000 W (230 VAC)
Wetted materials: stainless steel, polymers, acrylic or PPO (depending on model ordered)

Controller type	Bath capacity	Temperature range	Stability	Pump type	Max pump pressure psi (mbar)	Max flow (L/min)	Low-level cutoff	Dimensions		Power (VAC, Hz)	Catalog number	Price
								Working area (W x L x D)	Overall (W x L x H)			
Acrylic heated circulating baths												
SC 100	6 L	Ambient +13 to 80°C	±0.02°C	Force	4.4 (300)	17	No	5⅜" x 8¹³⁄₁₆" x 5⅞" (22.4 x 13.6 x 15 cm)	5 ⅞" x 16" x 13 ⅞" (15 x 40.6 x 35 cm)	115, 60	GB-12130-00	
										230, 50	GB-12130-05	
SC 100	12 L	Ambient +13 to 80°C	±0.02°C	Force	4.4 (300)	17	No	11⅞" x 5⅞" x 5⅞" (30 x 15 x 15 cm)	14" x 13¾" x 14" (35.6 x 34.8 x 35.6 cm)	115, 60	GB-12130-10	
										230, 50	GB-12130-15	
SC 100	19 L	Ambient +13 to 80°C	±0.02°C	Force	4.4 (300)	17	No	11⅞" x 12⅞" x 5⅞" (30 x 32.8 x 15 cm)	14" x 20¾" x 14" (35.6 x 52.6 x 35.6 cm)	115, 60	GB-12130-20	
										230, 50	GB-12130-25	
SC 150	6 L	Ambient +13 to 80°C	±0.02°C	Force	4.4 (300)	17	Yes	5⅜" x 8¹³⁄₁₆" x 5⅞" (22.4 x 13.6 x 15 cm)	5⅞" x 16" x 13⅞" (15 x 40.6 x 35 cm)	115, 60	GB-12130-50	
										230, 50	GB-12130-55	
SC 150	12 L	Ambient +13 to 80°C	±0.02°C	Force	4.4 (300)	17	Yes	11⅞" x 5⅞" x 5⅞" (30 x 15 x 15 cm)	14" x 13¾" x 14" (35.6 x 34.8 x 35.6 cm)	115, 60	GB-12130-60	
										230, 50	GB-12130-65	
SC 150	19 L	Ambient +13 to 80°C	±0.02°C	Force	4.4 (300)	17	Yes	11⅞" x 12⅞" x 5⅞" (30 x 32.8 x 15 cm)	14" x 20¾" x 14" (35.6 x 52.6 x 35.6 cm)	115, 60	GB-12130-70	
										230, 50	GB-12130-75	
AC 150	12 L	Ambient +13 to 80°C	±0.01°C	Force/ suction	11.7 (805)	21	Yes	11⅞" x 5⅞" x 5⅞" (30 x 15 x 15 cm)	14" x 13¾" x 15½" (35.6 x 34.8 x 39.4 cm)	115, 60	GB-12132-10	
										230, 50	GB-12132-15	
AC 150	19 L	Ambient +13 to 80°C	±0.01°C	Force/ suction	11.7 (805)	21	Yes	11⅞" x 12⅞" x 5⅞" (30 x 32.8 x 15 cm)	14" x 20¾" x 15½" (35.6 x 52.6 x 39.4 cm)	115, 60	GB-12132-20	
										230, 50	GB-12132-25	
AC 200	12 L	Ambient +13 to 80°C	±0.01°C	Force/ suction	11.7 (805)	21	Yes	11⅞" x 5⅞" x 5⅞" (30 x 15 x 15 cm)	14" x 13¾" x 15½" (35.6 x 34.8 x 39.4 cm)	115, 60	GB-12132-60	
										230, 50	GB-12132-65	
AC 200	19 L	Ambient +13 to 80°C	±0.01°C	Force/ suction	11.7 (805)	21	Yes	11⅞" x 12⅞" x 5⅞" (30 x 32.8 x 15 cm)	14" x 20¾" x 15½" (35.6 x 52.6 x 39.4 cm)	115, 60	GB-12132-70	
										230, 50	GB-12132-75	
PPO heated circulating baths												
SC 100	6 L	Ambient +13 to 100°C	±0.02°C	Force	4.4 (300)	17	No	5³⁄₁₆" x 5³⁄₁₆" x 6⁵⁄₁₆" (13.5 x 13.2 x 16 cm)	7³⁄₁₆" x 15⁵⁄₁₆" x 14³⁄₁₆" (18.3 x 38.9 x 36.1 cm)	115, 60	GB-12131-00	
										230, 50	GB-12131-05	
SC 100	14 L	Ambient +13 to 100°C	±0.02°C	Force	4.4 (300)	17	No	11¹³⁄₁₆" x 6³⁄₈" x 6⁵⁄₁₆" (30 x 16.3 x 16 cm)	14⅛" x 17¹³⁄₁₆" x 14³⁄₁₆" (35.8 x 45.2 x 36.1 cm)	115, 60	GB-12131-10	
										230, 50	GB-12131-15	
SC 100	21 L	Ambient +13 to 100°C	±0.02°C	Force	4.4 (300)	17	No	11¹³⁄₁₆" x 13⅜" x 6⁵⁄₁₆" (30 x 35.3 x 16 cm)	14⅛" x 25⁵⁄₁₆" x 14³⁄₁₆" (35.8 x 64.3 x 36.1 cm)	115, 60	GB-12131-20	
										230, 50	GB-12131-25	
SC 150	5 L	Ambient +13 to 100°C	±0.02°C	Force	4.4 (300)	17	Yes	5³⁄₁₆" x 5³⁄₁₆" x 6⁵⁄₁₆" (13.5 x 13.2 x 16 cm)	7³⁄₁₆" x 15⁵⁄₁₆" x 14³⁄₁₆" (18.3 x 38.9 x 36.1 cm)	115, 60	GB-12131-50	
										230, 50	GB-12131-55	
SC 150	14 L	Ambient +13 to 100°C	±0.02°C	Force	4.4 (300)	17	Yes	11¹³⁄₁₆" x 6³⁄₈" x 6⁵⁄₁₆" (30 x 16.3 x 16 cm)	14⅛" x 17¹³⁄₁₆" x 14³⁄₁₆" (35.8 x 45.2 x 36.1 cm)	115, 60	GB-12131-60	
										230, 50	GB-12131-65	
SC 150	21 L	Ambient +13 to 100°C	±0.02°C	Force	4.4 (300)	17	Yes	11¹³⁄₁₆" x 13⅜" x 6⁵⁄₁₆" 30 x 35.3 x 16 cm)	14⅛" x 25⁵⁄₁₆" x 14³⁄₁₆" (35.8 x 64.3 x 36.1 cm)	115, 60	GB-12131-70	
										230, 50	GB-12131-75	
AC 150	14 L	Ambient +13 to 100°C	±0.01°C	Force/ suction	11.7 (805)	21	Yes	11¹³⁄₁₆" x 6³⁄₈" x 6⁵⁄₁₆" (30 x 16.3 x 16 cm)	14⅛" x 17¹³⁄₁₆" x 15¾" (35.8 x 45.2 x 39.9 cm)	115, 60	GB-12133-10	
										230, 50	GB-12133-15	
AC 150	21 L	Ambient +13 to 100°C	±0.01°C	Force/ suction	11.7 (805)	21	Yes	11¹³⁄₁₆" x 13⅜" x 6⁵⁄₁₆" (30 x 35.3 x 16 cm)	14⅛" x 25⁵⁄₁₆" x 15¾" (35.8 x 64.3 x 39.9 cm)	115, 60	GB-12133-20	
										230, 50	GB-12133-25	
AC 200	14 L	Ambient +13 to 100°C	±0.01°C	Force/ suction	11.7 (805)	21	Yes	11¹³⁄₁₆" x 6³⁄₈" x 6⁵⁄₁₆" (30 x 16.3 x 16 cm)	14⅛" x 17¹³⁄₁₆" x 15¾" (35.8 x 45.2 x 39.9 cm)	115, 60	GB-12133-60	
										230, 50	GB-12133-65	
AC 200	21 L	Ambient +13 to 100°C	±0.01°C	Force/ suction	11.7 (805)	21	Yes	11¹³⁄₁₆" x 13⅜" x 6⁵⁄₁₆" (30 x 35.3 x 16 cm)	14⅛" x 25⁵⁄₁₆" x 15¾" (35.8 x 64.3 x 39.9 cm)	115, 60	GB-12133-70	
										230, 50	GB-12133-75	

Cole-Parmer® Polystat® Stainless Steel Heating Circulating Baths

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

These baths are ideal for applications with a wide variety of temperature control requirements up to 200°C. Available with tank capacities up to 19.6 L, the compact footprint maximizes bench space. Bright digital display allows for simple operation. Three languages: English, French, and German. Industrial grade circulating pumps deliver extra flow and pressure providing more efficient heat exchange, better temperature uniformity and improved reservoir agitation.

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.

What's included: lid, 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.

ISO 9001:2008 CERTIFIED SUPPLIER

Specifications

Temperature control: PID
Temperature sensor: Pt RTD
Heater wattage
Standard models: 1000 W (115 VAC); 1200 W (230 VAC)
Advanced models: 1200 W (115 VAC); 2000 W (230 VAC)
Wetted materials: stainless steel, polymers
Low-level cutoff: none

polystat®

Bath capacity	Temperature range	Stability	Pump type	Max pump pressure psi (mbar)	Max flow (L/min)	Dimensions		Power (VAC, Hz)	Catalog number	Price
						Working area (L x W x D)	Overall (L x W x H)			
Standard digital controller baths										
6.5 L	Ambient +10 to 100°C	±0.05°C	Force	4.5 (310)	17	4⅜" x 6⅜" x 5⅞" (11.2 x 16.3 x 15 cm)	14⁵⁄₁₆" x 8½" x 15⅝" (36.3 x 21.6 x 39.6 cm)	115, 60	GB-12134-60	
								230, 50	GB-12134-62	
6.5 L	Ambient +10 to 150°C	±0.05°C	Force	4.5 (310)	17	4⅜" x 6⅜" x 5⅞" (11.2 x 16.3 x 15 cm)	14⁵⁄₁₆" x 8½" x 15⅝" (36.3 x 21.6 x 39.6 cm)	115, 60	GB-12121-02	
								230, 50	GB-12121-04	
9.5 L	Ambient +10 to 100°C	±0.05°C	Force	4.5 (310)	17	4⅜" x 9⅜" x 5⅞" (11.2 x 23.9 x 15 cm)	14⁵⁄₁₆" x 11⅞" x 15⅝" (36.3 x 30.2 x 39.6 cm)	115, 60	GB-12134-64	
								230, 50	GB-12134-66	
9.5 L	Ambient +10 to 150°C	±0.05°C	Force	4.5 (310)	17	4⅜" x 9⅜" x 5⅞" (11.2 x 23.9 x 15 cm)	14⁵⁄₁₆" x 11⅞" x 15⅝" (36.3 x 30.2 x 39.6 cm)	115, 60	GB-12121-22	
								230, 50	GB-12121-24	
19.6 L	Ambient +10 to 100°C	±0.05°C	Force	4.5 (310)	17	12⁵⁄₁₆" x 11⅝" x 5⅞" (31.2 x 29.5 x 15 cm)	22⅛" x 14⁵⁄₁₆" x 15⅝" (56.1 x 36.3 x 39.6 cm)	115, 60	GB-12134-68	
								230, 50	GB-12134-70	
19.6 L	Ambient +10 to 150°C	±0.05°C	Force	4.5 (310)	17	12⁵⁄₁₆" x 11⅝" x 5⅞" (31.2 x 29.5 x 15 cm)	22⅛" x 14⁵⁄₁₆" x 15⅝" (56.1 x 36.3 x 39.6 cm)	115, 60	GB-12121-42	
								230, 50	GB-12121-44	
Advanced digital controller baths										
6.5 L	Ambient +10 to 200°C†	±0.025°C	Force/ suction	10.8 (750)	21	4⅜" x 6⅜" x 5⅞" (11.2 x 16.3 x 15 cm)	14⁵⁄₁₆" x 8½" x 16⁵⁄₁₆" (36.3 x 21.6 x 41.4 cm)	115, 60	GB-12121-06	
								230, 50	GB-12121-08	
9.5 L	Ambient +10 to 200°C†	±0.025°C	Force/ suction	10.8 (750)	21	4⅜" x 9⅜" x 5⅞" (11.2 x 23.9 x 15 cm)	14⁵⁄₁₆" x 11⅞" x 16⁵⁄₁₆" (36.3 x 30.2 x 41.4 cm)	115, 60	GB-12121-26	
								230, 50	GB-12121-28	
19.6 L	Ambient +10 to 200°C†	±0.025°C	Force/ suction	10.8 (750)	21	12⁵⁄₁₆" x 11⅝" x 5⅞" (31.2 x 29.5 x 15 cm)	22⅛" x 14⁵⁄₁₆" x 16⁵⁄₁₆" (56.1 x 36.3 x 41.4 cm)	115, 60	GB-12121-46	
								230, 50	GB-12121-48	

†Pump at low speed

Choose the Bath or Circulator that's Right for You!

Utility Baths
Maintain a few temperature set points over a long period of time.

Immersion Circulators
Change any tank into a heated bath with temperature control and pump.

Circulating Baths
Reservoir tempers samples and pump circulates fluid both internally and externally.

Recirculators
Circulated fluid to closed-loop applications with temperatures from –10 to 80°C.

Specialty Baths
Testing and sample preparation baths including steaming baths and more.

Thermo Scientific™ SAHARA™ Standard Stainless Steel Heated Circulating Baths

Control sample temperature accurately to 150°C

- Get fast and precise temperature control with microprocessor PID controller
- Reposition control head 90° for easier viewing
- View set and actual temperature in °C, °F, or K
- Select your fluid—unit is preprogrammed with temperature limits
- Heat external equipment with external loop circulation capabilities

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 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: bridge with gasket and thumbscrews, 8-mm and 12-mm hose barbs with clamps for external circulation, a 6-ft (1.8-m) power cord, and work area cover.

12140-20

12142-50

Specifications

Temperature control: PID
Temperature sensor: Pt RTD
Heater wattage: 1200 W (115 VAC); 2000 W (230 VAC)
Max pump flow: 17 L/min
Wetted materials: stainless steel, polymers

Controller type	Capacity	Temperature range	Stability	Lid	Pump type	Max pump pressure psi (mbar)	Low-level cutoff	Dimensions		Power (VAC, Hz)	Catalog number	Price
								Working area (W x L x D)	Overall (W x L x H)			
SC 100	6 L	Ambient +13 to 100°C	±0.02°C	Included	Force	4.35 (300)	No	6" x 4⅜" x 6" (15.2 x 11.1 x 15.2 cm)	9¼" x 16⅞" x 16" (23.5 x 42.9 x 40.6 cm)	115, 60	GB-12140-00	
										230, 50	GB-12140-05	
SC 100	8 L	Ambient +13 to 100°C	±0.02°C	Included	Force	4.35 (300)	No	6" x 4⅜" x 7⅜" (15.2 x 11.1 x 18.7 cm)	9¼" x 16⅞" x 18" (23.5 x 42.9 x 45.7 cm)	115, 60	GB-12140-10	
										230, 50	GB-12140-15	
SC 100	12 L	Ambient +13 to 100°C	±0.02°C	Included	Force	4.35 (300)	No	4⅜" x 9⅜" x 7⅞" (11.2 x 23.9 x 20.1 cm)	12⅝" x 16⅞" x 18" (32.1 x 42.9 x 45.7 cm)	115, 60	GB-12142-00	
										230, 50	GB-12142-05	
SC 100	17 L	Ambient +13 to 100°C	±0.02°C	Included	Force	4.35 (300)	No	11 13/16" x 5½" x 7 15/16" (30 x 14 x 20.1 cm)	15" x 18" x 18" (38.1 x 45.7 x 45.7 cm)	115, 60	GB-12142-10	
										230, 50	GB-12142-15	
SC 100	19 L	Ambient +13 to 100°C	±0.02°C	Included	Force	4.35 (300)	No	11¾" x 12⅜" x 5 15/16" (29.8 x 31.4 x 15.1 cm)	15" x 24¾" x 16" (38.1 x 62.9 x 40.6 cm)	115, 60	GB-12142-20	
										230, 50	GB-12142-25	
SC 100	26 L	Ambient +13 to 100°C	±0.02°C	Included	Force	4.35 (300)	No	11¾" x 12 5/16" x 7 15/16" (29.8 x 32.9 x 20.2 cm)	15" x 24¾" x 18" (38.1 x 62.9 x 45.7 cm)	115, 60	GB-12144-00	
										230, 50	GB-12144-05	
SC 150	6 L	Ambient +13 to 150°C	±0.02°C	Included	Force	4.35 (300)	Yes	6" x 4⅜" x 6" (15.2 x 11.1 x 15.2 cm)	9¼" x 16⅞" x 16" (23.5 x 42.9 x 40.6 cm)	115, 60	GB-12140-20	
										230, 50	GB-12140-25	
SC 150	8 L	Ambient +13 to 150°C	±0.02°C	Included	Force	4.35 (300)	Yes	6" x 4⅜" x 7⅜" (15.2 x 11.1 x 18.7 cm)	9¼" x 16⅞" x 18" (23.5 x 42.9 x 45.7 cm)	115, 60	GB-12140-30	
										230, 50	GB-12140-35	
SC 150	12 L	Ambient +13 to 150°C	±0.02°C	Included	Force	4.35 (300)	Yes	4⅜" x 9⅜" x 7⅞" (11.2 x 23.9 x 20.1 cm)	12⅝" x 16⅞" x 18" (32.1 x 42.9 x 45.7 cm)	115, 60	GB-12142-30	
										230, 50	GB-12142-35	
SC 150	17 L	Ambient +13 to 150°C	±0.02°C	Included	Force	4.35 (300)	Yes	11 13/16" x 5½" x 7 15/16" (30 x 14 x 20.1 cm)	15" x 18" x 18" (38.1 x 45.7 x 45.7 cm)	115, 60	GB-12142-40	
										230, 50	GB-12142-45	
SC 150	19 L	Ambient +13 to 150°C	±0.02°C	Included	Force	4.35 (300)	Yes	11¾" x 12⅜" x 5 15/16" (29.8 x 31.4 x 15.1 cm)	15" x 24¾" x 16⅛" (38.1 x 62.9 x 41 cm)	115, 60	GB-12142-50	
										230, 50	GB-12142-55	
SC 150	26 L	Ambient +13 to 150°C	±0.02°C	Included	Force	4.35 (300)	Yes	11¾" x 12 5/16" x 7 15/16" (29.8 x 32.9 x 20.2 cm)	15" x 24¾" x 18" (38.1 x 62.9 x 45.7 cm)	115, 60	GB-12144-30	
										230, 50	GB-12144-35	
SC 150L	8 L	Ambient +13 to 150°C	±0.02°C	Included	Force	4.35 (300)	Yes	6" x 4⅜" x 7⅜" (15.2 x 11.1 x 18.7 cm)	9¼" x 16⅞" x 18" (23.5 x 42.9 x 45.7 cm)	115, 60	GB-12140-40	
										230, 50	GB-12140-45	
SC 150L	12 L	Ambient +13 to 150°C	±0.02°C	Included	Force	4.35 (300)	Yes	4⅜" x 9⅜" x 7⅞" (11.2 x 23.9 x 20.1 cm)	12⅝" x 16⅞" x 18" (32.1 x 42.9 x 45.7 cm)	115, 60	GB-12142-60	
										230, 50	GB-12142-65	
SC 150L	17 L	Ambient +13 to 150°C	±0.02°C	Included	Force	4.35 (300)	Yes	11 13/16" x 5½" x 7 15/16" (30 x 14 x 20.1 cm)	15" x 18" x 18" (38.1 x 45.7 x 45.7 cm)	115, 60	GB-12142-70	
										230, 50	GB-12142-75	
SC 150L	26 L	Ambient +13 to 150°C	±0.02°C	Included	Force	4.35 (300)	Yes	11¾" x 12 5/16" x 7 15/16" (29.8 x 32.9 x 20.2 cm)	15" x 24¾" x 18" (38.1 x 62.9 x 45.7 cm)	115, 60	GB-12144-60	
										230, 50	GB-12144-65	

Thermo Scientific™ SAHARA™ Advanced Stainless Steel Heated Circulating Baths

Monitor and control temperatures to 200°C

- Heat external open or closed loop applications with powerful, three-speed force/suction pump
- Set temperatures accurately and quickly via microprocessor PID controller
- Rotate head 90° for better viewing of set and actual temperature

SAHARA baths with Advanced Controllers (AC) have all the same features as the SC models (on page 12) with a larger LCD. 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 barbs with clamps for external circulation, a 6-ft (1.8-m) power cord, and work area cover (except for 41-and 53-L baths).

Specifications

Temperature control: PID
Temperature sensor: Pt RTD
Heater wattage: 1200 W (115 VAC); 2000 W (230 VAC)
Max pump flow: 20 L/min
Wetted materials: stainless steel, polymers
Low-level cutoff: yes

Controller type	Capacity	Temperature range	Stability	Lid	Pump type	Max pump pressure psi (mbar)	Dimensions		Power (VAC, Hz)	Catalog number	Price
							Working area (W x L x D)	Overall (W x L x H)			
AC 150	6 L	Ambient +13 to 150°C	±0.01°C	Included	Force/ suction	11.6 (805)	6" x 4⅜" x 6" (15.2 x 11.2 x 15.2 cm)	9¼" x 16⅞" x 17½" (23.5 x 42.9 x 44.5 cm)	115, 60	GB-12141-00	
									230, 50/60	GB-12141-05	
AC 150	8 L	Ambient +13 to 150°C	±0.01°C	Included	Force/ suction	11.6 (805)	6" x 4⅜" x 7⅜" (15.2 x 11.2 x 18.7 cm)	9¼" x 16⅞" x 19½" (23.5 x 42.9 x 49.5 cm)	115, 60	GB-12141-10	
									230, 50/60	GB-12141-15	
AC 150	12 L	Ambient +13 to 150°C	±0.01°C	Included	Force/ suction	11.6 (805)	4⅜" x 9⅜" x 7⅞" (11.2 x 23.9 x 20.1 cm)	12⅝" x 16⅞" x 19½" (32.1 x 42.8 x 49.4 cm)	115, 60	GB-12143-00	
									230, 50/60	GB-12143-05	
AC 150	17 L	Ambient +13 to 150°C	±0.01°C	Included	Force/ suction	11.6 (805)	11¹³⁄₁₆" x 5½" x 7¹⁵⁄₁₆" (30 x 14 x 20.2 cm)	15" x 18" x 19½" (38.1 x 45.7 x 49.5 cm)	115, 60	GB-12143-10	
									230, 50/60	GB-12143-15	
AC 150	19 L	Ambient +13 to 150°C	±0.01°C	Included	Force/ suction	11.6 (805)	11¾" x 12⅜" x 5¹⁵⁄₁₆" (29.8 x 31.4 x 15.1 cm)	15" x 24¾" x 17⅝" (38.1 x 62.9 x 44.7 cm)	115, 60	GB-12143-20	
									230, 50/60	GB-12143-25	
AC 150	26 L	Ambient +13 to 150°C	±0.01°C	Included	Force/ suction	11.6 (805)	11¾" x 12⁵⁄₁₆" x 7¹⁵⁄₁₆" (29.8 x 31.2 x 20.2 cm)	15" x 24¾" x 19½" (38.1 x 62.9 x 49.5 cm)	115, 60	GB-12147-00	
									230, 50/60	GB-12147-05	
AC 150	41 L	Ambient +13 to 150°C	±0.01°C	Sold separately	Force/ suction	11.6 (805)	11¾" x 12⁵⁄₁₆" x 11¹³⁄₁₆" (29.8 x 31.2 x 30 cm)	15" x 24-3/4" x 23-3/8" (38.1 x 62.9 x 59.4 cm)	115, 60	GB-12147-10	
									230, 50/60	GB-12147-15	
AC 150	53 L	Ambient +13 to 150°C	±0.01°C	Sold separately	Force/ suction	11.6 (805)	19⁹⁄₁₆" x 16⅞" x 7⅞" (49.7 x 42.8 x 20.1 cm)	22¾" x 29⅜" x 19½" (57.8 x 74.6 x 49.5 cm)	115, 60	GB-12147-20	
									230, 50/60	GB-12147-25	
AC 200	6 L	Ambient +13 to 200°C	±0.01°C	Included	Force/ suction	11.6 (805)	6" x 4⅜" x 6" (15.2 x 11.2 x 15.2 cm)	9¼" x 16⅞" x 17½" (23.5 x 42.9 x 44.5 cm)	115, 60	GB-12141-20	
									230, 50/60	GB-12141-25	
AC 200	8 L	Ambient +13 to 200°C	±0.01°C	Included	Force/ suction	11.6 (805)	6" x 4⅜" x 7⅜" (15.2 x 11.2 x 18.7 cm)	9¼" x 16⅞" x 19½" (23.5 x 42.9 x 49.5 cm)	115, 60	GB-12141-30	
									230, 50/60	GB-12141-35	
AC 200	12 L	Ambient +13 to 200°C	±0.01°C	Included	Force/ suction	11.6 (805)	4⅜" x 9⅜" x 7⅞" (11.2 x 23.9 x 20.1 cm)	12⅝" x 16⅞" x 19½" (32.1 x 42.8 x 49.4 cm)	115, 60	GB-12143-30	
									230, 50/60	GB-12143-35	
AC 200	17 L	Ambient +13 to 200°C	±0.01°C	Included	Force/ suction	11.6 (805)	11¹³⁄₁₆" x 5½" x 7¹⁵⁄₁₆" (30 x 14 x 20.2 cm)	15" x 18" x 19½" (38.1 x 45.7 x 49.5 cm)	115, 60	GB-12143-40	
									230, 50/60	GB-12143-45	
AC 200	19 L	Ambient +13 to 200°C	±0.01°C	Included	Force/ suction	11.6 (805)	11¾" x 12⅜" x 5¹⁵⁄₁₆" (29.8 x 31.4 x 15.1 cm)	15" x 24¾" x 17⅝" (38.1 x 62.9 x 44.7 cm)	115, 60	GB-12143-50	
									230, 50/60	GB-12143-55	
AC 200	26 L	Ambient +13 to 200°C	±0.01°C	Included	Force/ suction	11.6 (805)	11¾" x 12⁵⁄₁₆" x 7¹⁵⁄₁₆" (29.8 x 31.2 x 20.2 cm)	15" x 24¾" x 19½" (38.1 x 62.9 x 49.5 cm)	115, 60	GB-12147-30	
									230, 50/60	GB-12147-35	
AC 200	41 L	Ambient +13 to 200°C	±0.01°C	Sold separately	Force/ suction	11.6 (805)	11¾" x 12⁵⁄₁₆" x 11¹³⁄₁₆" (29.8 x 31.2 x 30 cm)	15" x 24¾" x 23⅜" (38.1 x 62.9 x 59.4 cm)	115, 60	GB-12147-40	
									230, 50/60	GB-12147-45	
AC 200	53 L	Ambient +13 to 200°C	±0.01°C	Sold separately	Force/ suction	11.6 (805)	19⁹⁄₁₆" x 16⅞" x 7⅞" (49.7 x 42.8 x 20.1 cm)	22¾" x 29⅜" x 19½" (57.8 x 74.6 x 49.5 cm)	115, 60	GB-12147-50	
									230, 50/60	GB-12147-55	

GB-12142-26 **Lid;** stainless steel with handle for 41-L baths
GB-12144-26 **Lid;** stainless steel with handle for 53-L baths

Thermo Scientific™ SAHARA™ Premium Stainless Steel Heated Circulating Baths

Heat samples up to 300°C without worry

- Count on these baths to stand up to your demands—rugged, corrosion-resistant design
- Set and read display easily with large, high-resolution, full-color display
- Adjust settings and program baths easily with intuitive, 10-button keypad
- Rotate head 90° for easier viewing

SAHARA baths with Premium (PC) Controllers encompass all of the features of the SC and AC models (on pages 12–13), plus pump speed adjusts incrementally from 40% to 100% for flow and turbulence control. Additional features include ten 30-step ramp programs and temperature/program charting on the display.

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

Specifications

Heater wattage: 1200 W (115 VAC); 2000 W (230 VAC); 3000 W (200–230 VAC)

Wetted materials: stainless steel, polymers

Low-level cutoff: yes

Controller type	Capacity	Temperature range	Stability	Lid	Pump type	Max pump psi (mbar)	Max flow (L/min)	Dimensions		Power (VAC, Hz)	Catalog number	Price
								Working area (W x L x D)	Overall (W x L x H)			
PC 200	8 L	Ambient +13 to 200°C	±0.01°C	Included	Force/ suction	13.6 (940)	24	6" x 4⅜" x 7¼" (15.2 x 11.2 x 18.4 cm)	9¼" x 16⅞" x 19⅞" (23.5 x 42.9 x 49.4 cm)	115, 50/60	GB-12148-00	
										230, 50/60	GB-12148-02	
PC 200	12 L	Ambient +13 to 200°C	±0.01°C	Included	Force/ suction	13.6 (940)	24	4⅜" x 9⅞" x 7⅞" (11.2 x 23.9 x 20 cm)	12⅝" x 16⅞" x 19⅞" (32.1 x 42.8 x 49.4 cm)	115, 50/60	GB-12148-04	
										230, 50/60	GB-12148-06	
PC 200	17 L	Ambient +13 to 200°C	±0.01°C	Included	Force/ suction	13.6 (940)	24	11¹³⁄₁₆" x 5½" x 7¹⁵⁄₁₆" (30 x 14 x 20.2 cm)	15" x 18" x 19⅞" (38.1 x 45.7 x 49.4 cm)	115, 50/60	GB-12148-08	
										230, 50/60	GB-12148-10	
PC 200	26 L	Ambient +13 to 200°C	±0.01°C	Included	Force/ suction	13.6 (940)	24	11¹¹⁄₁₆" x 12¼" x 7⅞" (29.7 x 31.1 x 20 cm)	15" x 24¾" x 19⅞" (38.1 x 62.9 x 49.4 cm)	115, 50/60	GB-12148-12	
										230, 50/60	GB-12148-14	
PC 300	8 L	Ambient +13 to 300°C	±0.01°C	Included	Force/ suction	13.6 (940)	24	6" x 4⅜" x 7¼" (11.2 x 15.2 x 18.5 cm)	9¼" x 16⅞" x 19⅞" (23.5 x 42.9 x 49.4 cm)	200–230, 50/60	GB-12148-24	
	12 L							9⅞" x4⅜" x 7⅞" (11.2 x 23.9 x 20 cm)	12⅝" x 16⅞" x 19⅞" (32.1 x 42.8 x 49.4 cm)		GB-12148-26	

PolyScience® Coliform Testing Circulating Bath

Test samples while complying with EPA Total Coliform Rule (TCR) requirement

ISO9001:2008 CERTIFIED SUPPLIER

- No need to program—controller preset at 44.5°C
- Ensure uniform bath temperature with integral recirculating pump
- Make sure your testing conforms to EPA, APHA, AWWA, and WEF testing regulations for fecal coliform contamination testing
- View and adjust temperature and set point easily from 10 to 135°C on large digital display

This simple-to-use bath is equipped with a tilting, see-through polycarbonate cover which drains back into the bath when opened. The lid is gabled to allow for taller vessels. An integral one-speed (simplex) pump can be used to circulate the bath liquid to other instruments using a closed-loop configuration. A port in the top deck accommodates an optional tap-water cooling coil. All wetted components are corrosion-resistant stainless steel and high-performance polymer.

What's included: gabled cover, perforated stainless steel sample tray, thermometer retaining clip, and 6-ft (1.8-m) power cord with plug.

Description	Coliform testing circulating bath	
Catalog number	GB-12105-80	GB-12105-82
Bath capacity	28 L	
Temperature range	Ambient +10 to 135°C	
Temperature stability	0.07°C	
Temperature control	PID	
Temperature setting	Digital	
Temperature display	LCD, °C or °F to 0.1°	
Temperature sensor	Pt RTD	
Heater wattage	1100 W	
Pump flow rate	12.8 L/min	10.6 L/min
Wetted materials	Stainless steel, high-performance polymer	
High-temperature cutoff	Adjustable	
Drain valve	No	
Working area dimensions (W x L x D)	12⅞" x 11¹³⁄₁₆" x 8⅝" (32.8 x 30 x 21.1 cm)	
Overall dimensions (W x L x H)	13⅞" x 21½" x 18" (35.2 x 54.6 x 45.7 cm)	
Power (VAC, Hz)	120, 60	240, 50
Price		

PolyScience® Heating Circulating Baths

Easily view extra-large backlit digital display from across a room

- Eliminate set point overshoot and ensure constant temperature with advanced PID algorithms
- Don't get burned—chemical-resistant top plate remains cool even at high temperatures
- View at almost any angle—waterproof control panel swivels 180°
- Don't fumble with another lid—unique LidDock® system stores the lid in open position
- Control external open- and closed-loop applications with optional force/suction pumps

12119-04

12119-20

Basic and Standard Digital Controllers are manufactured with the EasyView™ LCD measuring 3¼" (8.25 cm) for the Basic controller and 3¾" (8.25 cm) for the Standard. The Basic controller reaches a maximum temperature of 135°C and has a single-speed pump. The 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. These SmartTouch models are the ultimate in icon-driven, user friendly operation! Simply touch the screen to scroll through the menus, functions, and options—even when wearing gloves. This touch-screen digital display allows easy monitoring of both the set value and actual value. Touch and scroll operation with visual prompts make setup and operational changes simple and straightforward. View screen text in 11 languages. Data trending is visibly tracked on the display.

Performance Programmable Controller includes all the Performance Digital Controller features and adds 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 a memory stick.

ISO 9001:2008 CERTIFIED SUPPLIER

Specifications

Temperature control: PID
Temperature sensor: Pt RTD
Heater wattage: 1200 W (115 VAC); 2000 W (230 VAC)
Max pump flow: 20 L/min
Wetted materials: stainless steel, polymers
Low-level cutoff: yes

Bath capacity	Temperature range	Stability	Pump type	Max pump psi (mbar)	Max flow (L/min)		Dimensions		Power (VAC, Hz)	Catalog number	Price
					Pressure	Suction	Working area (L x W x D)	Overall (L x W x H)			
Basic digital controller baths											
7 L	Ambient +10 to 135°C	±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)	19 5/8" x 8 11/16" x 17 3/16" (49.9 x 22.1 x 43.7 cm)	120, 60	GB-12119-00	
				1.5 (100)	10.6	—			240, 50	GB-12119-01	
Standard digital controller baths											
15 L	Ambient +10 to 170°C	±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)	22 3/8" x 14 1/2" x 16 9/16" (56.9 x 36.8 x 42.2 cm)	120, 60	GB-12119-06	
				2.9 (200)	10.2	—			240, 50	GB-12119-07	
20 L	Ambient +10 to 170°C	±0.04°C	Force	3.5 (240)	11	—	9 7/8" x 12 7/16" x 5 1/2" (25 x 31.6 x 14 cm)	24" x 16 1/2" x 16 9/16" (61 x 41.9 x 42.2 cm)	120, 60	GB-12119-12	
				2.9 (200)	10.2	—			240, 50	GB-12119-13	
28 L	Ambient +10 to 170°C	±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)	26 1/2" x 18" x 16 9/16" (67.2 x 45.7 x 42.2 cm)	120, 60	GB-12119-18	
				2.9 (200)	10.2	—			240, 50	GB-12119-19	
Performance digital controller baths											
7 L	Ambient +10 to 200°C	±0.005°C	Force/ suction	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)	19 5/8" x 8 11/16" x 17 3/16" (49.9 x 22.1 x 43.7 cm)	120, 60	GB-12119-02	
				3.6 (250)	16.7	12.2			240, 50	GB-12119-03	
15 L	Ambient +10 to 200°C	±0.005°C	Force/ suction	4.3 (300)	20.1	14.7	8 3/8" x 10 7/8" x 5 1/2" (21.2 x 27.6 x 14 cm)	22 3/8" x 14 1/2" x 16 9/16" (56.9 x 36.8 x 42.2 cm)	120, 60	GB-12119-08	
				3.6 (250)	16.7	12.2			240, 50	GB-12119-09	
20 L	Ambient +10 to 200°C	±0.005°C	Force/ suction	4.3 (300)	20.1	14.7	9 7/8" x 12 7/16" x 5 1/2" (25 x 31.6 x 14 cm)	24" x 16 1/2" x 16 9/16" (61 x 41.9 x 42.2 cm)	120, 60	GB-12119-14	
				3.6 (250)	16.7	12.2			240, 50	GB-12119-15	
28 L	Ambient +10 to 200°C	±0.005°C	Force/ suction	4.3 (300)	20.1	14.7	12 3/8" x 14 1/8" x 5 1/2" (31.4 x 35.9 x 14 cm)	26 1/2" x 18" x 16 9/16" (67.2 x 45.7 x 42.2 cm)	120, 60	GB-12119-20	
				3.6 (250)	16.7	12.2			240, 50	GB-12119-21	
Performance programmable controller baths											
7 L	Ambient +10 to 200°C	±0.005°C	Force/ suction	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)	19 5/8" x 8 11/16" x 17 3/16" (49.9 x 22.1 x 43.7 cm)	120, 60	GB-12119-04	
				3.6 (250)	16.7	12.2			240, 50	GB-12119-05	
15 L	Ambient +10 to 200°C	±0.005°C	Force/ suction	4.3 (300)	20.1	14.7	8 3/8" x 10 7/8" x 5 1/2" (21.2 x 27.6 x 14 cm)	22 3/8" x 14 1/2" x 16 9/16" (56.9 x 36.8 x 42.2 cm)	120, 60	GB-12119-10	
				3.6 (250)	16.7	12.2			240, 50	GB-12119-11	
20 L	Ambient +10 to 200°C	±0.005°C	Force/ suction	4.3 (300)	20.1	14.7	9 7/8" x 12 7/16" x 5 1/2" (25 x 31.6 x 14 cm)	24" x 16 1/2" x 16 9/16" (61 x 41.9 x 42.2 cm)	120, 60	GB-12119-16	
				3.6 (250)	16.7	12.2			240, 50	GB-12119-17	
28 L	Ambient +10 to 200°C	±0.005°C	Force/ suction	4.3 (300)	20.1	14.7	12 3/8" x 14 1/8" x 5 1/2" (31.4 x 35.9 x 14 cm)	26 1/2" x 18" x 16 9/16" (67.3 x 45.7 x 42.2 cm)	120, 60	GB-12119-22	
				3.6 (250)	16.7	12.2			240, 50	GB-12119-23	

Thermo Scientific™ ARCTIC™ Standard Cooling/Heating Circulating Baths

Monitor and control temperatures from –28 to 150°C

- Get fast and precise temperature control with PID controller
- Reposition control head 90° for easier viewing
- View set and actual temperature in °C, °F, or K
- Select your fluid—unit is preprogrammed with temperature limits
- Heat or cool external equipment with external loop circulation capabilities

ARCTIC baths with Standard Controllers (SC) feature an LCD with temperature and set point values displayed simultaneously, and a two-speed force pump for excellent temperature uniformity.

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.

What's included: 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.

12126-00

Specifications

Temperature stability: ±0.02°C
Temperature control: PID
Temperature sensor: Pt RTD
Heater wattage: 1200 W (115 VAC); 2000 W (230 VAC)
Max pump pressure: 4.35 psi (300 mbar)
Max pump flow: 17 L/min
Wetted materials: stainless steel, polymers

Wait! There's More...
Find Bath Fluids on page 18.

Bath capacity	Temperature range	Cooling capacity at 20°C	Low-level cutoff	Lid	Dimensions		Power (VAC, Hz)	Catalog number	Price
					Working area (W x L x D)	Overall (W x L x H)			
SC 100 controller baths									
6 L	–10 to 100°C	240 W	No	Included	5⅜" x 4⅞" x 5⅞" (14 x 12 x 15 cm)	16⅝" x 8¾" x 24⅞" (41.4 x 22.1 x 63.2 cm)	115, 60	GB-12126-10	
							230, 50	GB-12126-15	
10 L	–28 to 100°C	320 W	No	Included	6¹³⁄₁₆" x 5" x 8" (17 x 13 x 20 cm)	16¹³⁄₁₆" x 20¼" x 20½" (43 x 51.4 x 52 cm)	115, 60	GB-12126-00	
							230, 50	GB-12126-05	
10 L	–28 to 100°C	320 W	No	Included	6¹³⁄₁₆" x 5" x 8" (17 x 13 x 20 cm)	19" x 10¾" x 28" (48.3 x 27.2 x 71.1 cm)	115, 60	GB-12126-30	
							230, 50	GB-12126-35	
12 L	–25 to 100°C	500 W	No	Included	6¹³⁄₁₆" x 7⅜" x 8" (17 x 18 x 20 cm)	19" x 10¾" x 28" (48.3 x 27.2 x 71.1 cm)	115, 60	GB-12126-20	
							230, 50	GB-12126-25	
21 L	–5 to 100°C	200 W	No	Sold separately	11¾" x 7½" x 7⅞" (30 x 19 x 20 cm)	29⅛" x 16⅞" x 18½" (73.9 x 42.9 x 47 cm)	115, 60	GB-12125-00	
							230, 50	GB-12125-05	
21 L	–25 to 100°C	500 W	No	Included	8¹³⁄₁₆" x 9⅝" x 9³⁄₁₆" (22 x 24 x 23 cm)	21⅝" x 12⅝" x 29⅛" (54.1 x 31.2 x 73.9 cm)	115, 60	GB-12125-20	
							230, 50	GB-12125-25	
30 L	–10 to 100°C	250 W	No	Sold separately	11¾" x 13⅞" x 7⅞" (30 x 35.1 x 20 cm)	35⅞" x 16⅞" x 18½" (91.2 x 42.7 x 47 cm)	115, 60	GB-12125-10	
							230, 50	GB-12125-15	
SC 150 controller baths									
6 L	–10 to 100°C	240 W	Yes	Included	5⅜" x 4⅞" x 5⅞" (14 x 12 x 15 cm)	16⅝" x 8¾" x 24⅞" (41.4 x 22.1 x 63.2 cm)	115, 60	GB-12127-10	
							230, 50	GB-12127-15	
10 L	–28 to 150°C	320 W	Yes	Included	6¹³⁄₁₆" x 5" x 8" (17 x 13 x 20 cm)	16¹³⁄₁₆" x 20¼" x 20½" (43 x 51.4 x 52 cm)	115, 60	GB-12127-00	
							230, 50	GB-12127-05	
10 L	–28 to 150°C	320 W	Yes	Included	6¹³⁄₁₆" x 5" x 8" (17 x 13 x 20 cm)	19" x 10¾" x 28" (48.3 x 27.2 x 71.1 cm)	115, 60	GB-12127-30	
							230, 50	GB-12127-35	
12 L	–25 to 150°C	500 W	Yes	Included	6¹³⁄₁₆" x 7⅜" x 8" (17 x 18 x 20 cm)	19" x 10¾" x 28" (48.3 x 27.2 x 71.1 cm)	115, 60	GB-12127-20	
							230, 50	GB-12127-25	
21 L	–5 to 100°C	200 W	Yes	Sold separately	11¾" x 7½" x 7⅞" (30 x 19 x 20 cm)	29⅛" x 16⅞" x 18½" (73.9 x 42.9 x 47 cm)	115, 60	GB-12125-50	
							230, 50	GB-12125-55	
21 L	–25 to 150°C	500 W	Yes	Included	8¹³⁄₁₆" x 9⅝" x 9³⁄₁₆" (22 x 24 x 23 cm)	21⅝" x 12⅝" x 29 ⅛" (54.1 x 31.2 x 73.9 cm)	115, 60	GB-12125-70	
							230, 50	GB-12125-75	
30 L	–10 to 100°C	250 W	Yes	Sold separately	11¾" x 13⅞" x 7⅞" (30 x 35.1 x 20 cm)	35⅞" x 16⅞" x 18½" (91.2 x 42.7 x 47 cm)	115, 60	GB-12125-60	
							230, 50	GB-12125-65	

Accessories

GB-12125-06 **Stainless steel bath lid,** flat with handle; for 21-L baths
GB-12125-16 **Stainless steel bath lid,** flat with handle; for 30-L baths

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.

polystat®

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Specifications

Temperature control: PID
Temperature sensor: Pt RTD

Heater wattage
Standard models: 1000 W (115 VAC); 1200 W (230 VAC);
Advanced models: 1200 W (115 VAC); 2000 W (230 VAC)

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

Bath capacity	Temperature range	Stability	Cooling capacity at 20°C	Pump type	Max pump pressure psi (mbar)	Max pump flow (L/min)	Dimensions		Power (VAC, Hz)	Catalog number	Price
							Working area (W x L x D)	Overall (W x L x H)			
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)	8" x 16 3/8" x 24 1/2" (20.3 x 41.7 x 62.2 cm)	115, 60	GB-12122-02	
									230, 50	GB-12122-04	
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)	18 3/8" x 16 3/8" x 16 13/16" (46.7 x 41.7 x 42.7 cm)	115, 60	GB-12122-16	
									230, 50	GB-12122-18	
8.6 L	–28 to 100°C	±0.05°C	500 W	Force	4.4 (310)	17	6 13/16" x 7 3/16" x 5 7/8" (17.3 x 18.3 x 15 cm)	10 3/16" x 19 5/16" x 25 5/8" (25.9 x 49 x 65 cm)	115, 60	GB-12122-32	
									230, 50	GB-12122-34	
8.6 L	–28 to 150°C	±0.05°C	500 W	Force	4.4 (310)	17	6 13/16" x 7 3/16" x 5 7/8" (17.3 x 18.3 x 15 cm)	10 3/16" x 19 5/16" x 25 5/8" (25.9 x 49 x 65 cm)	115, 60	GB-12122-36	
									230, 50	GB-12122-38	
8.6 L	–35 to 100°C	±0.05°C	800 W	Force	4.4 (310)	17	6 13/16" x 7 3/16" x 5 7/8" (17.3 x 18.3 x 15 cm)	14 5/8" x 20 13/16" x 27 1/8" (37.1 x 52.8 x 68.8 cm)	115, 60†	GB-12122-46	
									230, 50†	GB-12122-48	
8.6 L	–35 to 150°C	±0.05°C	800 W	Force	4.4 (310)	17	6 13/16" x 7 3/16" x 5 7/8" (17.3 x 18.3 x 15 cm)	14 5/8" x 20 13/16" x 27 1/8" (37.1 x 52.8 x 68.8 cm)	115, 60†	GB-12122-52	
									230, 50†	GB-12122-54	
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)	8" x 16 3/8" x 24 1/2" (20.3 x 41.7 x 62.2 cm)	115, 60	GB-12122-12	
									230, 50	GB-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)	18 3/8" x 16 3/8" x 16 13/16" (46.7 x 41.7 x 42.7 cm)	115, 60	GB-12122-26	
									230, 50	GB-12122-28	
8.6 L	–28 to 200°C	±0.025°C	500 W	Force/ suction	11.7 (750)	21	6 13/16" x 7 3/16" x 5 7/8" (17.3 x 18.3 x 15 cm)	10 3/16" x 19 5/16" x 25 5/8" (25.9 x 49 x 65 cm)	115, 60	GB-12122-42	
									230, 50	GB-12122-44	
8.6 L	–35 to 200°C	±0.025°C	800 W	Force/ suction	11.7 (750)	21	6 13/16" x 7 3/16" x 5 7/8" (17.3 x 18.3 x 15 cm)	14 5/8" x 20 13/16" x 27 1/8" (37.1 x 52.8 x 68.8 cm)	115, 60†	GB-12122-56	
									230, 50†	GB-12122-58	

†Requires 20 amp current.

Choose the Bath or Circulator that's Right for You!

Utility Baths
Maintain a few temperature set points over a long period of time.

Immersion Circulators
Change any tank into a heated bath with temperature control and pump.

Circulating Baths
Reservoir tempers samples and pump circulates fluid both internally and externally.

Recirculators
Circulated fluid to closed-loop applications with temperatures from –10 to 80°C.

Specialty Baths
Testing and sample preparation baths including steaming baths and more.

Thermo Scientific™ ARCTIC™ Advanced Cooling/Heating Circulating Baths

Maintain sample temperatures accurately from –28 to 200°C

– Ensure quick, accurate temperature setting via microprocessor PID controller
– Rotate head 90° for easier viewing

ARCTIC baths with Advanced Controllers (AC) have all the same features as the SC models (on page 16) with a larger LCD, plus includes a powerful three-speed force/suction pump for external open and closed loop applications. Additional features include 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: control cables, bridge with gasket and thumbscrews, 8-mm and 12-mm hose barbs with clamps for external circulation, and 6-ft (1.8-m) power cord.

Specifications

Temperature stability: ±0.01°C
Temperature control: PID
Temperature sensor: Pt RTD
Heater wattage: 1200 W (115 VAC); 2000 W (230 VAC)
Max pump pressure: 11.7 psi (805 mbar)
Max pump flow: 20 L/min
Wetted materials: stainless steel, polymers
Low-level cutoff: yes

Bath capacity	Temperature range	Cooling capacity at 20°C	Lid	Dimensions		Power (VAC, Hz)	Catalog number	Price
				Working area (W x L x D)	Overall (L x W x H)			
AC 150 controller baths								
6 L	–10 to 100°C	240 W	Included	5⅜" x 4⅞" x 5⅞" (14 x 12 x 15 cm)	16⅝" x 8¾" x 26⅜" (41 x 22 x 67 cm)	115, 60	GB-12129-10	
						230, 50	GB-12129-15	
10 L	–28 to 150°C	320 W	Included	6¹³⁄₁₆" x 5" x 8" (17 x 13 x 20 cm)	16¹³⁄₁₆" x 20¼" x 22" (43 x 51 x 56 cm)	115, 60	GB-12129-00	
						230, 50	GB-12129-05	
12 L	–25 to 150°C	500 W	Included	6¹³⁄₁₆" x 7³⁄₁₆" x 8" (17 x 18 x 20 cm)	19" x 10¾" x 29½" (48 x 27 x 75 cm)	115, 60	GB-12129-20	
						230, 50	GB-12129-25	
21 L	–25 to 150°C	500 W	Included	8¹³⁄₁₆" x 9⅝" x 9³⁄₁₆" (22 x 24 x 23 cm)	21⅝" x 12¾" x 30⅝" (54 x 32 x 78 cm)	115, 60	GB-12145-20	
						230, 50	GB-12145-25	
30 L	–10 to 100°C	250 W	Sold separately	11¾" x 13⅜" x 7⅞" (30 x 34 x 20 cm)	36" x 16⅞" x 20" (91 x 43 x 51 cm)	115, 60	GB-12145-10	
						230, 50	GB-12145-15	
AC 200 controller baths								
6 L	–10 to 100°C	240 W	Included	5⅜" x 4⅞" x 5⅞" (14 x 12 x 15 cm)	16⅝" x 8¾" x 26⅜" (41 x 22 x 67 cm)	115, 60	GB-12136-10	
						230, 50	GB-12136-15	
10 L	–28 to 200°C	320 W	Included	6¹³⁄₁₆" x 5" x 8" (17 x 13 x 20 cm)	16¹³⁄₁₆" x 20¼" x 22" (43 x 51 x 56 cm)	115, 60	GB-12136-00	
						230, 50	GB-12136-05	
10 L	–28 to 200°C	320 W	Included	6¹³⁄₁₆" x 5" x 8" (17 x 13 x 20 cm)	19" x 10¾" x 29½" (48 x 27 x 75 cm)	115, 60	GB-12136-30	
						230, 50	GB-12136-35	
12 L	–25 to 200°C	500 W	Included	6¹³⁄₁₆" x 7³⁄₁₆" x 8" (17 x 18 x 20 cm)	19" x 10¾" x 29½" (48 x 27 x 75 cm)	115, 60	GB-12136-20	
						230, 50	GB-12136-25	
21 L	–25 to 200°C	500 W	Included	8¹³⁄₁₆" x 9⅝" x 9³⁄₁₆" (22 x 24 x 23 cm)	21⅝" x 12¾" x 30⅝" (54 x 32 x 78 cm)	115, 60	GB-12145-70	
						230, 50	GB-12145-75	
30 L	–10 to 100°C	250 W	Sold separately	11¾" x 13⅜" x 7⅞" (30 x 34 x 20 cm)	36" x 16⅞" x 20" (91 x 43 x 51 cm)	115, 60	GB-12145-60	
						230, 50	GB-12145-65	

GB-12125-16 **Stainless steel bath lid,** flat with handle; for 30-L baths

Dow Corning® 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	GB-01294-60	GB-01297-00	GB-01294-40	GB-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.

PolyScience® 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.

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	GB-12210-00	
					1.5 (100)	10.6		240, 50	GB-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	GB-12210-06	
					1.5 (100)	10.6		240, 50	GB-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	GB-12210-18	
					2.9 (200)	10.2		240, 50	GB-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	GB-12210-36	
					2.9 (200)	10.2		240, 50	GB-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	GB-12210-02	
					3.6 (250)	16.7		240, 50	GB-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	GB-12210-14	
					3.6 (250)	16.7		240, 50	GB-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	GB-12210-20	
					3.6 (250)	16.7		240, 50	GB-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	GB-12210-26	
					3.6 (250)	16.7		240, 50	GB-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	GB-12210-38	
					3.6 (250)	16.7		240, 50	GB-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	GB-12210-04	
					3.6 (250)	16.7		240, 50	GB-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	GB-12210-28	
					3.6 (250)	16.7		240, 50	GB-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	GB-12210-40	
					3.6 (250)	16.7		240, 50	GB-12210-41	

†(SS) Space-saving ‡(LP) Low-profile

Concentrated Lab Algicide

– Keep your baths sparkling clean and free from contaminants

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	GB-08796-00	

Thermo Scientific™ VersaCool™ Refrigerated Circulating Bath

Temper more samples simultaneously

NEW

- "Headless" design creates space for more samples while maintaining a small footprint
- Ingenious VersaLid 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 or user programmed 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 VersaRack holder is designed to hold a wide range of beaker and test tube sizes.

What's included: VersaLid 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	GB-12128-80	

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

GB-12128-85 **VersaRack adjustable holder,** stainless steel
GB-12128-86 **Gable cover,** added height accommodates two 500-mL Erlymeyer flasks
GB-12128-87 **Trolley,** 17 7/8" W x 23 1/8" L, steel with locking casters
GB-12128-88 **Auto refill option** for high-temperature applications
GB-12128-89 **Replacement plumbing adapter kit,** stainless steel

Thermo Scientific™ ARCTIC™ Premium Stainless Steel Cooling/Heating Circulating Baths

Heat or cool samples from –50 to 200°C

- Quickly adjust temperature via microprocessor PID controller
- Rotate head 90° for easier viewing of set and actual temperature

ARCTIC baths with Premium Controllers (PC) encompass all of the features of the SC and AC models (on pages 16 and 18), 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.

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: ±0.01°C
Temperature control: PID
Temperature sensor: Pt RTD
Heater wattage: 1200 W (115 VAC); 2000 W (230 VAC)
Max pump pressure: 11.7 psi (805 mbar)
Max pump flow: 24 L/min
Wetted materials: stainless steel, polymers
Low-level cutoff: yes

Bath capacity	Temperature range	Cooling capacity at 20°C	Dimensions		Power (VAC, Hz)	Catalog number	Price
			Working area (W x L x D)	Overall (L x W x H)			
10 L	–28 to 200°C	320 W	6 13/16" x 5 1/8" x 8" (17.3 x 12.9 x 20.4 cm)	16 3/4" x 20 3/16" x 22" (42.4 x 51.3 x 55.9 cm)	115, 60	GB-12129-06	
					230, 50	GB-12129-08	
10 L	–28 to 200°C	320 W	6 13/16" x 5 1/8" x 8" (17.3 x 12.9 x 20.4 cm)	19" x 10 3/4" x 29 1/2" (48.3 x 27.2 x 74.9 cm)	115, 60	GB-12129-16	
					230, 50	GB-12129-18	
12 L	–25 to 200°C	500 W	6 13/16" x 7 3/16" x 8" (17.3 x 18.4 x 20.4 cm)	19" x 10 3/4" x 29 1/2" (48.3 x 27.2 x 74.9 cm)	115, 60	GB-12129-12	
					230, 50	GB-12129-14	
12 L	–40 to 200°C	900 W	6 13/16" x 7 3/16" x 8" (17.3 x 18.4 x 20.4 cm)	20 3/8" x 15 3/16" x 31" (51.8 x 38.6 x 78.7 cm)	115, 60	GB-12129-22	
					230, 50	GB-12129-24	
12 L	–50 to 200°C	1000 W	8 13/16" x 4 3/4" x 7 7/8" (22.4 x 11.9 x 20.1 cm)	21 13/16" x 16 1/2" x 33 1/2" (55.4 x 41.9 x 85.1 cm)	230, 50	GB-12129-26	
					208–230/60	GB-12129-28	
27 L	–24 to 200°C	900 W	11 3/4" x 12 5/16" x 8" (29.7 x 31.3 x 20.3 cm)	24" x 30" x 24 1/8" (61 x 76.2 x 61.2 cm)	115, 60	GB-12129-02	
					230, 50	GB-12129-04	

Thermo Scientific™ Ultra-Low Temperature Circulating Baths

Achieve cooling of external applications down to –80°C or –90°C

- Digital temperature controller with RS-232 and analog interface ports
- Remote sensory capability
- User-adjustable high/low temperature safety

These circulating baths are designed to achieve low temperatures and maintain excellent temperature stability for consistent results. Digital temperature controller provides precise set point and readout to a resolution of 0.01°C. Cascade refrigeration system provides precise temperature control and optimal stability. Automatic load reset compensates for changes in bath load, eliminating shifts in set point accuracy.

What's included: bath cover and 6-ft (1.8-m) power cord.

Model		ULT 80		ULT 90	
Catalog number		GB-13400-04	GB-13400-06	GB-13400-00	GB-13400-02
Bath capacity		15.1 L	15.1 L	15.1 L	15.1 L
Temperature range		–80 to 10°C	–80 to 80°C	–90 to –30°C	–90 to –30°C
Temperature stability		±0.03°C	±0.03°C	±0.02°C	±0.02°C
Cooling capacity	At –70°C	250 W	250 W	—	—
	At –80°C	—	—	350 W	280 W
Pump pressure	Max head at 0 flow	12 psi (827 mbar)	12 psi (827 mbar)	31 psi (2137 mbar)	21 psi (1448 mbar)
	Max flow at 0 head	10 L/min	10 L/min	16 L/min	12.4 L/min
Bath opening (L x W x H)		5⅜" x 7" x 9½" (13.7 x 17.8 x 24.1 cm)		2" diameter fill port	2" diameter fill port
Low-level cutoff		Yes	Yes	Yes	Yes
Power (VAC, Hz)		208 to 230, 60	208 to 230, 60	208 to 230, 50/60	220 to 240, 50/60
Price					

Dow Corning® Bath Fluids

Get more out of your bath!

Fluid type	Silicone 210	Dynalene® HK-50	Silicone 200 20 (hot)	Silicone 710 (hot)
Catalog number	GB-01294-60	GB-01297-00	GB-01294-40	GB-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.

Choose the Bath or Circulator that's Right for You!

Utility Baths
Maintain a few temperature set points over a long period of time.

Immersion Circulators
Change any tank into a heated bath with temperature control and pump.

Circulating Baths
Reservoir tempers samples and pump circulates fluid both internally and externally.

Recirculators
Circulated fluid to closed-loop applications with temperatures from –10 to 80°C.

Specialty Baths
Testing and sample preparation baths including steaming baths and more.

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®

ISO 9001:2008 CERTIFIED SUPPLIER

Description	Refrigerated tank	
Catalog number	GB-12110-00	GB-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 11¾" x 7¾" (22.9 x 29.8 x 19.7 cm)	
Tank working depth	7¾" (19.7 cm)	
Power (VAC, Hz)	120, 60	230, 50
Price		

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®

ISO 9001:2008 CERTIFIED SUPPLIER

Description	Air-cooled recirculator	
Catalog number	GB-12930-00	GB-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		

Recirculators

PolyScience® Benchtop Recirculating Chillers

Simple operation and maintenance

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

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).

ISO 9001:2008 CERTIFIED SUPPLIER

Temperature range	Temperature stability	Tank capacity	Refrigerant	Pump type	Cooling capacity (watts) –10°C	0°C	20°C	Max pump pressure psi (mbar)	Max flow GPM (L/min)	Power (VAC, Hz, amps)	Catalog number	Price
–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	GB-12930-10	
					435	680	1160	5.5 (400)	3.4 (12.9)	240, 50, 6	GB-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	GB-12930-30	
					460	700	1190	10.5 (720)	3.1 (11.7)	240, 50, 6	GB-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	GB-12930-38	
					140	250	520	4.4 (300)	1.8 (6.8)	240, 50, 5	GB-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	GB-12930-42	
					110	170	390	12.5 (860)	3.0 (11.4)	240, 50, 5	GB-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	GB-12930-46	
					—	190	410	4.4 (300)	1.8 (6.8)	240, 50, 4.5	GB-12930-48	

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 ±0.1°C and pumps to 21 L/min
– Includes funnel and 8- and 12-mm hose barb fittings

polystat®

Specifications

Internal reservoir capacity: 2.8 **Temperature stability:** ±0.1°

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	GB-13042-01	
					230, 50	GB-13042-03	
250 W	–10 to 80°C	Force/suction	11.7 (805)	21	115, 60	GB-13042-05	
					230, 50	GB-13042-07	
500 W	–10 to 80°C	Force	4.4 (300)	17	115, 60	GB-13042-17	
					230, 50	GB-13042-19	
500 W	–10 to 80°C	Force/suction	11.7 (805)	21	115, 60	GB-13042-21	
					230, 50	GB-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 ½" 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	¼	200	475	700	95 (6550)	6.4 L/min	115, 60, 9.8	GB-12911-00	
			175	410	600			230, 50, 5.1	GB-12911-02	
7.6 L	–10 to 30°C	⅓	275	415	1000	95 (6550)	6.4 L/min	115, 60, 13.2	GB-12911-04	
			240	375	900			230, 50, 6.3	GB-12911-06	
7.6 L	–10 to 30°C	⅓	275	415	1000	95 (6550)	14 L/min	115, 60, 15.5	GB-12911-08	
			240	375	900			230, 50, 7.6	GB-12911-10	
7.6 L	–10 to 30°C	⅓	275	415	1000	7 (483)	13.2 L/min	115, 60, 11.5	GB-12911-12	
			240	375	900	5 (345)	12.3 L/min	230, 50, 5.6	GB-12911-14	
18.9 L	–10 to 30°C	¾	375	1100	2000	95 (6550)	6.4 L/min	208–230, 60, 8.8	GB-12911-16	
			325	1025	1900			230, 50, 8.8	GB-12911-18	
18.9 L	–10 to 30°C	¾	375	1100	2000	95 (6550)	14 L/min	208–230, 60, 10.1	GB-12911-20	
			325	1025	1900			230, 50, 10.1	GB-12911-22	

Julabo Presto® Temperature Control Circulator Systems

Get precise control of external temperature applications with 0.01°C stability

- Achieve highest accuracy with 3-point calibration and self-optimizing PID control
- Extremely fast heat-up and cool-down times
- Single bath fluid over a wide range of working temperatures
- No condensation or ice build-up with rapid cool down
- Multiple communication interfaces permit remote control across networks

Ideal for controlling the temperature of jacketed reaction vessels, material stress tests, or temperature simulation, these circulating systems can quickly counteract exothermic and endothermic reaction temperature changes. They deliver extraordinary power over a wide temperature range.

Color touch-screen TFT display offers a well-organized view of important information and user-friendly navigation in eight languages. Choose from preset display layouts or customize the display with readings, graphs, and critical information for a specific application. Features include password protection with user levels, high temperature and low-level early warnings and cutoffs, and “black box” diagnosis for errors.

System design features whisper-quiet operation, space-saving footprint with no vents or connections on the side, retractable handles and casters for easy portability, top filling funnel with fill indicator, and hydraulic seals to prevent vapors. Maintenance-free circulating pumps generate the desired pressure and dynamically compensate for viscosity changes in the heat transfer fluid (except 12149-02 and -04). Available with air or water cooling; the water-cooling units need to be connected to an existing water line.

Easily access interface for SD memory card, USB, Ethernet, RS-232 and alarm output. Connections for external Pt 100 probe (order sensor 12149-78 separately below) and other accessory inputs and outputs. Optional communication protocols are also available; contact our Application Specialists.

What's included: 6-ft (1.8-m) power cord.

Specifications

Temperature stability: ±0.01°C
Wetted materials: stainless steel
Low-level cutoff: yes
Drain valve: yes

ISO9001:2008 CERTIFIED SUPPLIER

Bath capacity	Temperature range	Cooling capacity (watts) –10°C	0°C	20°C	Heating capacity (watts)	Max pump pressure psi (mbar)	Max flow (L/min)	Dimensions (W x H x D)	Power (VAC, Hz)	Catalog number	Price
Air-cooled models											
2.4 L	–30 to 250°C	300	400	500	2300	7.25 (500)	25	9½" x 24" x 22⅞ " (24.1 x 61 x 58.2 cm)	208, 60	GB-12149-02	
									230, 50	GB-12149-04	
3.5 L	–40 to 250°C	800	900	1200	2300	18.8 (1296)	38	12¹¹⁄₁₆" x 26 x 22⅞" (32.3 x 66 x 58.2 cm)	208, 60	GB-12149-06	
									230, 50	GB-12149-08	
3.9 L	–80 to 250°C	1100	1200	1200	1500	18.8 (1296)	38	16⅞" x 49½" x 25⅝" (42.9 x 125.7 x 65 cm)	208, 60	GB-12149-16	
									230, 50	GB-12149-18	
3.9 L	–80 to 250°C	1100	1200	1200	2800	18.8 (1296)	38	16⅞" x 49½" x 25⅝" (42.9 x 125.7 x 65 cm)	208, 60	GB-12149-60	
									230, 50	GB-12149-62	
Water-cooled models											
3.5 L	–40 to 250°C	800	1000.0	1200	2300	18.8 (1296)	38	12¹¹⁄₁₆" x 26 x 22⅞" (32.3 x 66 x 58.2 cm)	208, 60	GB-12149-12	
									230, 50	GB-12149-14	
3.9 L	–80 to 250°C	1100	1200	1200	1500	18.8 (1296)	38	16⅞" x 49½" x 25⅝" (42.9 x 125.7 x 65 cm)	208, 60	GB-12149-26	
									230, 50	GB-12149-28	
3.9 L	–80 to 250°C	1100	1200	1200	2800	18.8 (1296)	38	16⅞" x 49½" x 25⅝" (42.9 x 125.7 x 65 cm)	208, 60	GB-12149-64	
									230, 50	GB-12149-66	

GB-12149-78 **Temperature sensor;** PT 100 stainless steel, 20 cm L x 0.6 cm dia
GB-12149-71 **Bath fluid, P60;** temperature range –60 to 250°C. 18.9-gal. (5-L) container
GB-12149-72 **Bath fluid, P90;** temperature range –90 to 170°C. 18.9-gal. (5-L) container

PolyScience® 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 ½" 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 18.

What's included: male pipe adapters with barbed fittings for ½" 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

ISO 9001:2008 CERTIFIED SUPPLIER

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	¼	300	700	950	Centrifugal	10 (690)	15.5 L/min	120, 60, 9.5	GB-12910-01	
		400	600	800		9.5 (660)	14.7 L/min	240, 50, 5.6	GB-12910-02	
–10 to 40°C	⅓	700	1000	1430	Centrifugal	10 (690)	15.5 L/min	120, 60, 10.4	GB-12910-03	
		600	960	1180		9.5 (660)	14.7 L/min	240, 50, 5.9	GB-12910-04	
–10 to 40°C	½	850	1250	1800	Centrifugal	10 (690)	15.5 L/min	120, 60, 13.2	GB-12910-06	
		765	1140	1775		9.5 (660)	14.7 L/min	240, 50, 7.2	GB-12910-07	
–10 to 40°C	¾	975	1550	2350	Centrifugal	10 (690)	15.5 L/min	230, 60, 9.2	GB-12910-08	
		1075	1600	2250		9.5 (660)	14.7 L/min	240, 50, 9.2	GB-12910-09	
–10 to 70°C	¾	975	1550	2350	Centrifugal	10 (690)	15.5 L/min	230, 60, 9.5	GB-12910-18	
		1075	1600	2250		9.5 (660)	14.7 L/min	240, 50, 9.5	GB-12910-19	
–10 to 40°C	½	750	1150	1700	Turbine	100 (6900)	13.25 L/min	120, 60, 16	GB-12930-78	
		765	1140	1775		83 (5700)	11 L/min	240, 50, 8.9	GB-12930-80	
–10 to 40°C	1	1000	1925	2900	Turbine	100 (6900)	13.25 L/min	230, 60, 12.2	GB-12930-86	
		1200	1900	2650		83 (5700)	11 L/min	240, 50, 12.2	GB-12930-88	

Huber Minichiller® 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
- Stainless steel construction is rugged and durable

NEW

The Minichiller recirculating chiller is available as an air-cooled or water-cooled unit. Choose air cooled for initial savings or water cooled for greater efficiency and lower operating costs. The models with output communicate with PCs and printers via an RS-232 interface. Select a heated model to expand the maximum temperature range to 100°C.

Microprocessor-based 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	GB-12751-01		GB-12751-05	
							230, 50	GB-12751-21		GB-12751-06	
						RS-232	150, 60	GB-12751-02		GB-12751-25	
							230, 50	GB-12751-22		GB-12751-26	
–20 to 100°C	0.1°C	±0.5°C	300 W	200 W	140 W	—	150, 60	GB-12751-03		—	
							230, 50	GB-12751-23		—	
						RS-232	150, 60	GB-12751-04		—	
							230, 50	GB-12751-24		—	

Thermo Scientific™ ThermoFlex™ Recirculating Chillers

Configurable 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.

ISO 9001:2008 CERTIFIED SUPPLIER

Specifications

Reservoir capacity: 7.2 L
Temperature stability: ±0.1°C
Temperature range: 5 to 40°C

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

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

Solid-State Recirculating Chiller

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

Solid-state unit contains no refrigerant and has no compressor—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.

ISO 9001:2008 CERTIFIED SUPPLIER

Description		Solid-state chiller
Catalog number		GB-12751-00
Reservoir capacity		8 oz (237 mL)
Temperature range		–5 to 45°C
Temperature stability		±0.1°C
Cooling capacity	At 0°C	225 W
	At –10°C	145 W
	At –20°C	100 W
Refrigerant		None
Pressure pump	Max flow, 0 head	2.7 L/min
	Max head, 0 flow	8 psi
Power (VAC, Hz, amps)		115/230, 50/60, 7.5
Price		

Accessories

GB-06360-87 **Plastic quick-disconnect fitting** for models 12751-00 and -10, ⅜" barb (male) x ¼" (flow)

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Recirculators

Thermo Scientific™ Merlin™ Recirculating Chillers

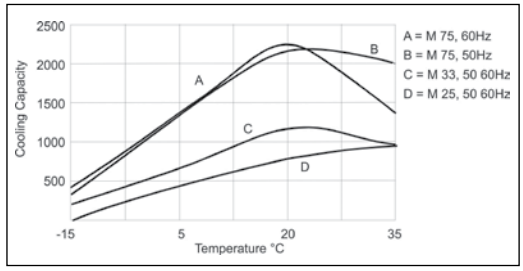
Maintain precise temperature control for critical application needs

- Check liquid level and fluid condition at a glance via translucent reservoir
- Set to 1°C or 0.1°C on the intuitive digital display controller
- Removable grille allows for quick and easy preventive maintenance
- Ensure user safety with global compliance

Compact, portable recirculating chillers are ideal for applications requiring heat removal across a wide temperature range. Offering five cooling capacities with a temperature range from –15°C to 35°C, the chiller platform provides powerful cooling in a reliable and compact design. The PWM valve regulates the amount of cooling required in relation to the amount of heat being removed, eliminating on/off cycling and premature wear of the compressor. Highly functional, configurable controller features a user-adjustable low- and high-temperature safety with audible alarm. The positive displacement (PD) pump design ensures longer industrial-grade pumping. All models have USB connections.

A variety of additional options—including low-level or low-flow indicators, air filters, and state-of-the-art device communication—let you configure these chillers for a wide range of application requirements. Contact our Application Specialists for details.

What's included: Power cord with plug.



Cooling curves for Merlin recirculators

ISO9001:2008 CERTIFIED SUPPLIER

Specifications

Reservoir capacity: 1.8 L
Refrigerant: R-134a
Temperature range: –15 to 35°C

Temperature stability	Compressor hp	Pump type†	Cooling capacity (watts) 5°C	10°C	20°C	Maximum head at 0 flow	Maximum flow at 0 head	Power VAC	Hz	Amps	Catalog number	Price
M25 model												
±0.1°C	¼	PD 1	350	500	810	85 psi (5860 mbar)	6.75 L/min	115	60	10	GB-13401-50	
M33 models												
±0.1°C	⅓	PD 1	490	800	1250	85 psi (5860 mbar)	6.75 L/min	115	60	13	GB-13401-54	
			500	750	1125		5.5 L/min	230	50	7	GB-13401-56	
±0.1°C	⅓	PD 2	490	800	1250	85 psi (5860 mbar)	15.1 L/min	115	60	13	GB-13401-58	
			500	750	1125		12.5 L/min	230	50	7	GB-13401-60	
M75 models												
±0.15°C	¾	PD 2	1150	1750	2410	85 psi (5860 mbar)	15.1 L/min	208 to 230	60	9	GB-13401-62	
			1250	1600	2180		12.5 L/min	230	50	9	GB-13401-64	
M150 models												
±0.15°C	1½	PD 2	1750	3500	5045	85 psi (5860 mbar)	15.1 L/min	208 to 230	60	15	GB-13401-70	
			1200	3000	4540		12.5 L/min	230	50	16	GB-13401-72	

†PD 1 = lower flow rates; PD 2 = higher flow rates

Accessories

GB-13401-32 **Plumbing package** provides tubing, insulation, and connectors for easy installation

Can't choose?

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

800-363-5900 info@coleparmer.ca ColeParmer.ca

Katie, 5 years of experience

Cole-Parmer® Polystat® Refrigerated Chillers with Immersion Probe

Quickly chill liquids in beakers, flasks, or open baths

These chillers are so easy to use! Just turn them on and immerse the stainless steel probe in up to 10 L of your fluid (3 L for models 01283-60 and -61).

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. All models are designed to run at maximum cooling rate.

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.

ISO9001:2008 CERTIFIED SUPPLIER

Description		3 L		10 L	
Catalog number		GB-01283-60	GB-01283-61	GB-01283-70	GB-01283-71
Temperature range		–60 to –20°C		–35 to 40°C	
Compressor		¼ hp		⅓ hp	
Cooling capacity	At –30°C	125 W	104 W	117 W	100 W
	At 20°C	—		1081 W	924 W
Refrigerant		R502 and R50813		R-134a	
Max bath size		3 L		10 L	
Probe dimensions (L x OD)		15" x 1½" (38.1 x 3.8 cm)		17" x 3" (43.2 x 7.6 cm)	
Power (VAC, Hz, amps)		115, 60, 5	240, 50, 2.5	115, 60, 5	240, 50, 2.5
Price					

Julabo FL-Series Recirculating Industrial Chillers

Reach temperatures down to –20°C

- Powerful circulating pumps with gauge and by-pass valve to adjust pressure
- Overload protection for pump motor and cooling unit
- "Black box" function with error memory for remote diagnosis
- Environmentally friendly operation with low energy consumption

Easy-to-setup PID temperature control with an LED display and a one point temperature calibration provide maximum accuracy. RS-232 interface allows quick temperature data transfer.

These powerful recirculating chillers are ergonomically designed for easy operation. Features include rollers for easy movement; easy filling with fill-level indicator; accessible drain tap; no side vents, so can be placed against other instruments; and removable grid venting makes it easy to keep the condenser clean and running at full cooling capacity.

Choose from air- and water-cooled models. See our full offering at ColeParmer.com.

What's included: two barbed fittings for ¾" ID tubing for pump connections and 6-ft (1.8-m) power cord.

ISO9001:2008 CERTIFIED SUPPLIER

Specifications

Reservoir capacity: 30 L
Temperature range: –20 to 40°C
Temperature stability: ±0.5°C
Wetted materials: stainless steel
Drain valve: yes

Cooling capacity (watts)			Max pump pressure psi (mbar)	Max flow (L/min)	Power (VAC, Hz)	Catalog number	Price
–10°C	0°C	20°C					
Air-cooled models							
1.2	1.5	2.5	2900	40	120, 60	GB-12149-20	
					240, 50	GB-12149-22	
1.5	2.4	4	2900	40	120, 60	GB-12149-24	
					240, 50	GB-12149-25	
Water-cooled models							
1.0	1.7	2.7	2900	40	120, 60	GB-12149-30	
					240, 50	GB-12149-32	
1.3	2.2	4.3	2900	40	120, 60	GB-12149-34	
					240, 50	GB-12149-36	

Denali R4 Rack-Mount Thermoelectric Chiller

Get precise digital PID temperature control from 5 to 45°C

- Energy-efficient point-of-use temperature control for diode lasers, CCD cameras, and lab instrumentation
- Direct keypad or USB computer-interface control
- No compressors or refrigerant

NEW

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	GB-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	

Krüss PT31 Water Bath with Peltier Thermostat

Control temperature of sensitive instruments accurately

Use this electronic water bath with Peltier thermostat to control the temperature of refractometers, polarimeters, and other temperature-critical equipment.

The bath is easy to operate with three-button control. Simply connect tubing, fill to the line with distilled water, and switch on to operate. Small footprint saves laboratory bench space.

What's included: 5-ft (1.5 m) L universal power cord.

Specifications

Max flow: 20 L/hr
Pump pressure: 0.29 psi (20 mbar)

Temperature range	Accuracy	Power (VAC, Hz)	Catalog number	Price
8 to 40°C	±0.2°C	115 to 230, 50/60	GB-12930-12	

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

Denali Thermoelectric Chillers

Effectively control temperature of diode lasers, CCD cameras, and instrumentation

- Precise digital PID temperature control from 0 to 45°C
- Control directly via keypad or computer interface
- Smaller footprint than comparable air-cooled recirculating chillers
- Set temperature with keypad or use the remote-control function with the communication interface

10122-40

Select from the compact 180 watts unit (10122-30) designed to fit inside your equipment, or the 300 watts laboratory benchtop unit (10122-40). Both models feature energy-efficient, low power consumption—get up to 80% energy savings, without the use of refrigerants or toxic chemicals. A 27 to 50% glycol/water mix is recommended for operation.

What's included: universal power cord.

Specifications

Temp. range: 0 to 45°C **Alarms:** low-level and temperature cutoff **Wetted materials:** copper, polymers, and stainless steel **Power:** 100 to 240 VAC, 50/60 Hz

Reservoir capacity	Temperature stability	Cooling capacity at 20°C	Pump type	Max flow with water	Max pump pressure	Max flow at 0 head	Communication interface	Process connections	Dimensions (L x W x H)	Catalog number	Price
2.5 oz (75 mL)	±0.1°C	180 W	Magnetically coupled gear	0.5 LPM at 10 psig	17 psig (1.1 mbar)	3.7 LPM	RS-232	⅛" CPC with shut-off valve	7½" x 5" x 7" (19 x 13 x 18 cm)	GB-10122-30	
27 oz (800 mL)	±0.05°C	300 W	Centrifugal	2.2 LPM at 10 psig	26 psig (1.7 mbar)	0.7 LPM	USB	⅜" NPT(F)	13" x 11" x 11" (33 x 28 x 28 cm)	GB-10122-40	

Thermo Scientific™ Horizon Fog Testing Systems

Assess evaporation of VOCs on interior vehicle materials before production

NEW

- Measure VOC condensation by reflectometric or gravimetric methods
- Achieve repeatable results with constant test conditions
- Meet DIN, ISO, and SAE standards
- Reduce production time and eliminate extra cost by quickly testing materials
- Build the system that's right for you

Choose the Economical AC-FTS controller for temperature control and ramp programming. The Premium PC-FTS controller allows you to see more data simultaneously on a large, color screen. Measure VOC condensation by either reflectometric (deposition on glass) or gravimetric (weight of material deposited). Choose a convenient startup kit for both methods to get up and running more quickly.

What's included: control head, bath, funnel, cut-to-length hose for the cooling plates, hose clamps, drain fitting, hex key for level indicator, and a power supply with 6-ft (1.8-m) cord.

REQUIRED System Components

1) Controller
2) Cooling system
3) Accessory kit and fluids

1. Controllers

Model	Economical AC-FTS	Premium PC-FTS
Catalog number	GB-24100-01	GB-24100-03
Temperature range	Ambient +13°C to 200°C	
Heating capacity	3.0 kW heater	
Pump for circulation	Two force/suction pumps	
Interface	Remote sensor, multifunction, and USB port	
Programming	Ramp	
Languages	English, German, French	English, German, French, Spanish, Italian, Mandarin, Japanese
Data entry	—	Quick navigation keypad
Display	Bright LED display	Large color LCD
Power	115 VAC, 60 Hz	
Price		

2. Cooling Systems

Model		Recirculating chiller	Refrigerated bath/circulator	Refrigerated bath/circulator with temp ramping
Catalog number		GB-13042-01	GB-12127-00	GB-12136-30
Controller compatibility		AC-FTS, PC-FTS	AC-FTS	PC-FTS
Heating capacity at 230 VAC, 50 Hz at 20°C		2 kW	2 kW	2 kW
Cooling capacity at 20°C		250 W	250 W	320 W
Working temp range		–10 to 80°C	–28 to 150°C	–28 to 200°C
Temperature stability		±0.1°C	±0.1°C	±0.1°C
Pump	Total pressure	300 mbar	300 mbar	940 mbar
	Maximum flow	15 LPM	17 LPM	24 LPM
	Reservoir volume	2.8 L	6 L	10 L
Power		115 VAC, 60 Hz	115 VAC, 60 Hz	115 VAC, 60 Hz
Price				

3. Accessories

Description	Catalog number	Price
Reflectometric method accessory kit	GB-24100-07	
Gravimetric method accessory kit	GB-24100-05	
Heat transfer fluid, 40 L	GB-24100-09	
Control fluid, 1 L	GB-24100-24	

PolyScience® Forced-Age Testing Bath

Accomplish accelerated shelf life testing of beer, wine, and other beverages

- Temperature range of 10 to 60°C
- Reservoir capacity is 189 L

Better known as the "beer bath," this circulating bath is specifically designed for shelf life tests of beer, wine, food stability testing, product quality analysis, and asphalt sample tampering. The bath has a large open surface area with a hinged polycarbonate cover to optimize temperature stability.

Specifications

Reservoir capacity: 189 L
Temperature range: –10 to 60°C
Temperature stability: ±0.05°C
Low-level cutoff: yes
Tank opening (L x W): 22" x 32" (55.9 x 81.3 cm)
Working depth: 16" (40.6 cm)

Note: Distilled water can be used in the bath from 20 to 60°C. For temperatures below 20°, we recommend that a 50/50 solution of laboratory-grade ethylene glycol and water be used to prevent freezing.

What's included: hinged polycarbonate cover and power cord.

ISO 9001:2008 CERTIFIED SUPPLIER

Cooling capacity (watts)			Pump flow (L/min)	Power (VAC, Hz, amps)	Catalog number	Price
0°C	10°C	20°C				
940	1925	2850	16.3	208 to 230, 60, 16	GB-14575-05	
				240, 50, 16	GB-14575-15	

Specialty Baths

Techne® 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

ISO9001:2008 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	5½" H x 7" dia (14 x 17.7 cm)	117 VAC	GB-01184-00	
					240 VAC	GB-01184-02	

GB-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 ⅜" tubing for air flow control.

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

3. Air Pump. When using intake filter, set pressure valve at 6 psi. For more vacuum/compressor pumps, go to ColeParmer.com.

Motor hp	Power	Catalog number	Price
⅓	115 VAC, 60 Hz	GB-07055-04	
¼	230 VAC, 50 Hz	GB-07055-35	

GB-01191-01 **Air filter,** use with lab air supply
GB-01191-02 **Pressure regulator,** use with lab air supply

Techne® 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 is 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	1¼ (5)	13"H x 9.5" dia. (33 x 24.1 cm)	240 VAC	GB-01184-10	
			9¾ (37)	26"H x 9.5" dia. (66 x 24.1 cm)	240 VAC	GB-01184-20	

Accessories

GB-01184-66 **Basket** for bath 01184-10
GB-01184-70 **Basket** for bath 01184-20

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Save time with quicker ramp up and cool down

Cole-Parmer® Polystat® Cooling/Heating Recirculators

See page 23

No need for water or cumbersome racks

Waterless Bead Baths

See page 5

Temper more samples with "headless" design

NEW

- No head means more room for samples
- Get to samples easier—versatile multiposition cover
- Operate and monitor remotely—simply pair to your iOS or Android™ device

Thermo Scientific™ VersaCool™ Refrigerated Circulating Bath

See page 20

See the full selection at ColeParmer.ca/Baths