

Heating Equipment

Industrial-Grade Heat Guns

Get high temperatures on the spot

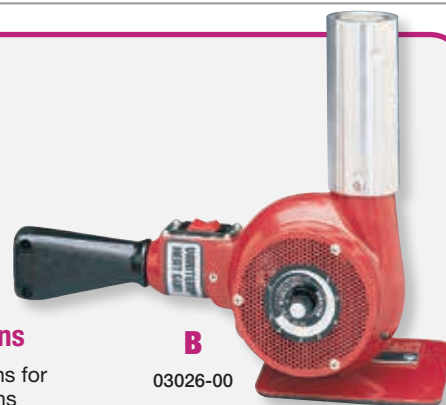
- Heavy-duty die cast aluminum housing and a powerful high-speed motor
- Heating element is made of mica-insulated ceramic and double protected for a longer life span
- Each has a 3-position (off-on-hot) rocker switch and non-slip rubber backed base

A. Dual-Temperature Heat Guns

Two fixed-temperature settings—ideal for controlling heat treatment of samples or drying specimens. An adjustable air intake controls air blast temperature.

B. Variable-Temperature Heat Guns

Use these variable-temperature heat guns for quick, portable, flameless heat. Heat guns feature a control knob to let you regulate temperatures and hold them constant.



03026-00

Temperature		Max watts	Power (VAC, Hz)	Air velocity volume	Catalog number	Price
°F	°C					
A. Dual-temperature heat guns						
200/300	93/149	600	120, 50/60	3000 ft/min, 23 cfm	GY-03020-00	
			230, 50/60		GY-03021-00	
300/500	149/260	1440	120, 50/60	3000 ft/min, 23 cfm	GY-03022-00	
			230, 50/60		GY-03023-00	
500/750	260/399	1680	120, 50/60	3000 ft/min, 23 cfm	GY-03024-00	
			230, 50/60		GY-03025-00	
750/1000	399/538	1740	120, 50/60	3000 ft/min, 23 cfm	GY-03028-00	
		2160	230, 50/60		GY-03029-00	
B. Variable-temperature heat guns						
72 to 1000	22 to 537	1740	120, 60	2200 ft/min, 17 cfm	GY-03026-00	
72 to 750	22 to 398	1680	230, 50/60	2800 ft/min, 21 cfm	GY-03026-01	

Compact Heat Guns

Long-lasting and easy to use

Heat sensitive materials including specialty connectors and shrink tubing maintain a constant temperature and protect from overheating. Ceramic heating element is double protected for a long life span.

Proheat Varitemp® Heat Gun controls the temperature from 130 to 1000°F (50 to 540°C) with the adjustable control dial.

Proheat Variair® Heat Gun controls temperature from 130 to 1000°F (50 to 540°C) and airflow from 4 to 16 cfm with control dial.

Proheat LCD Heat Gun offers all the features of the Proheat Variair (above) plus an LCD with digital display of temperature (°F/°C) and airflow settings. Use the built-in lock to set maximum limits on the unit.

Proheat Programmable Heat Gun has all the features of the Proheat LCD (above) plus six preset and user-specified program settings with digital display of temperature and airflow settings.



03033-05



03033-03



Temperature	Max watts	Power (VAC, Hz)	Air velocity volume	Catalog number	Price	Replacement element kit	
						Cat. no.	Price
Proheat Varitemp heat gun							
130 to 1000°F (50 to 540°C)	1300	120, 60 230, 50/60	4000 ft/min, 16 cfm	GY-03033-00		GY-03033-10	
				GY-03033-02		GY-03033-12	
Proheat Variair heat gun							
130 to 1000°F (50 to 540°C)	1300	120, 60	737 to 4000 ft/min, 4 to 16 cfm	GY-03033-04		—	—
Proheat LCD heat gun							
130 to 1000°F (50 to 540°C)	1300	120, 60	737 to 4000 ft/min, 4 to 16 cfm	GY-03033-05		—	—
Proheat programmable heat gun							
130 to 1000°F (50 to 540°C)	1300	120, 60	737 to 4000 ft/min, 4 to 16 cfm	GY-03033-03		—	—

Accessories

- [GY-03033-14](#) Shrink tubing reflector, 1³/₈"
- [GY-03033-16](#) Pinpoint adapter, 5¹/₁₆" opening
- [GY-03033-18](#) Spreader, 3¹/₂"
- [GY-03033-23](#) Special connector attachment, 1¹/₂"
- [GY-03033-24](#) Reducer attachment, 9¹/₁₆" diameter
- [GY-03033-25](#) Bench stand
- [GY-03033-26](#) Storage case

Flow-Through Heater

Be more efficient with rapid heating

- Precise temperature control to 158°F

Use this flow-through heater to pump and heat large quantities of liquids. It features a single-turn potentiometer for easy temperature setting, a high-temperature cutoff at 203°F (95°C), and a no-flow heater cutoff to prevent heating without fluid. Seal the reservoir to control tanks or closed loop systems.



What's included: one 2-ft (0.6-m) section of 1/2" ID vinyl tubing and 6-ft (1.8-m) power cord; 120 VAC model also includes three-prong plug.

Specifications

Flow rate: 100 GPH at 0 ft of head
Heating rate: 12 secs to raise one gal. of liquid 1°F
Temp range: 5° above ambient to 158°F (5° above ambient to 70°C)

Temp control stability: ±0.2°C (±0.3°F)
Inlet/outlet fittings: 1/2" ID hose barb
Dimensions (L x W x H): 9 1/2" x 9 1/2" x 7 3/4" (24.1 x 24.1 x 19.7 cm)



Watts	Amps	Power	Catalog number	Price
750	6.7	120 VAC, 60 Hz	GY-01285-80	
	3.4	240 VAC, 50 Hz	GY-01285-85	

Infrared Heating Lamp

Ideal for drying coatings

Mount to any table or benchtop, or use our floor stands to support the heating lamp. Adjust the 42" (107 cm) swiveling extension arm to position lamp exactly where you want it. Dual reflector prevents excessive heat buildup.



What's included: screw-type mounting bracket, 10-ft (3-m) grounded cord with plug, and 250-watt infrared bulb.

Power	Catalog number	Price
115 VAC, 50/60 Hz	GY-03057-00	

Accessories

- [GY-03057-01](#) Replacement bulb, 250 watt
- [GY-03057-50](#) Floor stand with caster base, 38 1/2" (98 cm) H
- [GY-03057-52](#) Floor stand with pedestal base

Wait!

There's More at
ColeParmer.com

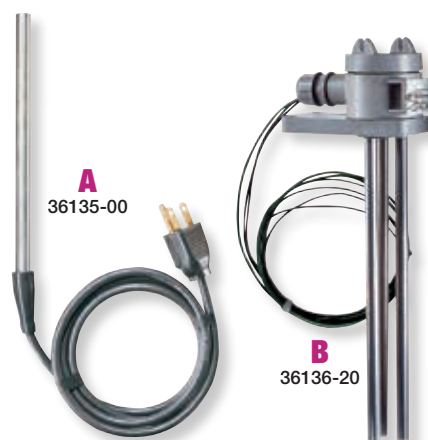
Find all the
product specs
 you need!

Multipurpose Immersion Heaters for Hostile Environments

Stand up to extreme conditions

A. Single-element heaters encased in 316 stainless steel or PTFE include a grounded solid-state heating element. Heaters are self-regulating to ensure uniform heating and prevent hot spots.

B. Multi-element heaters encased in 316 stainless steel or PTFE include a grounded solid-state heating element. Heaters are self-regulating to ensure uniform heating and prevent hot spots. PTFE-coated heaters are ideal for use in corrosive environments. The number of heating rods coming down from the polypropylene terminal head depends on the wattage of the heater: 300 Watts = two rods, 500 Watts = three rods, and 1000 Watt = five rods.



Key letter	Description	Watts	Approximate immersion depth		Heated area (L)		Temperature range	120 VAC		240 VAC	
			in.	cm	in.	cm		Cat. no.	Price	Cat. no.	Price
A	Bayonet 316 SS	100	7	17.8	4L	10.2	Ambient to 450°F (232°C)	GY-36135-00		GY-36135-05	
	Bayonet PTFE-coated					GY-36136-00			GY-36136-05		
B	Two rods 316 SS	300	11	27.9	6L	15.2		GY-36135-10		GY-36135-15	
	Two rods PTFE-coated					GY-36136-10			GY-36136-15		
	Three rods 316 SS	500	11	27.9	6L	15.2		GY-36135-20		GY-36135-25	
	Three rods PTFE-coated					GY-36136-20			GY-36136-25		
	Five rods 316 SS	1000	11	27.9	6L	15.2		GY-36135-30		GY-36135-35	
	Five rods PTFE-coated					GY-36136-30			GY-36136-35		

Heating Equipment

Multi-purpose Stainless Steel Immersion Heaters

Don't lose control of product temperature

A-D. Cole-Parmer® Heaters with dial temperature controller have a sensitivity of $\pm 1^\circ\text{F}$ when liquid is stirred. Top-mounted pilot light indicates when heater is on. Choose from four styles "A" loop, "B" short rod, "C" flat, and "D" long rod (not pictured), which is the same style as "B" only longer. Heaters feature a plastic grip handle and a 6-ft (1.8-m), three-wire cord; 115 VAC models also include a plug.

E. Heaters with thermostatic temperature controller have a sensitivity of $\pm 2^\circ\text{F}$ ($\pm 1^\circ\text{C}$) in an agitated bath. Heaters feature a coiled heating element to concentrate heat at bottom of vessel. A 6-ft (1.8-m), three-wire cord with plug is included. Voltage transformer (listed below) is required for 230 VAC operation.

F-H. Coiled heaters with dial temperature controller have a sensitivity of $\pm 1^\circ\text{F}$ ($\pm 0.6^\circ\text{C}$) in an agitated bath. Coiled heating elements concentrate heat at the bottom of the vessel and feature a pulsator control that pulses on and off. Heaters include a 6-ft (1.8-m), three-wire cord; 115 VAC models include a plug.

Note: Immersion heaters are suitable for water-based, nonflammable solutions in metal or glass containers.

Teky's Tips



Heater Selection

Select an immersion heater according to the wattage you require. The following equation is a conservative guide to help you determine the wattage required for your application.

$$\text{For water: kW} = \frac{\text{Gallons} \times \text{temperature rise } (^\circ\text{F})}{325 \times \text{heat-up time (hours)}}$$



Key letter	Description	Approximate immersion depth		Approximate minimum immersion depth	Heated area	Temperature range	Power		Catalog number	Price
							VAC	Watts		
A	Loop	3 1/8" dia	7.9 cm	3" (5.7 cm)	3" (5.7 cm)	Ambient to 212°F (100°C)	115	500	GY-03046-20	
B	Short rod	6"L	15.2 cm	4 1/2" (11.4 cm)	5" (12.7 cm)		115	500	GY-03046-00	
A	Loop	3 1/8" dia	7.9 cm	3" (5.7 cm)	3" (5.7 cm)		230	500	GY-03046-22	
B	Short rod	6"L	15.2 cm	4 1/2" (11.4 cm)	5" (12.7 cm)		230	500	GY-03046-02	
C	Flat	2 3/4"	7.0 cm	2 3/4" (7.0 cm)	8 3/4"L (22.2 cm)		115	500	GY-03046-40	
D	Long rod	20" L	50.8 cm	18 1/2" (18.5 cm)	18 1/2" (47.0 cm)		115	500	GY-03046-50	
C	Flat	2 3/4"	7.0 cm	2 3/4" (7.0 cm)	8 3/4"L (22.2 cm)		230	500	GY-03046-42	
		20"L	50.8 cm	18 1/2" (18.5 cm)	18 1/2" (47.0 cm)		230	500	GY-03046-52	
		6"L	15.2 cm	4 1/2" (11.4 cm)	5" (12.7 cm)		115	1100	GY-03046-04	
		20" L	50.8 cm	18 1/2" (18.5 cm)	18 1/2" (47.0 cm)		115	1100	GY-03046-54	
		6"L	15.2 cm	4 1/2" (11.4 cm)	5" (12.7 cm)	Ambient to 250°F (121°C)	230	1100	GY-03046-06	
		20"L	50.8 cm	18 1/2" (18.5 cm)	18 1/2" (47.0 cm)		230	1100	GY-03046-56	
E	Loop	7" dia	17.8 cm	5" (12.7 cm)	3" (7.6 cm)		115	1500	GY-03052-20	
		10 1/2" dia	26.7 cm						GY-03052-40	
		13" dia	33.0 cm						GY-03052-10	
E	Loop	7" dia	17.8 cm	5" (12.7 cm)	5" (12.7 cm)	Ambient to 250°F (121°C)	115	1000	GY-03052-30	
		10 1/2" dia	26.7 cm					1000	GY-03052-50	
		13" dia	33.0 cm					1500	GY-03052-10	
		7" dia	17.8 cm	5" (12.7 cm)		Ambient to 212°F (100°C)	115	1000	GY-03047-10	
		10 1/2" dia	26.7 cm	5" (12.7 cm)	5" (12.7 cm)		230	1000	GY-03047-12	
		13" dia	33.0 cm	5" (12.7 cm)			115	1000	GY-03047-30	
							230	1000	GY-03047-32	
							115	1500	GY-03047-50	
							230	1500	GY-03047-52	
							115	550	GY-03048-50	
							230	550	GY-03048-52	
							115	550	GY-03049-50	
							230	550	GY-03049-52	
G	Loop	4"	10.2 cm	3" (5.7 cm)	2 3/4" dia (7.0 cm)	Ambient to 212°F (100°C)	115	550		
							230	550		
							115	550		
							230	550		
							115	550		
							230	550		
							115	550		
							230	550		
							115	550		
							230	550		
H	Flat	3"	7.6 cm	2" (5.1 cm)	4 3/4" dia (12.1 cm)		115	550		
							230	550		

Accessories

GY-01578-08 Voltage transformer; 230 VAC, 50/60 Hz. Use with 03052-10 and -30 heaters

GY-01578-09 Voltage transformer; 230 VAC, 50/60 Hz. Use with 03052-20, -40, and -50 heaters

Heavy-Duty Flexible Drum Heaters with Thermostat

Get better heat control of drum contents

- Excellent surface coverage with adjustable temperature control
- Resistant to moisture and chemicals

Made of durable vulcanized silicone rubber, fiberglass cloth, and multistranded grounded heating elements that provide for a long and reliable service life.

03106-series drum heaters (drums not included)



Drum size	Drum diameter		Drum type	Temperature range	Watts	120 VAC		240 VAC	
	inches	cm				Cat no.	Price	Cat no.	Price
55 gallons	22.3 to 23.2	56.6 to 58.9	Metal	50 to 425°F (10 to 218°C)	1200	GY-03106-68		GY-03106-72	
5 gallons	11.1 to 12.1	28.2 to 30.7			550	GY-03106-65		GY-03106-69	
55 gallons	22.3 to 23.2	56.6 to 58.9	Plastic	50 to 160°F (10 to 71°C)	1200	GY-03106-76		GY-03106-82	
5 gallons	11.1 to 12.1	28.2 to 30.7			550	GY-03106-73		GY-03106-77	

Pail and Drum Heaters

Achieve better flow of viscous liquids

- Get adjustable temperature control with variable power output selector
- Use output selector for three wattage levels at a given thermostat and voltage rating
- Don't burn yourself—temperature sensor outside and away from heating element

Caution: Use heaters with metal pails or drums that contain nonflammable materials only. Also, heaters are only for indoor use in nonhazardous areas.



Vessel size	Temperature range	Power			Catalog number	Price
		VAC	Watts	Amps		
5 gallons	60 to 250°F (16 to 121°C)	120	1500	12.5	GY-09399-58	
	200 to 400°F (93 to 204°C)				GY-09399-60	
55 gallons	60 to 250°F (16 to 121°C)	120	2000	16.6	GY-09399-50	
		240	3000	12.5	GY-09399-52	
55 gallons	200 to 400°F (93 to 204°C)	120	2000	16.6	GY-09399-53	
		240	3000	12.5	GY-09399-54	

Full-Coverage Insulated Drum Heaters with Digital Control

Safe, fast heating of 55-gallon drums

- Prevent temperature runaway with built-in adjustable thermostatic switch
- Quick and easy installation

Simply wrap insulated heater around the drum, close the Velcro® seal, adjust the built-in thermostat to desired temperature setting, and uniform heat is evenly distributed around the entire drum. The 1"-thick fiberglass insulation prevents heat loss; prevent further heat loss by ordering the optional drum insulation top cover. **Warning:** For indoor use in non-hazardous areas only.



Control panel



Drum size	Drum diameter	Drum type	Temperature range	Power		Catalog number	Price
				VAC	Watts		
55 gallons	22.3" (56.6 cm)	Metal	50 to 450°F (10 to 232°C)	120	1600	GY-09300-50	
				240	1600	GY-09300-60	
55 gallons	22.3" (56.6 cm)	Plastic	50 to 160°F (10 to 71°C)	120	750	GY-09300-55	
				240	750	GY-09300-65	

[GY-09300-70](#) Drum insulation cover improves heat-up time

Heating Equipment

Silicone-Rubber Heating Blankets

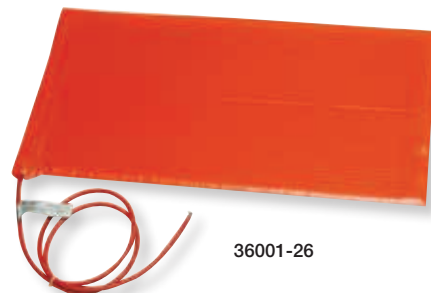
Get uniform heating across your vessel

- Easily attach to vessel with optional pressure-sensitive adhesive backing
- No need to worry about most chemicals, moisture, or radiation with heavy-duty design

These versatile heating blankets are specially designed for use on metal surfaces, blankets for plastic surfaces are available online. Heating element is made of a grounded multi-stranded resistance heating wire that is extremely durable and designed for a long service life.

Heating blankets are available with and without temperature control. Blankets without a controller are supplied with a power cord without a plug (which can be added by the user or directly wired) and require a separate temperature controller. Models with built-in temperature controller are supplied with a plug and do not require any additional components.

What's included: Models without a temperature controller include a 4-ft (1.2-m) power lead without plug. Models with temperature controller include a 6-ft (1.8-m) power cord with a standard 120V 3-prong NEMA 5-15 plug.

NEW


36001-26

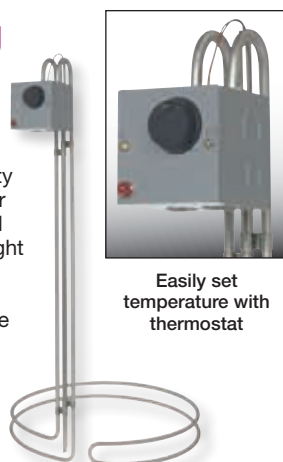
Watts	Length	Width	Max exposed temperature	Volt	Without adhesive		With adhesive	
					Cat. no.	Price	Cat. no.	Price
Without temperature controller								
180	12" (30.5 cm)	6" (15.2 cm)	425°F (218°C)	120	GY-36001-26		GY-36001-01	
360	24" (61 cm)	6" (15.2 cm)	425°F (218°C)	120	GY-36001-28		GY-36001-03	
360	12" (30.5 cm)	12" (30.5 cm)	425°F (218°C)	120	GY-36001-33		GY-36001-08	
540	36" (91.4 cm)	6" (15.2 cm)	425°F (218°C)	120	GY-36001-31		GY-36001-06	
720	24" (61 cm)	12" (30.5 cm)	425°F (218°C)	120	GY-36001-36		GY-36001-11	
810	18" (45.7 cm)	18" (45.7 cm)	425°F (218°C)	120	GY-36001-41		GY-36001-16	
1080	36" (91.4 cm)	12" (30.5 cm)	425°F (218°C)	120	GY-36001-38		GY-36001-13	
1440	24" (61 cm)	24" (61 cm)	425°F (218°C)	120	GY-36001-48		GY-36001-21	
1620	36" (91.4 cm)	18" (45.7 cm)	425°F (218°C)	120	GY-36001-43		GY-36001-18	
2160	36" (91.4 cm)	24" (61 cm)	425°F (218°C)	120	GY-36001-50		GY-36001-23	
With built-in temperature controller								
180	12" (30.5 cm)	6" (15.2 cm)	425°F (218°C)	120	GY-36002-33		GY-36001-98	
360	12" (30.5 cm)	12" (30.5 cm)	425°F (218°C)	120	GY-36002-39		GY-36002-09	
540	36" (91.4 cm)	6" (15.2 cm)	425°F (218°C)	120	GY-36002-37		GY-36002-05	
720	24" (61 cm)	12" (30.5 cm)	425°F (218°C)	120	GY-36002-41		GY-36002-13	
810	18" (45.7 cm)	18" (45.7 cm)	425°F (218°C)	120	GY-36002-45		GY-36002-21	
1080	36" (91.4 cm)	12" (30.5 cm)	425°F (218°C)	120	GY-36002-43		GY-36002-17	
1440	24" (61 cm)	24" (61 cm)	425°F (218°C)	120	GY-36002-49		GY-36002-29	
1472	36" (91.4 cm)	18" (45.7 cm)	425°F (218°C)	120	GY-36002-47		GY-36002-25	

Cole-Parmer® 55-Gallon Immersion Drum Heater

Ensure safe heating

- Designed for 55-gallon drums

Coiled heating element concentrates heat at the bottom of the vessel. Safety limit with manual reset prevents heater burn-out. Heating element is enclosed in a 316 stainless steel sheath. Pilot light indicator shows when heater is on. Heater requires a minimum liquid level of 10 inches. **Caution:** Do not immerse in flammable liquids.



Easily set temperature with thermostat

Cole-Parmer®

Drum size	Temperature range	Power			Catalog number	Price
		VAC	Watts	Amps		
55 gallons	70 to 250°F (32 to 121°C)	230	5000	25	GY-03054-00	

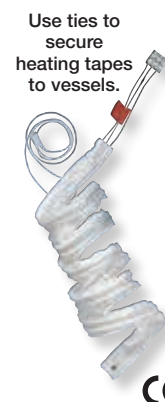
Grounded Heating Tapes

Avoid shock hazards

- Use with glass, ceramic, or metal vessels

Temperature-resistant fiberglass sleeves encase heating element. The maximum surface loading is 4 watts/sq. in. Leads are 3½" long with electrical connector at one end. Tapes include ties at both ends.

Warning: Heating tape should not be overlapped and requires the use of a temperature or power controller (sold separately).



CE

Watts	Dimensions		115 VAC tapes		230 VAC tapes	
	Length	Width	Catalog number	Price	Catalog number	Price
100	2 ft (0.6 m)	1" (2.5 cm)	GY-03121-10		GY-03121-12	
150	3 ft (0.9 m)	1" (2.5 cm)	GY-03121-20		GY-03121-22	
200	4 ft (1.2 m)	1" (2.5 cm)	GY-03121-30		GY-03121-32	
300	6 ft (1.8 m)	1" (2.5 cm)	GY-03121-40		GY-03121-42	
400	8 ft (2.4 m)	1" (2.5 cm)	GY-03121-50		GY-03121-52	
600	12 ft (3.7 m)	1" (2.5 cm)	GY-03121-60		GY-03121-62	
800	16 ft (4.9 m)	1" (2.5 cm)	GY-03121-70		GY-03121-72	
1200	24 ft (7.3 m)	1" (2.5 cm)	—	—	GY-03121-82	
1600	32 ft (9.8 m)	1" (2.5 cm)	—	—	GY-03121-92	

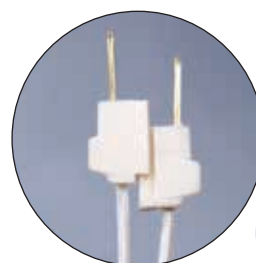
Cole-Parmer® StableTemp™ High-Temperature Heating Tapes

Get direct-contact heating on conductive surfaces

- Maximum exposure temperature of 1400°F (760°C)
- Choose from power leads on same end or on opposite ends for easier wrapping
- Heavy-duty insulated design
- Nongrounded

The 120 VAC tapes include a plug and the 240 VAC tapes are supplied with bare leads. The 120 VAC tapes with an opposite-end lead configuration are supplied with a half plug on each end; the half plugs fit together and connect to form a standard 120 VAC two-prong plug.

Warning: Heating tapes should not be overlapped and require the use of a temperature or power controller (sold separately).



Split plug



StableTemp

Watts	Dimensions				Max exposure temperature	Leads emerging from same end		Leads emerging from opposite ends			
	Length		Width			120 VAC		120 VAC		240 VAC†	
	ft	m	in.	cm		Catalog number	Price	Catalog number	Price	Catalog number	Price
Fibrox® fiberglass insulated tapes											
105	2	0.6	½	1.3	900°F (482°C)	GY-36110-00		GY-03105-20		GY-03105-21	
210	4	1.2	½	1.3	900°F (482°C)	GY-36110-02		GY-03105-40		GY-03105-41	
310	6	1.8	½	1.3	900°F (482°C)	GY-36110-04		GY-03105-60		GY-03106-00	
520	10	3	½	1.3	900°F (482°C)	GY-36110-08		GY-03105-10		GY-03105-11	
420	4	1.2	1	2.5	900°F (482°C)	GY-36110-12		GY-03106-40		GY-03106-41	
620	6	1.8	1	2.5	900°F (482°C)	GY-36110-14		GY-03106-60		GY-03106-61	
830	8	2.4	1	2.5	900°F (482°C)	GY-36110-16		GY-03106-80		GY-03106-81	
418	4	1.2	1¾	4.4	900°F (482°C)	GY-36110-22		GY-03107-40		—	—
Samox® fiberglass insulated tapes											
470	6	1.8	½	1.3	1400°F (760°C)	GY-36115-04		GY-03115-60		GY-03115-61	
627	8	2.4	½	1.3	1400°F (760°C)	GY-36115-06		GY-03115-80		GY-03115-81	
783	10	3	½	1.3	1400°F (760°C)	GY-03106-06		GY-03106-07		GY-03106-08	
313	2	0.6	1	2.5	1400°F (760°C)	GY-36115-10		GY-03117-20		GY-03117-21	
627	4	1.2	1	2.5	1400°F (760°C)	GY-36115-12		GY-03117-40		GY-03106-09	
940	6	1.8	1	2.5	1400°F (760°C)	GY-03106-11		GY-03106-12		GY-03117-60	
1245	8	2.4	1	2.5	1400°F (760°C)	—	—	—	—	GY-03117-80	
1570	10	3	1	2.5	1400°F (760°C)	—	—	—	—	GY-03106-13	

Cole-Parmer® StableTemp™ Silicone Rubber Heating Tapes

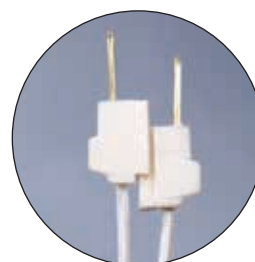
Moisture and chemical resistant

- Maximum exposure temperature of 450°F (232°C)
- Nongrounded

Solve a wide range of heating applications without risk of damage due to chemical and moisture spillover. Made of fine-strand resistance wires that are double insulated with braided fiberglass and knitted into flat tapes; then completely enclosed in high-strength, high-temperature-resistant silicone rubber.

The 120 VAC tapes have an opposite-end lead configuration and are supplied with a half plug on each end; the half plugs fit together and connect to form a standard 120 VAC two-prong plug. Silicone rubber-insulated lead wires extend two feet from opposite ends of the tape to simplify connection to power source. The 240 VAC tapes are supplied with bare leads.

Warning: Heating tapes should not be overlapped and require the use of a temperature or power controller sold separately.



Split plug



Watts	Dimensions				Max exposure temperature	120 VAC†		240 VAC†	
	Length	Width				Cat no.	Price	Cat no.	Price
52	2 ft	0.6 m	½"	1.3 cm	450°F (232°C)	GY-03111-20		GY-03111-21	
104	4 ft	1.2 m	½"	1.3 cm	450°F (232°C)	GY-03111-40		GY-03111-41	
156	6 ft	1.8 m	½"	1.3 cm	450°F (232°C)	GY-03111-60		GY-03111-61	
208	8 ft	2.4 m	½"	1.3 cm	450°F (232°C)	GY-03111-80		GY-03111-81	
260	10 ft	3 m	½"	1.3 cm	450°F (232°C)	GY-03111-10		GY-03111-11	
312	12 ft	3.7 m	½"	1.3 cm	450°F (232°C)	GY-03111-12		GY-03111-13	
104	2 ft	0.6 m	1"	2.5 cm	450°F (232°C)	GY-03110-20		GY-03110-21	
208	4 ft	1.2 m	1"	2.5 cm	450°F (232°C)	GY-03110-40		GY-03110-41	
312	6 ft	1.8 m	1"	2.5 cm	450°F (232°C)	GY-03110-60		GY-03110-61	
416	8 ft	2.4 m	1"	2.5 cm	450°F (232°C)	GY-03110-80		GY-03110-81	
624	6 ft	1.8 m	2"	5.1 cm	450°F (232°C)	GY-03112-60		GY-03112-61	
832	8 ft	2.4 m	2"	5.1 cm	450°F (232°C)	GY-03112-80		GY-03112-81	

†120 VAC tapes supplied with half plugs at opposite ends.

‡240 VAC tapes supplied with bare leads.

Wait!

There's More at
ColeParmer.com

Find **Technical Resources** to help you select and use your product

Heating Equipment

Cole-Parmer® StableTemp™ Dual-Element Heating Tapes

Greater flexibility than other high-temperature heating tapes

StableTemp

Dual-element design improves the heater's flexibility over standard high-temperature tapes. Tapes are made of two heating elements that are knitted together in series and then wound together with high-temperature Samox® fiberglass. The 120 VAC tapes include a plug and the 240 VAC tapes are supplied with bare leads.

Warning: Heating tapes should not be overlapped and require the use of a temperature or power controller sold separately.

Watts	Dimensions		Max exposure temperature	120 VAC tapes		240 VAC tapes†	
	Length	Width		Catalog number	Price	Catalog number	Price
156	2 ft (0.6 m)	½" (1.3 cm)	1400°F (760°C)	GY-36050-00		GY-36050-05	
312	4 ft (1.2 m)	½" (1.3 cm)	1400°F (760°C)	GY-36050-10		GY-36050-15	
468	6 ft (1.8 m)	½" (1.3 cm)	1400°F (760°C)	GY-36050-20		GY-36050-25	
624	8 ft (2.4 m)	½" (1.3 cm)	1400°F (760°C)	GY-36050-30		GY-36050-35	
780	10 ft (3 m)	½" (1.3 cm)	1400°F (760°C)	GY-03106-26		GY-36050-45	
936	12 ft (3.7 m)	½" (1.3 cm)	1400°F (760°C)	GY-03106-27		GY-36050-55	
312	2 ft (0.6 m)	1" (2.5 cm)	1400°F (760°C)	GY-36050-60		GY-36050-65	
624	4 ft (1.2 m)	1" (2.5 cm)	1400°F (760°C)	GY-36050-70		GY-36050-75	
936	6 ft (1.8 m)	1" (2.5 cm)	1400°F (760°C)	GY-03106-28		GY-36050-85	
1248	8 ft (2.4 m)	1" (2.5 cm)	1400°F (760°C)	—	—	GY-36050-95	

†Plug not included.



36050-00

Cole-Parmer® StableTemp™ Silicone Rubber Heating Tapes with Control

No need for a separate controller

StableTemp

- Choice of time percentage control or thermostat control

Tapes are made of fine-strand resistance wires that are double insulated with braided fiberglass and knitted into flat tapes; then completely enclosed in high-strength, high-temperature-resistant silicone rubber.

Warning: Heating tapes should not be overlapped. For thermostat control tapes, the sensor box must make surface contact with the object being heated.



Time percentage controller regulates the time heater is on and off.

Thermostat controller
03106-90



Watts	Dimensions		Max exposure temperature	120 VAC tapes			
	Length	Width		Catalog number	Price		
Time percentage control (regulates the length of time the heater is on and off)							
288	8 ft	2.4 m	1/2"	1.3 cm	450°F (232°C)	GY-03106-35	
360	10 ft	3 m	1/2"	1.3 cm	450°F (232°C)	GY-03106-36	
144	2 ft	0.6 m	1"	2.5 cm	450°F (232°C)	GY-36001-52	
288	4 ft	1.2 m	1"	2.5 cm	450°F (232°C)	GY-36001-54	
432	6 ft	1.8 m	1"	2.5 cm	450°F (232°C)	GY-36001-56	
576	8 ft	2.4 m	1"	2.5 cm	450°F (232°C)	GY-36001-58	
720	10 ft	3 m	1"	2.5 cm	450°F (232°C)	GY-36001-60	
Thermostat control (regulates the temperature from 50 to 425°F)							
72	2 ft	0.6 m	1/2"	1.3 cm	425°F (218°C)	GY-03106-90	
144	4 ft	1.2 m	1/2"	1.3 cm	425°F (218°C)	GY-03106-91	
432	6 ft	1.8 m	1"	2.5 cm	425°F (218°C)	GY-03106-97	
720	10 ft	3 m	1"	2.5 cm	425°F (218°C)	GY-03106-99	

Cole-Parmer® StableTemp™ Small-Diameter Fiberglass Heating Cords

Get more heat into each inch

StableTemp

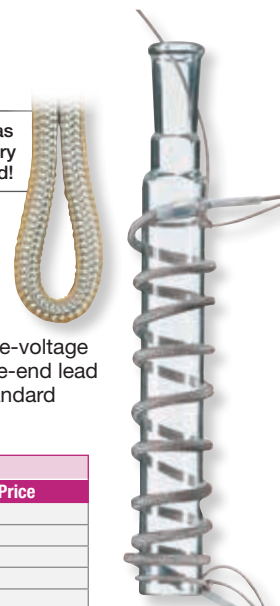
- Ideal when thicker heating tapes are too bulky
- High heating with low energy consumption

A tough, woven fiberglass outer sheath protects you from electrical hazards. NiChrome wire, spiral-wound around the core, packs more heating element into the cord.

Control heating cord temperature with a temperature controller or vary the output of 240 VAC models with variable-voltage transformers. Heating cords are supplied with two cord ties and 10" leads. The 120 VAC models have an opposite-end lead configuration and are supplied with a half plug on each end; the half plug fits together and connects to form a standard 120 VAC two-prong plug; 240 VAC models have stripped ends. **Warning:** Do not overlap heating cords!

Watts	Dimensions		Max exposure temperature	120 VAC heating cords		240 VAC heating cords	
	Length	Width		Catalog number	Price	Catalog number	Price
53	4 ft	1.2 m	¾"	4.8 cm		GY-03122-30	
136	6 ft	1.8 m	¾"	4.8 cm		GY-03122-60	
238	12 ft	3.7 m	¾"	4.8 cm		GY-03122-12	
416	18 ft	5.5 m	¾"	4.8 cm		GY-03122-18	
550	24 ft	7.3 m	¾"	4.8 cm		GY-03122-24	
			850°F (454°C)			GY-03122-31	
						GY-03122-61	
						GY-03122-13	
						GY-03122-19	
						GY-03122-25	

Flexible as an ordinary lamp cord!



Digi-Sense® Benchtop Temperature Control Consoles

Direct plug-in of heating or cooling devices

TC9000 Model (Thermocouple)

- Simple on/off to sophisticated PID control
- Simultaneous view of both the measured and set point on the two-line alphanumeric display
- Offset function allows you to correct for probe error
- Front panel indicates output and alarm conditions
- Mount to lab frame or grid with built-in support bracket

TC9500 Data Logging Model (Thermocouple, RTD, Thermistor)

Offers all the features of the Temp 9000 controller, plus nine-segment ramp and soak profiling for more complex processes, USB computer interface, and free software that features real-time visual of set points and process activity, along with data logging.

- Ramp rate and ramp-and-soak profiling for more complicated processes
- USB computer interface and free software that features real-time graphing and programming setup
- Data log more than 100 K data points in adjustable increments from 1 second to 999 seconds



Model	Temperature probe inputs	Heater/cooler output (50/60 Hz)††	Heater/cooler output load	Power††	Catalog number	Price
TC9000	Thermocouple	120 VAC	15 A max, 1800 W	120 VAC	GY-89800-01	
		240 VAC	105 A max, 2300 W	230 VAC	GY-89800-02	
TC9500	Thermocouple, thermistor, RTD	120 VAC	15 A max, 1800 W	120 VAC	GY-89800-03	
		240 VAC	10 A max, 2300 W	230 VAC	GY-89800-04	

†For 230 VAC models the power and heater/cooler output uses IEC plugs. You may need to order an adapter sold separately, for your local requirements.

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



Probe not included



Specifications

Input type	Range
J	–190 to 1000°C (–310 to 1832°F)
K	–200 to 1372°C (–328 to 2502°F)
T	–200 to 400°C (–328 to 752°F)
E	–200 to 1000°C (–328 to 1832°F)
N	–200 to 1300°C (–328 to 2372°F)
B	200 to 1800°C (392 to 3272°F)
R	0 to 1768°C (32 to 3214°F)
S	0 to 1768°C (32 to 3214°F)
Thermistor†	400 series: –30 to 100°C (–22 to 212°F) 700 series: –15 to 100°C (5 to 212°F)
100 Ω Pt RTD†	–200 to 800°C (–328 to 1472°F)

†Temp 9500 model only.

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

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

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

Types B, R, and S: ±0.2% of span

Thermistor: ±0.4% of span 0.5°C (0.7°F)

RTD: ±0.1% of span

Alarm output (9500 only): SPST relay rated for 24 VAC, 1 A max

Communication (9500 only): USB

Autotuning Benchtop Controller

Won't lose parameters in power failures

- Large easy-to-read dual LED display—monitor set point and measured temperature values simultaneously
- Ramp and soak features up to 56 programmable segments
- Program alarm set point to track the process

Autotuning feature will automatically adjust the proportional band, rate, and reset once you have entered a set point. Controller also features universal input, status lights that indicate output and alarm conditions, programmable alarms, pattern end functions that allow for endless program runs, and a SPDT relay that is connected to an audible alarm with adjustable volume.

Built-in security system protects against accidental or unauthorized changes. Programming and remote monitoring of the controller can be done through the built-in RS-485 port. Use optional RS-485 to USB converter to connect easily to your computer.

Specifications

Input type	Range
J	–148 to 2192°F –100 to 1200°C
K	–328 to 2372°F –200 to 1300°C
T	–328 to 752°F –200 to 400°C
100 Ω PT RTD	–328 to 1472°F –200 to 800°C

Resolution: 1° or 0.1° selectable

Accuracy: ±0.25% of span, ±1 LSD

Control output: 5 A mechanical relay, 250 VAC

Alarm output: one SPDT relay rated for 240 VAC, 3 A max

Recorder output: RS-485

Input type	Power (60 Hz)	Catalog number	Price
J, K, T, RTD	115 VAC	GY-02110-81	

[GY-02110-83](#) RS-485 to USB converter

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

