

Heating Mantles

Flexible Fabric Heating Mantles

Get better heating with conforming flexible fabric

- Maximum temperature of 842°F (450°C)

A. Hemispherical Heating Mantles feature insulated glass fabric that conforms to unusual vessel shapes. Steel extension supports (sold separately below) are required to support mantle and to allow attachment to ring stands. Supports have fabric strap basket to hold mantles; do not place mantle directly on ring stand.

Mantles require a controlled electrical power source to prevent overheating.



Watts	Flask size (mL)	Dimensions (OD† x H)		120 VAC models		240 VAC models	
		in.	cm	Catalog number	Price	Catalog number	Price
60	50	4½ x 1¼	11.4 x 4.4	GY-36225-00		—	—
80	100	5½ x 2	14.3 x 5.1	GY-36225-02		—	—
80	125	5½ x 2½	14.3 x 6.0	GY-36225-04		—	—
100	200	5½ x 2¾	14.3 x 7.0	GY-36225-06		GY-36225-07	
180	250	6½ x 2¾	16.5 x 7.0	GY-36225-10		GY-36225-15	
180	300	6½ x 2¾	16.5 x 7.0	GY-36225-20		GY-36225-25	
270	500	6¾" x 3"	16.8 x 7.6	GY-36225-30		GY-36225-35	
380	1000	9¼ x 3½	23.5 x 8.9	GY-36225-40		GY-36225-45	
500	2000	10 x 4½	25.4 x 11.4	GY-36225-50		GY-36225-55	
500	3000	10¾ x 5	26.3 x 12.7	GY-36225-60		GY-36225-65	
600	5000	12½ x 5½	30.8 x 14.0	GY-36225-70		GY-36225-75	

†Outside diameter includes support.



A
Heating mantle 36225-00
shown with support 36225-80

B. Spherical Heating Mantles cover both top and bottom of one-, two-, or three-neck spherical flasks. Mantles are made from flexible fabrics for effective heating and protection of glass vessels. Wraparound zipper holds the mantle halves snugly together to prevent heat loss. Top split allows mantle removal without disturbing the glass vessels.



Distribution of watts		Flask size (mL)	Dimensions (W x H x D)		VAC	Catalog number	Price
Lower half	Upper half		in.	cm			
180	—	250	5½ x 5½ x 4	14.0 x 14.0 x 10.2	115 230	GY-36226-00 GY-36226-05	
270	—	500	9 x 9 x 7¾	22.9 x 22.9 x 19.7	115 230	GY-36226-10 GY-36226-15	
380	140	1000	9 x 9 x 7¾	22.9 x 22.9 x 19.7	115 230	GY-36226-20 GY-36226-25	
500	200	2000	10¾ x 10¾ x 10	27.6 x 27.6 x 25.4	115 230	GY-36226-30 GY-36226-35	
500	200	3000	12¾ x 12¾ x 10¾	32.1 x 32.1 x 27.3	115 230	GY-36226-40 GY-36226-45	
600	300	5000	12¾ x 12¾ x 10¾	32.1 x 32.1 x 27.3	115 230	GY-36226-50 GY-36226-55	



B

C. Extension Supports

- Safely support flasks and mantles
- Free up valuable bench space while heating solutions

Use these extension supports for attaching hemispherical and spherical mantle bottoms to lattice. Each extension is made of a steel ring and heat resistant strap basket.

See our clamps and supports section on pages 156–165 for support rods and frames.

Flask size	Catalog number	Price
50 mL	GY-36225-80	
100 to 200 mL	GY-36225-81	
250 to 350 mL	GY-36225-82	
500 mL	GY-36225-83	
1000 mL	GY-36225-84	
2000 mL	GY-36225-85	
3000 mL	GY-36225-86	
5000 mL	GY-36225-87	



C
Support 36225-80 shown
with heating mantle 36225-00

Wait! There's More...

For required Power Controllers, see pages 951-953.

D. Griffin Beaker

Mantles concentrate the heat at the bottom of the mantle for even small volume heating applications.



Watts	Beaker size (mL)	Dimensions OD x dia	115 VAC models		230 VAC models	
			Catalog number	Price	Catalog number	Price
40	50	1 5/8" x 1 5/8"	GY-36227-00		—	—
100	100	2" x 2"	GY-36227-02		GY-36227-01	
100	150	2 1/4" x 2 5/8"	GY-36227-04		GY-36227-03	
140	250	2 11/16" x 2 1/2"	GY-36227-06		GY-36227-05	
240	400	3" x 3 1/4"	GY-36227-08		GY-36227-07	
325	600	3 3/16" x 3 3/4"	GY-36227-10		GY-36227-09	
350	800	3 7/8" x 4 1/4"	GY-36227-12		GY-36227-11	
430	1000	4 1/4" x 4 1/2"	GY-36227-14		GY-36227-13	
550	2000	5 1/8" x 6"	GY-36227-16		GY-36227-15	
630	3000	5 3/4" x 6 1/2"	GY-36227-18		GY-36227-17	
710	4000	6 3/8" x 8"	GY-36227-20		GY-36227-19	

E. Erlenmeyer Flask

Mantles help prevent thermal strain on heavy-walled vessels.



Watts	Capacity (mL)	Dimensions OD x dia	115 VAC models		230 VAC models	
			Cat. no.	Price	Cat. no.	Price
50	50	2 3/4" x 1 3/4"	GY-36227-22		—	—
95	125	3 5/8" x 2 1/2"	GY-36227-24		GY-36227-21	
110	200	4 1/8" x 3"	GY-36227-26		GY-36227-23	
150	250	4 9/16" x 3 5/8"	GY-36227-28		GY-36227-25	
150	300	4 5/8" x 3 5/8"	GY-36227-30		GY-36227-27	
200	500	5 1/16" x 4 1/2"	GY-36227-32		GY-36227-29	
260	750	6 9/16" x 5 1/4"	GY-36227-34		GY-36227-31	
300	1000	7 3/8" x 7 1/4"	GY-36227-36		GY-36227-33	
350	1500	8 1/8" x 6 1/2"	GY-36227-38		GY-36227-35	
400	2000	8 9/16" x 8 1/2"	GY-36227-40		GY-36227-37	
260†	3000	9 1/16" x 9 3/4"	GY-36227-42		GY-36227-39	
330†	4000	9 1/2" x 8 5/8"	GY-36227-44		GY-36227-41	
390†	6000	12 1/2" x 10 1/4"	GY-36227-46		GY-36227-43	

†Wattage value is the same for both top and bottom sections of heating mantle.

F. Sixty-Degree Funnel
Mantles prevent precipitation and reduces viscosity of solutions during transfer.



Watts	Top dia	Dimensions OD x dia	115 VAC models		230 VAC models	
			Cat. no.	Price	Cat. no.	Price
40	2 1/2"	3 1/2" x 1 19/32"	GY-36227-48		—	—
40	3"	4" x 2"	GY-36227-50		—	—
60	4"	5" x 2 3/8"	GY-36227-52		—	—
90	5"	6" x 3"	—	—	GY-36227-45	
120	6"	7" x 3 19/32"	GY-36227-56		GY-36227-47	
210	8"	9" x 5 5/8"	GY-36227-58		GY-36227-49	
400	10"	11" x 6 3/4"	GY-36227-60		GY-36227-51	
400	12"	13" x 7 3/4"	GY-36227-62		GY-36227-53	

G. Büchner Funnel

Mantles provide gentle heat for solutions that must be filtered while warm.



Watts	Coors funnel no.	Size OD x dia; top dia	115 VAC models		230 VAC models	
			Catalog number	Price	Catalog number	Price
50	60240	4 1/4" x 2"; 2 3/4"	GY-36227-64		—	—
50	60242	5" x 2 11/16"; 3 1/2"	GY-36227-66		—	—
70	60243	5 3/4" x 3 1/4"; 4 1/4"	GY-36227-68		—	—
70	60244	7" x 3 1/2"; 5"	GY-36227-70		—	—
100	60245	7 5/8" x 4 1/16"; 5 5/8"	GY-36227-72		GY-36227-55	
220	60246	8 3/4" x 4 5/8"; 6 3/4"	GY-36227-74		GY-36227-57	
300	60247	10 1/8" x 5 1/16"; 8 3/8"	GY-36227-76		GY-36227-59	
350	60248	12 5/8" x 7 1/16"; 10 5/8"	GY-36227-78		GY-36227-61	

H. Separatory Funnel Mantles

allow the extraction of solutions while hot, preventing solidification of viscous material in cold stopcocks. Design prevents separatory funnel from cracking under extreme thermal strain.



Watts	Funnel capacity (mL)	Dimensions OD x dia	115 VAC models		230 VAC models	
			Catalog number	Price	Catalog number	Price
Mantles with squibb funnels						
140	250	4 ⁷ / ₈ " x 5"	—	—	GY-36227-63	
180	500	5 ⁵ / ₈ " x 7"	GY-36227-82		GY-36227-65	
190	1000	6 ¹ / ₂ " x 8"	GY-36227-84		GY-36227-67	
280	2000	8" x 10"	GY-36227-86		GY-36227-69	
Mantles with globe funnels						
180	500	5 ¹ / ₁₆ " x 3 ¹ / ₂ "	GY-36227-88		GY-36227-71	
190	1000	6 ⁷ / ₈ " x 5"	GY-36227-90		GY-36227-73	
250	2000	8 ¹ / ₂ " x 6 ¹ / ₂ "	GY-36227-92		GY-36227-75	
340	4000	10" x 6 ³ / ₄ "	GY-36227-94		GY-36227-77	
400	6000	11" x 9 ¹ / ₄ "	GY-36227-96		GY-36227-79	

Heating Mantles

Aluminum Housed Heating Mantles

No more hot spots

- Get uniform temperature control for low-volume samples
- Rigid housing provides strength and durability while supporting the vessel weight
- Fabric interior minimizes thermal shock and damage to glassware
- Maximum temperature of 842°F (450°C)



Flask Heating Mantles

Mantles feature durable aluminum exterior and soft fabric interior. They cover the bottom half of the flask allowing full view of the contents.

Watts	Flask size (mL)	Flask dia (mm)	Dimensions (ID x OD x H)	VAC	Catalog number	Price
180	250	83	3¼" x 6¼" x 4½" (8.3 x 15.9 x 11.4 cm)	115	GY-36233-00	
				230	GY-36233-06	
270	500	101	4" x 6¼" x 5" (10.2 x 15.9 x 12.7 cm)	115	GY-36233-10	
				230	GY-36233-16	
380	1000	137	5½" x 7½" x 5" (13.7 x 19.1 x 12.7 cm)	115	GY-36233-20	
				230	GY-36233-26	
500	2000	170	6½" x 9" x 5¼" (16.0 x 22.9 x 13.3 cm)	115	GY-36233-30	
				230	GY-36233-36	
500	3000	183	7½" x 10" x 7" (18.3 x 25.4 x 17.8 cm)	115	GY-36233-40	
				230	GY-36233-46	
600	5000	220	8½" x 12" x 7" (21.9 x 30.5 x 17.8 cm)	115	GY-36233-50	
				230	GY-36233-56	
2 at 650	12,000	293	11½" x 16½" x 9" (29.2 x 41.9 x 22.9 cm)	115	GY-36233-60	
				230	GY-36233-66	
2 at 770	22,000	347	13½" x 19" x 10" (34.6 x 48.3 x 25.4 cm)	115	GY-36233-70	
				230	GY-36233-76	

Griffin-Style Beaker Heating Mantles

These heating mantles have a resilient and pliable interior to safely cradle your fragile glass beakers. Heat is concentrated at the bottom allowing small liquid volumes to be heated.



Watts	Beaker size (mL)	Opening (dia x D)	Dimensions (W x H x D)	VAC	Catalog number	Price
325	600	3⅞" x 3¾" (9 x 9.5 cm)	3½" x 6¼" x 5½" (8.9 x 15.9 x 14 cm)	115	GY-36235-00	
				230	GY-36235-06	
430	1000	4¼" x 4½" (10.8 x 11.4 cm)	4¼" x 7½" x 6" (10.8 x 19 x 15.2 cm)	115	GY-36235-10	
				230	GY-36235-16	

Wait! Don't Forget...

Heat-Resistant Gloves, see page 416.



Controlled Heating Mantles

Don't get burned—outside stays "safe to the touch"

- Hold round-bottom, Erlenmeyer, and volumetric flasks
- Maximum element temperature of 842°C (450°C)
- Built-in energy regulator

CMU Series Heating Mantles

Electric heating mantles incorporate a heating element suspended within a ceramic fiber insulating material for safe heat transfer. They have a stainless steel grounded earth screen covering the element and are double-fused for added safety. Units have a built-in power controller with a 1 to 10 scale. The metal case remains "cool to the touch" when in operation.



Two colored lights indicate "power on" and "heat on." Mantles feature a single support rod clamp that accepts a ½" rod. Include 6½-ft (2-m) power cord; the 115 VAC models have a US plug (230 VAC models do not have a plug).



Watts	Flask size (mL)	Dimensions (W x H x D)	VAC	Catalog number	Price
150	250	9¼" x 4½" x 13½" (23.5 x 11.4 x 34.3 cm)	115	GY-03012-31	
			230	GY-03012-33	
200	500	11" x 5½" x 15½" (27.9 x 14 x 39 cm)	115	GY-03012-41	
			230	GY-03012-43	
300	1000	11" x 5½" x 15½" (27.9 x 14 x 39 cm)	115	GY-03012-51	
			230	GY-03012-53	

EM Series Heating Mantles

These controlled and grounded electromantles feature a built-in power regulator and safety earth (ground) screen. They allow for maximum heat transfer with minimal risk of flask breakage. Durable polypropylene outer housing withstands damage from spills and chemicals.



Indicator lights include an amber-colored "power on" light and a clear-colored "heater on" light. All mantles are double fused and have a single support rod clamp that accepts a ½" rod. Include 6½-ft (2-m) power cord; the 115 VAC models have a US plug (230 VAC models do not have a plug).



Watts	Flask size (mL)	Dimensions (W x H x D)	VAC	Catalog number	Price
150	250	10⅞" x 5" x 7" (25.8 x 12.7 x 17.8 cm)	115	GY-36002-08	
			230	GY-36002-10	
200	500	12⅞" x 5⅝" x 9⅝" (30.9 x 14.4 x 23.7 cm)	115	GY-36002-12	
			230	GY-36002-14	
300	1000	12⅞" x 5⅝" x 9⅝" (30.9 x 14.4 x 23.7 cm)	115	GY-36002-16	
			230	GY-36002-18	
500	2000	15½" x 7½" x 13½" (40.1 x 19.1 x 35.0 cm)	115	GY-36002-20	
			230	GY-36002-22	
300/500	5000	15½" x 7½" x 13½" (40.1 x 19.1 x 35.0 cm)	115	GY-36002-28	
			230	GY-36002-30	