

Electrothermal Heating Mantles



Electromantle (EM)



EMD500/CEX1



Model MC242X1

Hottest Selling Cool Case Heating Mantle!

- Durable polypropylene housing is chemically resistant
- Replaceable heating element cartridge
- Four mantle types are included in this series

CE

Basic and grounded EM mantles are supplied without controllers and require external temperature controls for improved safety. (Recommended MC242 models.) See controllers section on page 114.

Product Description

- Vented case creates a unique air flow which allows housing to be safe to the touch when in use.
- Outer housing is constructed of chemical resistant and resilient polypropylene minimizing damage from spillage.
- Element temperature range from ambient to 450°C.
- The coiled heating element is suspended within a thermal insulating cartridge to provide maximum heat transfer and support.
- The flexible heating element ensures minimum risk of flask breakage.
- Heating cartridge can be quickly and simply replaced.
- Five liter mantles have two heating elements (upper and lower); the upper element can be switched on/off.

Basic EM

- Available in eight flask capacities from 50 ml to 5 liters.
- “Heater On” light indicates when power is being supplied to the heater.
- All mantles are double fused for added safety.
- Support rod holder accepts .5" (12.7 mm) diameter support rods.

Basic and Grounded (Earthed) EM

- This series has all the same features as the Basic EM mantles but also incorporates a grounding screen for additional operator safety.
- CE approved.

Controlled EM Mantle

- This series has all the same features as the Basic EM mantles and has a built-in power control that regulates element temperatures from ambient to 450°C.
- An amber “Heater On” light indicates when power is being supplied to the heaters.
- A clear “Power On” light indicates when the power is on.

Controlled and Grounded EM Mantle

- Includes all of the features of the Basic and Grounded EM mantle with the added built-in power controller and grounding screen.
- Built-in power controller regulates temperatures from ambient to 450°C.
- An amber “Heater On” light indicates when power is being supplied to the heaters.
- A clear “Power On” light indicates when the power is on.
- The stainless steel grounding screen provides added protection against shock should spillage or flask breakage occur.
- CE approved.

Electrothermal Heating Mantles



Model MC810BX1



Model MC242X1

Mantles are supplied without controllers and require external power controls to prevent damage to the mantle. Recommended models: MC242, MC242X1, MC810B and MC810BX1. See controllers section on page 114.

ORDERING INFORMATION

Model #	Electrical (50/60 Hz)		Capacity (ml)	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)	US List Price
	Volts	Watts		W	H	D		
Basic EM								
EM0050	230	60	50	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$230.00
EM0100	230	60	100	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$231.00
EM0250	230	150	250	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$237.00
EM0500	230	200	500	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$247.00
EM1000	230	300	1000	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$263.00
EM2000	230	500	2000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$270.00
EM3000	230	500	3000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$316.00
EM5000	230	300 +500	5000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$369.00
EM0050X1	115	72	50	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$230.00
EM0100X1	115	72	100	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$231.00
EM0250X1	115	150	250	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$237.00
EM0500X1	115	200	500	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$247.00
EM1000X1	115	300	1000	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$263.00
EM2000X1	115	500	2000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$270.00
EM3000X1	115	500	3000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$316.00
EM5000X1	115	300 +500	5000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$369.00
Basic and Grounded EM								
EM0050/E ¹	230	60	50	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$254.00
EM0100/E ¹	230	60	100	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$254.00
EM0250/E ¹	230	150	250	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$260.00
EM0500/E ¹	230	200	500	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$270.00
EM1000/E ¹	230	300	1000	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$286.00
EM2000/E ¹	230	500	2000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$295.00
EM3000/E ¹	230	500	3000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$339.00
EM5000/E ¹	230	300 +500	5000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$393.00
EM0050/EX1 ¹	115	72	50	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$254.00
EM0100/EX1 ¹	115	72	100	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$254.00
EM0250/EX1 ¹	115	150	250	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$260.00
EM0500/EX1 ¹	115	200	500	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$270.00
EM1000/EX1 ¹	115	300	1000	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$286.00
EM2000/EX1 ¹	115	500	2000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$295.00
EM3000/EX1 ¹	115	500	3000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$339.00
EM5000/EX1 ¹	115	300 +500	5000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$393.00
Controlled EM								
EM0050/C	230	60	50	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$286.00
EM0100/C	230	60	100	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$291.00
EM0250/C	230	150	250	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$309.00
EM0500/C	230	200	500	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$322.00
EM1000/C	230	300	1000	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$338.00
EM2000/C	230	500	2000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$459.00
EM3000/C	230	500	3000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$478.00
EM5000/C	230	300 +500	5000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$514.00
EM0050/CX1	115	72	50	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$286.00
EM0100/CX1	115	72	100	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$291.00
EM0250/CX1	115	150	250	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$309.00
EM0500/CX1	115	200	500	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$322.00
EM1000/CX1	115	300	1000	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$339.00
EM2000/CX1	115	500	2000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$459.00
EM3000/CX1	115	500	3000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$478.00
EM5000/CX1	115	300 +500	5000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$514.00
Controlled and Grounded EM								
EM0050/CE ¹	230	60	50	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$297.00
EM0100/CE ¹	230	60	100	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$309.00
EM0250/CE ¹	230	150	250	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$327.00
EM0500/CE ¹	230	200	500	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$351.00
EM1000/CE ¹	230	300	1000	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$356.00
EM2000/CE ¹	230	500	2000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$472.00
EM3000/CE ¹	230	500	3000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$477.00
EM5000/CE ¹	230	300 +500	5000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$533.00
EM0050/CEX1 ¹	115	72	50	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$297.00
EM0100/CEX1 ¹	115	72	100	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$309.00
EM0250/CEX1 ¹	115	150	250	10.2 (25.4)	5 (12.7)	7 (17.5)	2.6 (1.18)	\$327.00
EM0500/CEX1 ¹	115	200	500	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$351.00
EM1000/CEX1 ¹	115	300	1000	12.2 (31.0)	5.7 (14.5)	9.4 (23.8)	4.1 (1.87)	\$356.00
EM2000/CEX1 ¹	115	500	2000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$472.00
EM3000/CEX1 ¹	115	500	3000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$477.00
EM5000/CEX1 ¹	115	300 +500	5000	15.8 (40.0)	7.5 (19.0)	13.8 (35.0)	8.0 (3.68)	\$533.00

¹ CE