

## Electrothermal EM Series Heating Mantles



**Electrothermal Electromantle features a durable, chemically resistant, polypropylene outer housing that minimizes damage from spills.**

Electrothermal Electromantles feature maximum heat transfer with minimum risk for flask breakage

- Element temperature 450°C (842°F)
- Use with round-bottom flasks from 50ml to 5L
- Built-in energy regulator
- Insulated material in removable heater cartridge
- Pilot lamps for power and heater operation
- Model EM5000/CE has two circuits

**Includes:** Clamps for 0.5in.diameter (1.3cm) support rods, grounded line cord

**Warranty:** Once year parts and labour

**Certifications:** CE

Specifications		
Material		Polypropylene Case
Max. Element Temperature		842° F (450° C)
Cat. No.	Capacity	Electrical Requirement
EM0050/CE	50ml (0.01gal)	230v 50/60Hz, 60w
EM0050/CEX1	50ml (0.01gal)	115v 50/60Hz, 70w
EM0050/CEX6	50ml (0.01gal)	230v 50/60Hz, 60w, EU Plug
EM0100/CE	100ml (0.02gal)	230v 50/60Hz, 60w
EM0100/CEX1	100ml (0.02gal)	115v 50/60Hz, 70w
EM0100/CEX6	100ml (0.02gal)	230v 50/60Hz, 60w, EU Plug
EM0250/CE	250ml (0.06gal)	230v 50/60Hz, 150w
EM0250/CEX1	250ml (0.06gal)	115v 50/60Hz, 150w
EM0250/CEX6	250ml (0.06gal)	230v 50/60Hz, 150w, EU Plug
EM0500/CE	500ml (0.13gal)	230v 50/60Hz, 200w
EM0500/CEX1	500ml (0.13gal)	115v 50/60Hz, 200w
EM0500/CEX6	500ml (0.13gal)	230v 50/60Hz, 200w EU Plug
EM1000/CE	1000ml (0.26 gal)	230v 50/60Hz, 300w
EM1000/CEX1	1000ml (0.26 gal)	115v 50/60Hz, 300w
EM1000/CEX6	1000ml (0.26 gal)	230v 50/60Hz, 300w, EU Plug
EM2000/CE	2000ml (0.53gal)	230v 50/60Hz, 500w
EM2000/CEX1	2000ml (0.53gal)	115v 50/60Hz, 500w
EM2000/CEX6	2000ml (0.53gal)	230v 50/60Hz, 500w, EU Plug
EM3000/CE	3000ml (0.79gal)	230v 50/60Hz, 500w
EM3000/CEX1	3000ml (0.79gal)	115v 50/60Hz, 500w
EM3000/CEX6	3000ml (0.79gal)	230v 50/60Hz, 500w, EU Plug
EM5000/CE	5000ml (1.32 gal)	230v 50/60Hz, 800w
EM5000/CEX1	5000ml (1.32 gal)	115v 50/60Hz, 800w
EM5000/CEX6	5000ml (1.32 gal)	230v 50/60Hz, 800w, EU Plug

## Electrothermal Heating and Stirring Mantles



The Electrothermal Heating and Stirring Mantle with built-in controller, has a resilient, chemical-resistant polypropylene outer housing that minimizes damage from spills, making it ideal for a broad range of applications.

Designed to stir and heat liquid. Stirring can be single or bi-directional

- Vented case created a unique air flow that allows housing to be safe to the touch when in use
- Grounded screen provides additional safety should liquids spill or flasks break
- Heating cartridge can be quickly and easily replaced
- Mantles are double fused for added safety
- Automatic capture catches the stir-bar to start stirring if stirring is disrupted
- Two indicator lights signal power on and heater on

**Warranty:** One year parts and labour

**Certifications:** CE

Specifications		
Material		Polypropylene
Max. Element Temperature		450° C (842° F)
Cat. No.	Capacity	Electrical Requirements
EMA0050/CEB	50ml (0.01gal)	230v 50/60Hz, 80w
EMA0050/CEBX1	50ml (0.01gal)	115v 50/60Hz, 96w
EMA0050/CEBX6	50ml (0.01gal)	230v 50/60hz, 80W EU Plug
EMA0100/CEB	100ml (0.02gal)	230v 50/60Hz, 80w
EMA0100/CEBX1	100ml (0.02gal)	115v 50/60Hz, 96w
EMA0100/CEBX6	100ml (0.02gal)	230v 50/60hz, 80W EU Plug
EMA0250/CEB	250ml (0.06gal)	230v 50/60Hz, 170w
EMA0250/CEBX1	250ml (0.06gal)	115v 50/60Hz, 210w
EMA0250/CEBX6	250ml (0.06gal)	230v 50/60Hz, 170w EU Plug
EMA0500/CEB	500ml (0.13gal)	230v 50/60Hz, 220w
EMA0500/CEBX1	500ml (0.13gal)	115v 50/60Hz, 270w
EMA0500/CEBX6	500ml (0.13gal)	230v 50/60Hz, 220w EU Plug
EMA1000/CEB	1000ml (0.26gal)	230v 50/60Hz, 320w
EMA1000/CEBX1	1000ml (0.26gal)	115v 50/60Hz, 400w
EMA1000/CEBX6	1000ml (0.26gal)	230v 50/60Hz, 320w EU Plug
EMA2000/CEB	2000ml (0.53gal)	230v 50/60Hz, 520w
EMA2000/CEBX1	2000ml (0.53gal)	115v 50/60Hz, 595w
EMA2000/CEBX6	2000ml (0.53gal)	230v 50/60Hz, 520w, EU Plug

## **Electrothermal Electromantle Extraction Heaters**



**The Electrothermal Electromantle Extraction Heater with three and six recesses has a built-in electronic controller and offers a choice of heater only or heater/stirrer combination.**

Vented case's unique air flow ensures the case remains "cool-to-the-touch."

### **Heater and Heater/Stirrer Models (As Shown in Images Above)**

- Individual built-in solid state electronic controls enable easy regulation of heater, while removing sparking associated with mechanical switching
- Three 12.7mm(0.5in) diameter support rods are included
- Top cover is polypropylene and external surfaces are powder coated and resistant to most chemical solutions
- Coiled heating element is suspended within a thermal insulating cartridge to provide maximum heat transfer and support, while removing sparking associated with mechanical switching
- Heater cartridge is easy to replace
- Earth (ground) screen encloses the heater for added safety
- Pilot lights indicate when power is on and supplied to heaters and supplied to stirrers

### **Heater/Stirrer Models (As Shown in Images Above)**

- Stirrer models include a stirring speed of 50 to 1000rpm
- One stirring control operates each set of three recesses
- Stirring Module allows the solution to be stirred and heated simultaneously

**Warranty:** One year parts and labour

**Certification:** CE

### Thermo Scientific Electromantle Extraction Heaters 3 Recess Model

Specifications						
Max. Element Temperature		450°C				
Material		Polypropylene Top on Stove painted aluminium				
Cat. No.	Flask Capacity	Interior DxWxH	No. of Circuits	Electrical Requirements	Watts	Shipping Weight
<b>Heating Model Only</b>						
EME3 0100/CEB	3x100ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz	180w	6kg (13 lbs)
EME3 0100/CEBX1	3x100ml	26x63x9cm (10.23x24.80x3.54in)	3	115v 50/60Hz	180w	6kg (13 lbs)
EME3 0100/CEBX6	3x100ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz, EU Plug	180w	6kg (13 lbs)
EME3 0250/CEB	3X250ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz	450w	7kg (15.4lbs)
EME3 0250/CEBX1	3x250ml	26x63x9cm (10.23x24.80x3.54in)	3	115v 50/60Hz	450w	7kg (15.4lbs)
EME3 0250/CEBX6	3x250ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz, EU Plug	450w	7kg (15.4lbs)
EME3 0500/CEB	3x500ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz	600w	7.4kg(16 lbs)
EME3 0500/CEBX1	3x500ml	26x63x9cm (10.23x24.80x3.54in)	3	115v 50/60Hz	600w	7.4kg(16 lbs)
EME3 0500/CEBX6	3x500ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60HZ, EU Plug	600w	7.4kg(16 lbs)
EME3 1000/CEB	3x1000ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz	900w	7.4kg(16 lbs)
EME3 1000/CEBX1	3x1000ml	26x63x9cm (10.23x24.80x3.54in)	3	115v 50/60Hz	900w	7.4kg(16 lbs)
EME3 1000/CEBX6	3x1000ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60HZ, EU Plug	900w	7.4kg(16 lbs)

### Thermo Scientific Electromantle Extraction Heaters 6 Recess Model

Specifications						
Max. Element Temperature		450°C				
Material		Polypropylene Top on Stove painted aluminium				
Cat. No.	Flask Capacity	Interior DxWxH	No. of Circuits	Electrical Requirements	Watts	Shipping Weight
<b>Heating Model Only</b>						
EME6 0100/CEB	6x100ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz	420w	11.1kg (24.7lbs)
EME6 0100/CEBX1	6x100ml	26x120x9cm (10.23x47.24x3.54in)	6	115v 50/60Hz	420w	11.1kg (24.7lbs)
EME6 0100/CEBX6	6x100ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz, EU Plug	420w	11.1kg (24.7lbs)
EME6 0250/CEB	6X250ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz	900w	10kg (22lbs)
EME6 0250/CEBX1	6x250ml	26x120x9cm (10.23x47.24x3.54in)	6	115v 50/60Hz	900w	10kg (22lbs)
EME6 0250/CEBX6	6x250ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz, EU Plug	900w	10kg (22lbs)
EME6 0500/CEB	6x500ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz	1200w	12.5kg (28lbs)
EME6 0500/CEBX1	6x500ml	26x120x9cm (10.23x47.24x3.54in)	6	115v 50/60Hz	1200w	12.5kg (28lbs)
EME6 0500/CEBX6	6x500ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60HZ, EU Plug	1200w	12.5kg (28lbs)
EME6 1000/CEB	6x1000ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz	1800w	12.5kg (28lbs)
EME6 1000/CEBX1	6x1000ml	26x120x9cm (10.23x47.24x3.54in)	6	115v 50/60Hz	1800w	12.5kg (28lbs)
EME6 1000/CEBX6	6x1000ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60HZ, EU Plug	1800w	12.5kg (28lbs)

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### Heater/Stirrer Models (As Shown in Images Above)

- Stirrer models include a stirring speed of 50 to 1000rpm
- One stirring control operates each set of three recesses
- Stirring Module allows the solution to be stirred and heated simultaneously

**Warranty:** One year parts and labour

**Certification:** CE



### Thermo Scientific Electromantle Extraction Heaters 3 Recess Model

Specifications						
Max. Element Temperature		450°C				
Material		Polypropylene Top on Stove painted aluminium				
Cat. No.	Flask Capacity	Interior DxWxH	No. of Circuits	Electrical Requirements	Watts	Shipping Weight
Heating/Stirrer Model						
EMEA3 0100/CE	3x100ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz	220w	7kg (15.4lbs)
EMEA3 0100/CEX1	3x100ml	26x63x9cm (10.23x24.80x3.54in)	3	115v 50/60Hz	220w	7kg (15.4lbs)
EMEA3 0100/CEX6	3x100ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz, EU Plug	220w	7kg (15.4lbs)
EMEA3 0250/CE	3x250ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz	490w	7kg (15.4lbs)
EMEA3 0250/CEX1	3x250ml	26x63x9cm (10.23x24.80x3.54in)	3	115v 50/60Hz	490w	7kg (15.4lbs)
EMEA3 0250/CEX6	3x250ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz, EU Plug	490w	7kg (15.4lbs)
EMEA3 0500/CE	3x500ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz	640w	8.4kg(18.4lbs)
EMEA3 0500/CEX1	3x500ml	26x63x9cm (10.23x24.80x3.54in)	3	115v 50/60Hz	640w	8.4kg(18.4lbs)
EMEA3 0500/CEX6	3x500ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz, EU Plug	640w	8.4kg(18.4lbs)
EMEA3 1000/CE	3x1000ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz	940w	8.4kg(18.4lbs)
EMEA3 1000/CEX1	3x1000ml	26x63x9cm (10.23x24.80x3.54in)	3	115v 50/60Hz	940w	8.4kg(18.4lbs)
EMEA3 1000/CEX6	3x1000ml	26x63x9cm (10.23x24.80x3.54in)	3	230v 50/60Hz, EU Plug	940w	8.4kg(18.4lbs)

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Specifications						
Max. Element Temperature		450°C				
Material		Polypropylene Top on Stove painted aluminium				
Cat. No.	Flask Capacity	Interior DxWxH	No. of Circuits	Electrical Requirements	Watts	Shipping Weight
Heating/Stirrer Model						
EMEA6 0100/CE	6x100ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz	500w	10kg (22lbs)
EMEA6 0100/CEX1	6x100ml	26x120x9cm (10.23x47.24x3.54in)	6	115v 50/60Hz	500w	10kg (22lbs)
EMEA6 0100/CEX6	6x100ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz, EU Plug	500w	10kg (22lbs)
EMEA6 0250/CE	6x250ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz	980w	10kg (22lbs)
EMEA6 0250/CEX1	6x250ml	26x120x9cm (10.23x47.24x3.54in)	6	115v 50/60Hz	980w	10kg (22lbs)
EMEA6 0250/CEX6	6x250ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz, EU Plug	980w	10kg (22lbs)
EMEA6 0500/CE	6x500ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz	1280w	12.5kg (28lbs)
EMEA6 0500/CEX1	6x500ml	26x120x9cm (10.23x47.24x3.54in)	6	115v 50/60Hz	1280w	12.5kg (28lbs)
EMEA6 0500/CEX6	6x500ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz, EU Plug	1280w	12.5kg (28lbs)
EMEA6 1000/CE	6x1000ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz	1880w	12.5kg (28lbs)
EMEA6 1000/CEX1	6x1000ml	26x120x9cm (10.23x47.24x3.54in)	6	115v 50/60Hz	1880w	12.5kg (28lbs)
EMEA6 1000/CEX6	6x1000ml	26x120x9cm (10.23x47.24x3.54in)	6	230v 50/60Hz, EU Plug	1880w	12.5kg (28lbs)



## MC810B Digital Temperature Controller



It can be used either in ON/OFF mode with the hysteresis loop controlling power switching or it can be used as a PID (Proportional, Integrated, Derivative) controller. Alternatively it may be used simply as a temperature measuring device.

Temperature sensing is performed by a plug-in platinum resistance probe. The sample temperature is displayed on the LED display. This product is suitable for bench and retort stand mounting or wall mounting using the bracket and screws provided.

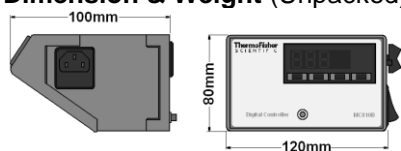
The MC810B has a short mains output lead with an IEC socket to connect it to the resistive load. An accessory extension mains lead is available where remote operation is required (e.g. in a fume extraction unit).

The MC810B controller must be used in conjunction with a suitable heating or cooling device e.g. mantle, electric Bunsen or hotplate.

### TECHNICAL SPECIFICATIONS.

Mains supply voltage	220-240V~AC 50/60 Hz – (MC810B, MKII).
<b>Maximum load</b>	<b>230V = 1500 Watts</b>
Controller power consumption	230V = 2W
Fuse rating at Relay output	230V = F8A 20mm x 5mm Glass Quickblow. 12A switching. <b>Note:</b> 12A not available for use. The unit is fused at 8A see max load – Watts.
Mains Power Lead set (UK) 13A BS1362	3 core earthed / ground. 2 meters long. Moulded IEC plug and Lead set – supply cord H0 V V-F- <b>Replace only with equivalent cable.</b>
Lead set plug fuse (UK – only)	13A (BSEN1362).
Mains Output	Non-detachable 3-core mains cable with moulded IEC socket (230V)
Temperature Probe Input	5-pin DIN socket
Rod Clamp size	12.7mm diameter
Output ON Indication	Amber Neon (front panel).
Case Construction	Die cast Aluminium.
On / Off control	Rocker Switch.

### Dimension & Weight (Unpacked).



**Weight 1.1Kg**



# Wolf Laboratories Limited

[www.wolflabs.co.uk](http://www.wolflabs.co.uk)

Tel: 01759 301142

Fax: 01759 301143

[sales@wolflabs.co.uk](mailto:sales@wolflabs.co.uk)



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

