



## EM Electromantles

### EM, EMA, EMV and EMX Series

The original "Electromantles" revolutionised round bottom flask heating by incorporating a coiled flexible heating element, which ingeniously wraps the heater around the flask to optimise heat transfer. For maximum safety, the flask is held away from direct contact with the heating element via a grounded earth screen.

This design principle has stood the test of time and has been imitated the world over. With many years of experience, Electrothermal remains at the forefront of laboratory heating and its associated controlling technology.

Page 20	EM Electromantles
Page 22	EMA Electromantles
Page 23	EMV Electromantles
Page 24	EMX Electromantles

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# EM Series

## Heating Electromantle

The EM Electromantle series features a durable, chemically resistant, polypropylene outer housing that minimises damage from spills. They allow maximum heat transfer with minimum risk for flask breakage.

### Robust and economical

Designed with simplicity, flexibility and ease of use, the EM series Electromantle is designed to be the workhorse for your heating applications. All EMs have a built-in energy regulator with indicator lamps for power and heater operation. All mantles have support rod clamps as an integral feature and incorporate a grounded earth screen and double fuses for added safety. Larger capacity products have multiple heating elements, enabling a more even and directed transfer of heat.

### 50ml - 250ml Ordering Information

Dimensions (d x w x h), mm      260 x 175 x 127  
Shipping Weight, kg              0.78

Model	Capacity	Electrical Requirements
EM0050/CE	50ml	230V 50/60Hz, 60W
EM0050/CEX1	50ml	115V 50/60Hz, 70W
EM0050/CEX6*	50ml	230V 50/60Hz, 60W
EM0100/CE	100ml	230V 50/60Hz, 60W
EM0100/CEX1	100ml	115V 50/60Hz, 70W
EM0100/CEX6*	100ml	230V 50/60Hz, 60W
EM0250/CE	250ml	230V 50/60Hz, 150W
EM0250/CEX1	250ml	115V 50/60Hz, 150W
EM0250/CEX6*	250ml	230V 50/60Hz, 150W

### 500ml - 1000ml Ordering Information

Dimensions (d x w x h),mm      310 x 238 x 145  
Shipping Weight, kg              1.25

Model	Capacity	Electrical Requirements
EM0500/CE	500ml	230V 50/60Hz, 200W
EM0500/CEX1	500ml	115V 50/60Hz, 200W
EM0500/CEX6*	500ml	230V 50/60Hz, 200W
EM1000/CE	1000ml	230V 50/60Hz, 300W
EM1000/CEX1	1000ml	115V 50/60Hz, 300W
EM1000/CEX6*	1000ml	230V 50/60Hz, 300W

## Key Features

- Cool-to-the-touch design
- Max element temperature 450°C
- Built-in energy regulator
- Model EME5000/CE has 2 circuits for upper and lower level heating
- Replaceable insulated heater cartridge
- Indicator lamps for power and heater operation
- A chemically resistant polypropylene outer casing
- A grounded earth screen and double fuses for added safety
- Clamps for 1.3cm diameter support (but not including support rods)



EM Series

## EM Series

### Heating Electromantle

#### 2000ml - 5000ml Ordering Information

Dimensions (d x w x h), mm	400 x 350 x 190
Shipping Weight, kg	2.58

Model	Capacity	Electrical Requirements
EM2000/CE	2000ml	230V 50/60Hz, 500W
EM2000/CEX1	2000ml	115V 50/60Hz, 500W
EM2000/CEX6*	2000ml	230V 50/60Hz, 500W
EM3000/CE	3000ml	230V 50/60Hz, 500W
EM3000/CEX1	3000ml	115V 50/60Hz, 500W
EM3000/CEX6*	3000ml	230V 50/60Hz, 500W
EM5000/CE	5000ml	230V 50/60Hz, 800W
EM5000/CEX1	5000ml	115V 50/60Hz, 800W
EM5000/CEX6*	5000ml	230V 50/60Hz, 800W

EM Series  
with glassware

*\*Comes with EU Plug fitting*



# EMA Series

## Heating and Stirring Electromantle

The EMA Electromantle shares all the standard features of the standard EM but has the added functionality of magnetic stirring. The solid state stirring circuitry is built into the base of the main housing and provides powerful stirring over a range of capacities and viscosities. The stir speed is easily adjusted and is bi-directional. The stir bar is seldom lost due to our "auto-recapture" function.

### Magnetic Stirring

The EMA stirring Electromantle has the added functionality of solution stirring which widens the range of applications. Stirring operation is simply achieved by placing the correct size bar into the flask, turning the stir control to the minimum speed and ramping up slowly. If the magnetic coupling to the stir bar is lost for any reason, the speed control should be reduced slightly and the auto-recapture switch can be activated.

### 50ml - 250ml Ordering Information

Dimensions (d x w x h), mm 260 x 175 x 133  
Shipping Weight, kg 1.73

Model	Capacity	Electrical Requirements
EMA0050/CEB	50ml	230V 50/60Hz, 80W
EMA0050/CEBX1	50ml	115V 50/60Hz, 96W
EMA0050/CEBX6*	50ml	230V 50/60Hz, 80W
EMA0100/CEB	100ml	230V 50/60Hz, 80W
EMA0100/CEBX1	100ml	115V 50/60Hz, 96W
EMA0100/CEBX6*	100ml	230V 50/60Hz, 80W
EMA0250/CEB	250ml	230V 50/60Hz, 170W
EMA0250/CEBX1	250ml	115V 50/60Hz, 210W
EMA0250/CEBX6*	250ml	230V 50/60Hz, 170W

### 500ml - 1000ml Ordering Information

Dimensions (d x w x h), mm 310 x 238 x 157  
Shipping Weight, kg 2.75

Model	Capacity	Electrical Requirements
EMA0500/CEB	500ml	230V 50/60Hz, 220W
EMA0500/CEBX1	500ml	115V 50/60Hz, 270W
EMA0500/CEBX6*	500ml	230V 50/60Hz, 220W
EMA1000/CEB	1000ml	230V 50/60Hz, 320W
EMA1000/CEBX1	1000ml	115V 50/60Hz, 400W
EMA1000/CEBX6*	1000ml	230V 50/60Hz, 320W

### 2000ml Ordering Information

Dimensions (d x w x h), mm 400 x 350 x 197  
Shipping Weight, kg 5.68

Model	Capacity	Electrical Requirements
EMA2000/CEB	2000ml	230V 50/60Hz, 520W
EMA2000/CEBX1	2000ml	115V 50/60Hz, 670W
EMA2000/CEBX6*	2000ml	230V 50/60Hz, 520W

\*Comes with EU Plug fitting

## Key Features

- Accepts flasks from 50ml to 2 litre capacity
- Bi-directional stirring speeds up to 520rpm
- Stir bar "auto-recapture" function
- 'Cool-to-the-touch' design
- Element temperature 450°C
- Built-in energy regulator
- Replaceable insulated heater cartridge
- A chemically resistant polypropylene outer casing
- A grounded earth screen and double fuses for added safety
- Clamps for 1.3cm diameter supports (not including support rods)



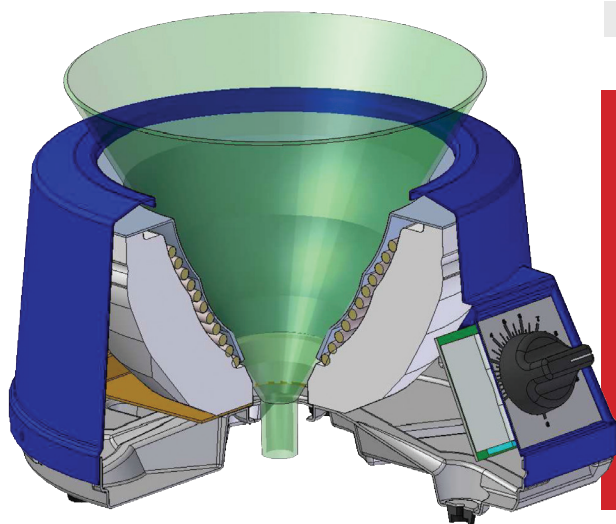
EMA Series

## Key Features

- Bottom opening accommodates round bottom & pear-shaped flasks and 60° funnels
- Capacity between 10ml to 5 litres
- Coiled heating element, suspended within a thermal insulating cartridge, provides maximum heat transfer and support
- Cool-to-the-touch design
- Max element temperature of 450°C
- Built-in energy regulator
- Replaceable insulated heater cartridge
- Indicator lamps for power and heater operation
- A chemically resistant polypropylene outer casing
- A grounded earth screen and double fuses for added safety
- Clamps for 1.3cm diameter supports (not including support rods)



## EMV Series



## EMV Series

### V-Shaped Electromantle

Spill-proof Mantles and V-Shaped Mantles may accommodate 60° funnels, pear-shaped or round-bottom flasks. They have been designed to accept a large range of flask and funnel sizes for added flexibility.

Stainless steel screen on all EMV models covers the heater element to protect you from shock hazards due to spills or flask breakage.

### 10ml - 50ml Ordering Information

Dimensions (d x w x h), mm	260 x 175 x 127
Shipping Weight, kg	0.78

Model	Capacity	Electrical Requirements
EMV0050/CE	10 to 50ml	230V 50/60Hz, 60W
EMV0050/CEX1	10 to 50ml	115V 50/60Hz, 70W
EMV0050/CEX6*	10 to 50ml	230V 50/60Hz, 60W
EMV0250/CE	100 to 250ml	230V 50/60Hz, 150W
EMV0250/CEX1	100 to 250ml	115V 50/60Hz, 150W
EMV0250/CEX6*	100 to 250ml	230V 50/60Hz, 150W

### 500ml - 1000ml Ordering Information

Dimensions (d x w x h), mm	310 x 238 x 145
Shipping Weight, kg	2.76

Model	Capacity	Electrical Requirements
EMV1000/CE	500 to 1000ml	230V 50/60Hz, 300W
EMV1000/CEX1	500 to 1000ml	115V 50/60Hz, 300W
EMV1000/CEX6*	500 to 1000ml	230V 50/60Hz, 300W

### 2000ml - 5000ml Ordering Information

Dimensions (d x w x h), mm	400 x 350 x 190
Shipping Weight, kg	5.96

Model	Capacity	Electrical Requirements
EMV5000/CE	2000 to 5000ml	230V 50/60Hz, 800W
EMV5000/CEX1	2000 to 5000ml	115V 50/60Hz, 800W
EMV5000/CEX6*	2000 to 5000ml	230V 50/60Hz, 800W

\*Comes with EU Plug fitting

# EMX Series

## Spill-proof Electromantle

Spill-proof Mantles and V-Shaped Mantles may accommodate 60° funnels, pear-shaped or round-bottom flasks. They have been designed to accept a large range of flask and funnel sizes for added flexibility.

A stainless steel liner on all EMX models provides extra electrical and mechanical protection against spills and ensures easy cleaning.

### 500ml - 1000ml Ordering Information

Dimensions (d x w x h), mm 310 x 238 x 145  
Shipping Weight, kg 2.76

Model	Capacity	Electrical Requirements
EMX1000/SCE	500 to 1000ml	230V 50/60Hz, 245W
EMX1000/SCEX1	500 to 1000ml	115V 50/60Hz, 240W
EMX1000/SCEX6*	500 to 1000ml	230V 50/60Hz, 245W

### 2000ml - 5000ml Ordering Information

Dimensions (d x w x h), mm 400 x 350 x 190  
Shipping Weight, kg 5.96

Model	Capacity	Electrical Requirements
EMX5000/SCE	2000 to 5000ml	230V 50/60Hz, 600W
EMX5000/SCEX1	2000 to 5000ml	115V 50/60Hz, 600W
EMX5000/SCEX6*	2000 to 5000ml	230V 50/60Hz, 600W

\*Comes with EU Plug fitting

## Key Features

- Bottom opening accommodates round bottom & pear-shaped flasks and 60° funnels
- Capacity between 500ml to 5 litres
- Coiled heating element, suspended within a thermal insulating cartridge, provides maximum heat transfer and support
- Cool-to-the-touch design
- Max element temperature of 450°C
- Built-in energy regulator
- Replaceable insulated heater cartridge
- Indicator lamps for power and heater operation
- A chemically resistant polypropylene outer casing
- A grounded earth liner and double fuses for added safety
- Clamps for 1.3cm diameter supports (not including support rods)



EMX Series