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Технические характеристики

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Heating

EM Series Electromantles



- ◆ Capacities from 100ml up to 5 litres
- ◆ Polypropylene outer case
- ◆ Replaceable flexible heater cartridge
- ◆ One or more support rod clamps according to mantle capacity
- ◆ Maximum element temperature 450°C
- ◆ Safety earth (ground) screen for operator safety
- ◆ Integral energy regulator control
- ◆ **Flexible heater cartridge.** The heating elements are suspended in a thermal insulating former making for quick and simple replacement
- ◆ **Safety screen.** This earth (ground) screen is preformed in stainless steel and fitted above the heating element. It is earthed (grounded) directly to the supply cable
- ◆ **Standard fitments.** All models incorporate the flexible heater cartridge plus a 'power' on indicator lamp, earth screen and internal fuse. Capacities 50ml to 1 litre have one support clamp and capacities 2 to 5 litre have three clamps. All accept up to 12.7mm diameter rods

Controlled Models

Generally as the standard models but with integral, arbitrary scaled, solid state controller. For 230V 50/60Hz a.c. single phase supplies.

	Ref. EM-	Cap. ml	Rating W
Solid state controller model with earthed screen			
HE215-20	0100/CE	100	60
HE215-25	0250/CE	250	150
HE215-30	0500/CE	500	200
HE215-40	1000/CE	1000	300
HE215-45	2000/CE	2000	500
HE215-50	3000/CE	3000	500
HE215-60	5000/CE	5000	800

Cartridges

Replacements for all EM Series Mantles. For 230V 50/60Hz a.c. single phase supplies.

	Ref.	For mantle ml
HE220-10	RE0100	100
HE220-15	RE0250	250
HE220-20	RE0500	500
HE220-25	RE1000	1000
HE220-45	RE2000	2000
HE220-50	RE3000	3000
HE220-60	RE5000	5000

Support rods – see SL400-series.

Digital temperature controller

Retort rod mounting. With accessory probes to control to +800°C – for details see EE500-75 in the Electrical section.



HE215

Heating

Multimantles



Multipurpose mantles for heating a variety of flasks and funnels.

- ◆ General construction as EM-Mantles
- ◆ Fitted as standard with:
 - safety earth (ground) screen
 - solid state controller
- ◆ Capacities with two heating elements have a switch to enable upper circuit to be switched off when heating small vessels
- ◆ Fitted with clamp for 12.7mm diameter rods (Model EMV5000/CE has three clamps)

Catalogue No.		HE250-15	HE250-20	HE250-30	HE250-45
Model		EMV0050/CE	EMV0250/CE	EMV1000/CE	EMV5000/CE
Capacities Round flasks to BS2734	ml	Pear: 10,25,50 Round: 50	Round: 100 150 250	Round: 500 1000	Round: 2000 3000 5000
Diameters Common 60° filter funnels	mm	50 75 100	75 100	100 150 200	200 250 300
Bottom outlet diameters	mm	18	18	33	68
Wattage & Circuits	W	1 x 60	1 x 50 1 x 100	1 x 100 1 x 200	1 x 300 1 x 500
Switched element		No	Yes	Yes	Yes

Multimantles EMV Series

As described. For 230V 50/60Hz a.c. single phase supplies. Without support rod.

	Ref. EMV
HE250-15	0050/CE
HE250-20	0250/CE
HE250-30	1000/CE
HE250-45	5000/CE

Replacement Heaters

To fit mantles as indicated. For 230V 50/60Hz a.c. single phase supplies.

	Ref. REMV-	For mantle
HE254-15	0050	HE250-15
HE254-20	0250	HE250-20
HE254-30	1000	HE250-30
HE254-45	5000	HE250-45

Support rods – see SL400-series

Spillproof Mantles



- ◆ General construction as EM-Mantles
- ◆ Heating element protected by a stainless steel liner preformed to accommodate a wide range of flasks and funnels
- ◆ Liner is earthed (grounded) for added protection
- ◆ Both models have dual heating elements which can be switched
- ◆ Time proportional arbitrarily scaled controller

Catalogue No.	HE270-15	HE270-30
Model	EMX1000/ SCE	EMX5000/ SCE
Capacities Round bottom flasks 60° funnels	50-1000ml 50-150mm	500-5000ml 100-300mm
Wattage/Circuits	1 x 165W 1 x 80W	1 x 400W 1 x 200W
Support rod clamps	1	3

Spillproof Mantles EMX Series

As described. For 230V 50/60Hz a.c. single phase supplies. Without support rod.

	Ref. EMX-	Cap. ml
HE270-15	1000/SCE	50-1000
HE270-30	5000/SCE	500-5000

Replacement Heaters

For 230V 50/60Hz a.c. single phase supplies.

	Ref. REMX-	For mantle ml
HE274-15	1000	50-1000
HE274-30	5000	500-5000



HE250



HE270

Heating

Stirrer Mantles



- ◆ Stepless speed control up to approximately 520rpm with auto-reverse facility
- ◆ Time proportional, arbitrarily-scaled heater control
- ◆ Fitted with retort rod clamp for 12.7mm rod (Model EMA2000/CE has three clamps)

Stirrer Mantles EMA Series

As described. For 220-240V 50/60Hz a.c. single phase supplies. Without support rod or magnetic stirrer bar.

	Ref. EMA-	Capacity ml	Rating W
HE300-15	0050/CEB	50	80
HE300-20	0100/CEB	100	80
HE300-25	0250/CEB	250	170
HE300-30	0500/CEB	500	220
HE300-40	1000/CEB	1000	320
HE300-45	2000/CEB	2000	520

Replacement Heaters, REMA Series.

For 220-240V 50/60Hz a.c. single phase supplies.

	For mantle, ml		For mantle, ml
HE304-15	50	HE304-30	500
HE304-20	100	HE304-40	1000
HE304-25	250	HE304-45	2000

3-in-1 Mantle

- ◆ PTFE-coated, spun aluminium outer case
- ◆ Maximum temperature 400°C
- ◆ Accommodates 250ml, 500ml or 1000ml capacity round bottom flasks
- ◆ Solid-state external power control with arbitrary scale, 'Power-on' and 'Heater-on' indicator lamps
- ◆ Dual circuit heating element which can be switched
- ◆ Safety earth ground screen for greater safety

As described. Supplied with solid state external power control, safety earth ground screen over the element and retort rod holder. For 230V 50/60Hz a.c. single phase supplies.

HE310-40 Model CMUT1000/CE

Stirrer bars – see *Stirrers* section.



HE300



HE310-40 in use



HE330 in use

Modular Mantles



Comprises control module for stirring and heating with choice of interchangeable heater cartridges for 250ml, 500ml or 1000ml flasks.

- ◆ Maximum temperature 400°C
- ◆ Stirring range 100 to 800rpm
- ◆ Digital temperature and stirring speed displays
- ◆ Capacitance Touch Control panel
- ◆ Countdown timer, from 99 hours 59 minutes switches off heating after set period
- ◆ Supplied with temperature probe which allows direct sample temperature monitoring from ambient +5°C to 220°C only via probe socket in control module
- ◆ Retort rod mounting provided at rear of housing

Modular Mantles OMNIMANTLE Mk II Series

As described. The control module is supplied with one of a choice of 250ml, 500ml or 1000ml interchangeable flexible heater cartridges with earth screen, magnetic stirrer bar, mains lead and instructions. Overall 235 x 330 x 190mm W x D x H. Weight 3.1kg. For 230V 50/60Hz single phase supplies.

	Ref. OMCA-	Capacity ml
HE330-10	0250	250
HE330-15	0500	500
HE330-20	1000	1000

Spare Temperature Probe

For insertion directly into the fluid being heated, so that its temperature can be read and adjusted directly from the control unit. Pt100 sensor with lead and plug. Maximum operating temperature 250°C.

HE332-08 Probe AZ140940

Accessory/spare Heater Cartridges

For 230V 50/60Hz a.c. single phase supplies.

	For mantle, ml
HE334-25	250
HE334-30	500
HE334-40	1000

Support rods – see *SL400* series.

Bosheads and clamps - see *SL600/SL700* series

Heating

CM Series Heating Mantles



- ◆ Capacities from 50ml up to 5 litres
- ◆ PTFE coated, spun aluminium outer case
- ◆ Accessory exterior or built-in controller models
- ◆ Safety screen. This earth (ground) screen is pre-formed in stainless steel and fitted above the element. It is earthed (grounded) directly to the supply cable
- ◆ Maximum element temperature 450°C
- ◆ Flexible heater cartridge. The heating elements are suspended in a thermal insulating former making for quick and simple replacement
- ◆ Standard fitments. All models incorporate the flexible heater cartridge, earth screen, non-skid feet and are double fused

Standard Models, Uncontrolled

Maximum temperature 450°C. Incorporating heater cartridge, earthed screen and internal fuses. 50ml to 1 litre sizes have a single support rod clamp for rods up to 12.7mm dia., 2 litre to 5 litres sizes have paired clamps to hold a single rod. For 230V 50/60Hz a.c. single phase supplies. It is essential that these mantles are used with an external controller, EE500-20.

	Ref.	Capacity, ml	Rating, W
HE400-15	CMU0050/E	50	75
HE400-20	CMU0100/E	100	100
HE400-25	CMU200-250/E	200-250	200
HE400-30	CMU0500/E	500	280
HE400-40	CMU1000/E	1000	380
HE400-45	CMU2000/E	2000	500
HE400-50	CMU3000/E	3000	500
HE400-60	CMU5000/E	5000	300 + 500*

*Dual heating element model.

Replacement Heater Element Cartridges

Maximum 450°C. For 230V 50/60Hz single phase supplies.

	For Mantle, ml	Rating, W
For uncontrolled HE400-series		
HE475-15	50	75
HE475-20	100	100
HE475-25	200-250	200
HE475-30	500	280
HE475-40	1000	380

*Dual circuit element.

Spare heater element cartridges are available for HE402-series and HE400-45 to -60 - details on request (serial number required).

Controller, MC227

Bimetallic, non-linear controller for controlling up to 1200W load, maximum current 5A. With arbitrary scaled controls and an amber neon on the output circuit. Supplied with flying leads for input and output connection. The case has a wing screw fitting for mounting the controller on a 12.7mm diameter retort/scaffolding rod. Overall 240 x 140 x 90mm W x D x H. For 200-250V 50/60Hz a.c. single phase supplies.

EE500-20 MC227



HE400

Heating

CM Series Multi-task Heating Mantles



Multi-task Models, Large Capacity, Controlled

Large capacity mantles with V-shaped heater cartridge for use with round-bottom or pear shaped flasks or 60° filter funnels, integral arbitrary scaled, solid state controller, 'power on' and 'heater on' indicator lamps and switchable multi-circuit heaters. Fitted with 3 retort rod clamps for rods up to 12.7mm diameter, equally spaced around case. For 230V 50/60Hz single phase supplies.

HE465-70 CMUV12/CL

HE465-75 CMUV22/CL

Cat. No.		HE465-70	HE465-75
Model	CMUV-	12/CL	22/CL
Flask capacity	litres	2 to 12	5 to 22
Funnel type		60°	60°
Outlet diameter	mm	78	78
Rating	W	500 + 500*	350 + 800*

*Dual circuit element.

Spare heater element cartridges are available for HE465-series - details on request (serial number required).

Electric Bunsen



Electric Bunsen, Electrothermal

A versatile source of radiant heat for heating test tubes, crucibles and small flasks, irrespective of their shape. Comprising corrosion resistant metal housing and a spiralled nickel chromium wire element within a refractory casing. A top cowl deflects heat away from the hand. The cowl is removable for heating crucibles and the unit can be held at the base by hand. Maximum power rating 400W. Element temperature 800 to 1000°C. Height 180mm. For 230-250V a.c. single phase supplies. Requires, but does not include, a controller.

HE760-10 'Bunsen' BA6101

EE500-20 In-line power controller for HE760-10

Heating Tapes

- ◆ Maximum temperature 450°C
- ◆ Must be used with a suitable controller and in dry conditions
- ◆ Unsuitable for use out of doors

Heating Tapes, HT9, Electrothermal

Earthed for additional safety. Surface loading 0.62W/cm². Can be used on metal surfaces. With tie cord fixing. Tape width 25mm. For 230V a.c. single phase supplies.

	Ref.	Length cm	Rating W
HE810-12	HT95502	60	100
HE810-18	HT95508	244	400



HE465



HE760



HE810 in use

Heating

Kjeldahl Heater Units



Macro Digestion/Distillation Units

With choice of two or six recesses and flask capacities as table. Recesses are at 150mm centres. Aluminium case with energy regulators and brackets to accept 12.5mm diameter support rods or the flask rest supplied. The 6-recess models have also clamps at either end of the case to accept 15.8mm diameter support rods. Maximum heater element temperature 800°C. For 230V a.c. single phase supplies.

	Recesses	Flask capacity ml	Total rating W	Dimensions W x D mm
KJ300-12	2	100 to 300	600	305 x 203
KJ300-16	2	500 to 800	1100	305 x 203
KJ305-16	6	500 to 800	3300	914 x 203

Spare heaters for KJ300-series - details on request.

Hot Air Blower

Hot Air Blower (Heat Gun), heavy duty

Suitable for a wide range of uses where localised rapid heating is required.

- ◆ Drying chromatography papers
- ◆ Sterilising
- ◆ Drying glassware
- ◆ Concentrating solutions

Ruggedly constructed, with rugged, industrial plastic housing and satin chrome nozzle and end baffle. A ceramic heating element ensures a long operational life. Can be hand-held or self-standing in an upright position. Includes safety thermostat and thermal fuse. Three heat/airflow settings are available: 50°C/200 litres per minute, 400°C/300 litres per minute and 600°C/500 litres per minute. Heater rating 1800W. Overall 260 x 90 x 205mm H x W x D. Weight 780g. For 230V 50Hz single phase supplies.

HE775-60 HL1820S

Impulse heat sealer for plastic film and laminates – see TS400.



KJ300



KJ305



HE775-60

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