

Cole-Parmer®

Cole-Parmer® Digi Mantles - SHM-250

- Same SHM-250 controller accommodates different capacity heating cartridges, i.e. interchangeable design
- Round bottom flask capacity of between 100mL to 1000mL
- Vented casing ensures the outer is safe to touch
- Greater stirring stability and speeds from 100 to 2000rpm
- Controller with display menus and touch pad interface
- Indicator lights for power, stirrer and heater operation
- Supplied with a support rod (NOTE clamps are not supplied)
- CE certification



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Digi Mantles - SHM-250

The Cole-Parmer® Digi-Mantles enable a round bottom flask of 100 to 250mL, 500mL or 1000mL capacity to be stirred and heated up to an element temperature of 450°C through precise electronic control, giving an accurate measure of temperature and stirring. The modular design allows heating cartridges of different sizes to be interchanged using the same SHM-250 digital controller as a base, which makes Digi-Mantles a very cost-effective option.

Heater cartridge

The heater cartridge ensures that the temperature is uniformly distributed across the round bottom flask. Even at an element temperature of up to 450°C, the outside of the heater cartridge remains “cool-to-the-touch” due to the air flow through ventilation slots beneath and around the rim of the case. The heater cartridge comes in 3 sizes for heating round bottom flasks of capacity 100 to 250mL (SHM-250D-250), 500 mL (SHM-250D-500) and 1000mL (SHM-250D-1000) capacity.

SHM-250 Digital controller

Used to control both temperature and stirring speed independently, the SHM-250 digital controller has a revolutionary CTC (Capacitance Touch Control) panel, which is both easy to read and use, and you can set the required temperature and stir speed by using the up/down arrows. The control panel has separate indicator lights for the power, heater and stirrer functions, along with a 3-digit display indicating the actual temperature from ambient to 450°C. Stirring speeds from 100 to 2000rpm are obtained by lightly touching the stirrer speed keys.

Temperature control

Heating is controlled by a modern state of the art microprocessor, which displays the heat setting as a percentage of the total power. An optional temperature probe may be used to gauge the temperature of the flask contents more accurately (up to 220°C); the temperature probe controls heating via the temperature feedback circuit and the actual temperature is displayed.

Improved stirring

The SHM-250 digital controller and motor arrangement has recently been upgraded to allow for accurate low speed stirring control and higher stirring speeds. Uniform stirring is provided via a motorised rotating magnet assembly positioned to provide maximum magnetic flux linkage to rotate the stirrer bars in each reaction vessel.



Technical Specification

Specification	SHM-250D-250	SHM-250D-500	SHM-250D-1000
Voltage	230V or 115V	230V or 115V	230V or 115V
Flask Capacity	100 - 250mL	500mL	1000mL
Max element temperature	450°C	450°C	450°C
Stir Speed Range	100 - 2000rpm	100 - 2000rpm	100 - 2000rpm
Case Material	Powder-coated Aluminium	Powder-coated Aluminium	Powder-coated Aluminium
Dimensions (d x w x h)	300 x 300 x 650mm	300 x 300 x 650mm	300 x 300 x 650mm
Shipping weight	3.1kg	3.1kg	3.1kg

Ordering Information

Description	Ordering Number	Series No.	Model No.	Legacy Sku.
Heating Mantle Digi Base	36204-13	SHM-250	-	OMCA
Heating Mantle Digi 250mL 230V	36204-15	SHM-250	SHM-250D-250	OMCA0250
Heating Mantle Digi 250mL 115V	36204-17	SHM-250	SHM-250D-250-115	OMCA0250X1
Heating Mantle Digi 500mL 230V	36204-19	SHM-250	SHM-250D-500	OMCA0500
Heating Mantle Digi 500mL 115V	36204-21	SHM-250	SHM-250D-500-115	OMCA0500X1
Heating Mantle Digi 1000mL 1L 230V	36204-23	SHM-250	SHM-250D-1000	OMCA1000
Heating Mantle Digi 1000mL 1L 115V	36204-25	SHM-250	SHM-250D-1000-115	OMCA1000X1

Accessories

Description	Ordering Number	Legacy Sku.
PT100 Temperature probe (5 pin)	36630-70	ATS10063
Replacement 100-250mL Digi-Mantle heater cartridge	36204-01	OM0250
Replacement 500mL Digi-Mantle heater cartridge	36204-05	OM0500
Replacement 1000mL Digi-Mantle heater cartridge	36204-09	OM1000



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

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.

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