

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 indicators 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.

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