

electric heating mantle for distillation and concentration

The appearance of the electric heating mantle is similar to a basket with heating function, which can wrap the bottom and side of the glass container to provide a stable heat source, mainly used for uniform and safe heating of samples in flasks, beakers and other containers.

Modern Electric Heating Mantle

The modern electric heating mantle is equipped with a digital temperature control system for precise and stable heating, making it indispensable for organic chemistry, biological experiments, and sample processing.

Main Features

1. **Digital Temperature Control:** High-precision sensors and digital display allow real-time monitoring and adjustment, with a wide temperature range up to 380 °C.
2. **Sturdy Shell:** Cold-rolled steel plate construction with anti-corrosion coating ensures durability in harsh chemical laboratory environments.



3. **High-Quality Heating Element:** Spiral-wound nickel-chromium alloy wire delivers rapid heating, high temperature performance, and long service life.
4. **High Precision Control:** Maintains temperature fluctuations within ± 2 °C, ideal for experiments requiring thermal stability.
5. **Continuous Operation:** Designed for long-term stable operation to meet extended heating needs.

Advantages

1. **High Safety:** No open flame reduces risk of explosion or fire; especially suited for heating flammable liquids.
2. **Uniform Heating:** Heat wraps around the container's bottom and sides, preventing local overheating and temperature gradients.
3. **Energy-Saving & Efficient:** Close contact between heating element and container ensures high thermal efficiency and rapid response, saving experiment time.
4. **Easy Operation:** Simple, intuitive digital interface for quick startup and adjustment by researchers.

Working Principle

The heating mantle uses resistance heating: the nickel-chromium alloy wire generates heat when energized, which is transferred to the flask or beaker via an insulating layer. A built-in thermocouple monitors temperature in real time, and the control system adjusts current output to maintain the set temperature. The system includes a heating body, insulation layer, thermostat, and shell, forming a closed-loop heating system.

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Model	MH250	MH500	MH1	MH2	MH3	MH5	MH10	MH20
Volume	250ml	500ml	1L	2L	3L	5L	10L	20L
Working method	continuously							
Temperature range	70°C to 380°C							
Heating element	nickel-chromium alloy wire, OCr27A17Mo2							
Temperature setting method	Button							

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Model	MH250	MH500	MH1	MH2	MH3	MH5	MH10	MH20
Temperature display	Digital							
Rated power	0.15kw	0.25kw	0.35kw	0.45kw	0.6kw	0.8kw	1.2kw	2.5kw
External dimensions	diameter 196x176mm		diameter 262x231mm	diameter 301x231mm	diameter 340x245mm	diameter 350x250mm	diameter 425x320mm	500x510x390mm
Power supply	220Vac, 50Hz, 0.7A	220Vac, 50Hz, 1.1A	220Vac, 50Hz, 1.6A	220Vac, 50Hz, 2.0A	220Vac, 50Hz, 2.7A	220Vac, 50Hz, 3.6A	220Vac, 50Hz, 5.5A	220Vac, 50Hz, 11.4A
Weight	2.5Kg	2.5Kg	5.5Kg	6.5Kg	7.5Kg	8.5Kg	9.8Kg	26.5Kg