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Product Name :

Digital Heating Mantles

Product Code :

SLE/LHM/03



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Description :

Digital Heating Mantles (Product Code: SLE/LHM/03) bring set-point temperature control to mantle heating of round bottom flasks. A PID microprocessor controller works from an external temperature probe to give precise regulation, while the flexible, insulated heating element anchored in glass fabric inside a rolled aluminium body warms the flask uniformly without substantially increasing the risk of glass shattering. The element can reach 350 °C, and the external probe, support rods and clamps are included. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a laboratory equipment supplier in India serving institutions at home and in international markets.

Specifications

Parameter	Detail
Type	Digital heating mantle
Body	Rolled aluminium
Heating element	Flexible, insulated, anchored securely in glass fabric
Temperature control	PID microprocessor controller with external temperature probe
Heating element temperature	Up to 350 °C
Suitable vessels	Round bottom glassware vessels such as flasks
Supplied with	External temperature probe, support rods and clamps

Typical Use

This mantle is chosen when a procedure calls for a defined temperature rather than just “more” or “less” heat — controlled reflux, gentle solvent removal, or distillation of mixtures that should not be overheated. With the probe placed in the liquid, the PID controller adjusts power continuously to hold the sample at the chosen value and keep overshoot small, something a simple energy regulator cannot do. Pharmacy college lab equipment lists and research groups often favour this kind of control for extractions and preparations where repeatability matters.

For best results, insert the probe through a side neck so its tip sits in the liquid without touching the glass, and mount the flask and condenser with the supplied support rods and clamps before switching on. Set a target a little below the boiling point for slow evaporation, or just above it for steady reflux. Let the mantle cool before moving the flask, and keep liquids away from the glass-fabric element.

Manufacturer

Behind the **ScienceLab** name is **Jain Scientific Equipments Private Limited**, an Ambala-based private limited company (CIN U29309HR2020PTC087597). Its mantles and other apparatus are manufactured at the company's licensed premises at 449, HSIIDC Industrial Area, Saha, Ambala, under Factory Licence AMB-ONLINE-CHD-J-414. Our company profile has further inform

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