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Product Name :

Heating Mantle

Product Code :

SLE/LHM/02



Science Lab

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Description :

Heating Mantle (Product Code: SLE/LHM/02) is a general-purpose mantle for heating flasks and other glassware evenly, without an open flame. The vessel rests directly on a flexible, insulated heating element anchored in glass fabric inside a rolled aluminium body, so it is warmeduniformly without substantially increasing the risk of the glass shattering. An energy regulatorcontrols output up to 350 °C, and the mantle is offered in sizes from 50 ml to 5000 ml. It is madeby **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a laboratory equipment manufacturer in India supplying schools, colleges and industry here and in international markets.

Specifications

Parameter	Detail
Type	Heating mantle with energy-regulator control
Body	Rolled aluminium
Heating element	Flexible, insulated, anchored securely in glass fabric
Maximum temperature	Up to 350 °C
Control	Energy regulator
Capacity options	50 ml, 100 ml, 250 ml, 500 ml, 1000 ml, 2000 ml, 3000 ml,5000 ml
Power rating options	60 W, 150 W, 200 W, 300 W, 450 W, 600 W
Suitable vessels	Glassware vessels such as flasks, placed directly on the heating element

Typical Use

Heating mantles are the usual heat source for simple and fractional distillation, reflux and solvent removal, especially where flammable liquids make a naked flame unwelcome. The flask nests in the glass-fabric element, which wraps heat around its lower surface rather than concentrating it at one hot spot, so the contents warm steadily and the glass is spared the thermal shock a direct flame can cause. The energy regulator sets how much power reaches the element; start low, watch the liquid, and increase in steps until the boil or reflux rate is where you want it.

Pick the mantle size that matches your flask so the glass sits in full contact with the element, never switch it on empty, and support the flask and any condenser independently with a stand and clamps. Wipe up spills only after the unit has cooled, keeping liquids out of the glass fabric. With eight capacities to choose from, a single model can cover everything from micro-scale work to large batches, which helps labs standardise their distillation apparatus in India and abroad.

Manufacturer

This mantle is produced by **Jain Scientific Equipments Private Limited**, whose trading name is **ScienceLab**. The company works from Ambala in Haryana, India, and describes its operations in the c

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