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Product Name :

Calorimeter, Electric

Product Code :

SLE/H/12



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Description :

Calorimeter, Electric (Product Code: SLE/H/12) is an electrically heated calorimeter for experiments in which a measured current warms a known quantity of water, so students can compare the electrical energy supplied with the heat the water gains. Its moulded cover carries a 1.5-ohm heating coil with standard binding posts, and the unit operates at 4 A from a 6-V lantern battery. Physics teachers in secondary schools, junior colleges and teacher-training labs use it for specific heat and electrical-energy practicals. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as part of its calorimeter lab equipment for schools in India and international markets.

Specifications

Parameter	Detail
Type	Electrically heated calorimeter with heating coil in the cover
Heating coil	1.5-ohm coil mounted in a moulded cover
Operating current	4 A
Power source	6-V lantern battery (not included)
Electrical connections	Standard binding posts on the cover
Coil protection	Supporting posts and coil coated to prevent electrolysis
Supplied with	Insulated stirrer, single-hole rubber stopper and instructions

Typical Use

In a standard practical, students pour a weighed amount of water into the calorimeter, fit the cover so the coil is immersed, and hold a thermometer in the single-hole rubber stopper. The binding posts are then wired to the 6-V lantern battery, the coil carries its 4 A working current, and the class stirs gently with the insulated stirrer while noting the temperature every half-minute or so. From the current, the coil resistance and the heating time they calculate the electrical energy delivered and set it against the heat absorbed by the water, which opens a discussion of heat losses and specific heat capacity.

The coating on the coil and its supporting posts prevents electrolysis while they sit in water, so the measured temperature rise comes from resistive heating rather than chemical side reactions. Practical tips: switch off between runs so the battery is not drained, keep stirring at an even pace for uniform water temperature, and dry the vessel and cover after the lesson. It is a compact addition to school physics lab equipment in India and elsewhere wherever heat and electricity are taught together.

Manufacturer

Calorimeter, Electric is produced by **Jain Scientific Equipments Private Limited**, the company behind the **ScienceLab** brand, from its base in Ambala, Haryana. For institutional buyers who need
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