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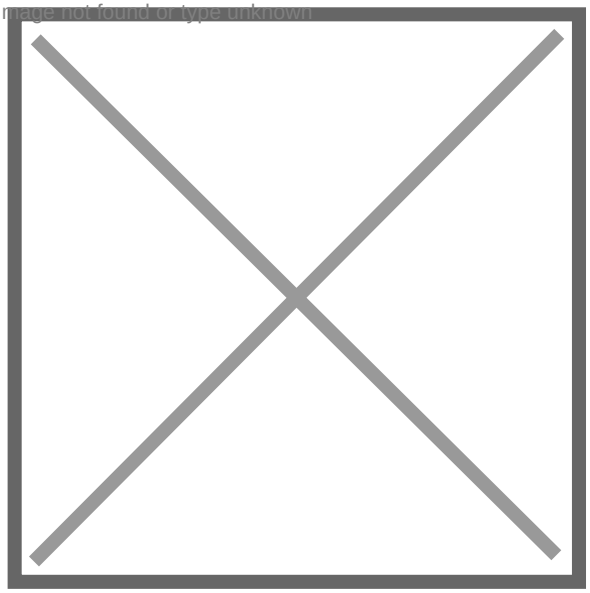
Product Name :

Calorimetry

Product Code :

SCL-373/014

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Description :

Calorimetry (Product Code: SCL-373/014) is an electrical calorimetry experiment set used to determine the specific heat capacity of water and compare it with the table value, in senior school and college physics labs. Water is heated electrically while voltage, current, time and temperature are logged on the digital voltmeter and ammeter, a digital stopwatch and two thermometers. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer and laboratory equipment supplier in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Experiment goal	Determine the specific heat capacity of water experimentally and compare it with the table value
Mercury thermometer	-10 to 110 °C
Digital thermometer	Included
Digital voltmeter	19.99 V DC
Digital ammeter	19.99 A DC
Power supply	1.5 to 12 V AC/DC, 3 A
Rheostat	10 ?, 3.3 A
Electric heater	Listed as 6–50 W (please confirm the rating with us)
Timing	Digital stopwatch
Connecting wires	Four pairs in red and four pairs in black, 4 mm, 50 cm long
Full packing list	Available on request — ask us before ordering
Product code	SCL-373/014
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Calorimetry Set Used For?

The experiment rests on a simple energy balance. The heater, powered from the 1.5–12 V supply, delivers electrical energy equal to voltage × current × time, and the water absorbs it as heat equal to mass × specific heat capacity × temperature rise. Students set a steady current with the 10 ? rheostat, read V and I on the digital meters, time the heating with the stopwatch and note the temperature rise, then solve for the specific heat capacity and compare their answer with the table value.

Weigh the water before heating, stir gently throughout so the temperature stays uniform, and take readings at regular intervals rather than relying on a single end point. The gap between the meas e the merc ital therm its in Ind