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Product Name :

Computerized Boiling Heat Transfer Apparatus

Product Code :

SLE/MCE/70



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Description :

Computerized Boiling Heat Transfer Apparatus (Product Code: SLE/MCE/70) is a bench unit used to observe and measure boiling heat transfer on a heated surface in engineering heat transfer laboratories. Colleges choose this engineering educational equipment in India becauseits transparent process tank shows evaporation on a heated cylinder that models a fire tube, while sensor data can be sent to a PC via USB. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM engineering lab equipment manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Process tank	Transparent, for clear observation of evaporation at the heated cylinder; tank 10 L
Heated cylinder	Model of a fire tube heated from the inside
Heater power	250 W, continuously adjustable
Heater surface area	0.001875 m²
Diameter	80 mm
Surface area	0.0578 m²
Cooler	Copper coil; integrated water-cooled condenser for a continuous boiling process
Working liquid	Special liquid that evaporates at low temperatures
Safety valve	Opens at 2.2 bar
Measuring range – pressure	0–4 bar absolute
Measuring range – flow rate	0.05–1.8 L/min
Measuring range – temperature (thermocouple)	0–200 °C
Display and data	Digital displays; values can be transmitted directly to a PC via USB
Power supply	230 V, 50/60 Hz, 1 phase or 120 V, 60 Hz, 1 phase
Dimensions	900 × 450 × 820 mm (approx.)
Weight	60 kg (approx.)
Product code	SLE/MCE/70
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

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