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Product Name :

Computerized Cooling Tower Test Bench

Product Code :

SLE/MCE/83



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Description :

Computerized Cooling Tower Test Bench (Product Code: SLE/MCE/83) is a fan-driven cooling tower model used to study the evaporative cooling of water by air in thermal and chemical engineering laboratories. Colleges add this engineering lab equipment because its 150 × 150 mm cooling column holds a wet deck with a specific surface of 110 m²/m³, and a three-stage heater (500, 1000 or 1500 W) sets the heat load. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Cooling column cross-section	150 × 150 mm
Wet deck specific surface	110 m²/m³
Airflow measurement	Volumetric airflow via orifice, Ø 80 mm
Heater	Adjustable in three stages: 500 W, 1000 W, 1500 W
Thermostat	Switches off at 50 °C
Fan	Power consumption 250 W; max. pressure difference 430 Pa; max. volumetric flow rate 13 m³/min
Pump	Max. head 70 m; max. flow rate 100 L/h
Tank for additional water	4.2 L
Measuring range – differential pressure (air)	0–1000 Pa
Measuring range – flow rate (water)	12–360 L/h
Measuring range – temperature	2 × 0–50 °C and 3 × 0–100 °C
Measuring range – relative humidity	10–100%
Dimensions	1200 × 600 × 1600 mm
Weight	Approx. 125 kg
Power supply options	230 V, 50 Hz, 1 phase or 230 V, 60 Hz, 1 phase
Product code	SLE/MCE/83
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Cooling Tower Test Bench Used For?

Warm water from the heated circuit is pumped to the column and spreads over the wet deck while air fro ing water e, stude d