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Product Name :
Computerized Cooling Tower Test Bench

Product Code :
SCHOOL-REF870008



Description :

Computerized Cooling Tower Test Bench

Technical Specification :

FEATURES:

Thermodynamic principles of the wet cooling tower

Changes of state of the air in the h-x diagram

Determination of the cooling capacity

Energy balances

Calculation of process parameters, such as maximum cooling distance, cooling zone width etc.

SPECIFICATION:

Cooling column :

Specific surface of the wet deck surface: 110m²/m³

Cross-section: 150x150mm

Volumetric airflow measurement via orifice: Ø 80mm

Heater, adjustable in three stages :

500W

1000W

1500W

Thermostat: switches off at 50°C

Fan :

Power consumption: 250W

Max. Pressure difference: 430Pa

Max. Volumetric flow rate: 13m³/min

Pump :

Max. Head: 70m

Max. Flow rate: 100L/h

Tank for additional water: 4,2L

Measuring ranges :

Differential pressure: 0...1000Pa (air)

Flow rate: 12...360L/h (water)

Temperature: 2x 0...50°C, 3x 0...100°C

Rel. humidity: 10...100%

Required for operation :

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase

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