

EXPERIMENTAL COOLING TOWER

MODEL: RAC23



FEATURES

- Compact, comprehensive, sturdy design
- Smooth and silent operation

DESCRIPTION

The system is designed for students-to conduct experiments and study the water Cooling Tower.

The set up consists of a mechanical draught type tower. The column is packed with perforated corrugated sheets. It is provided with a blower of appropriate capacity. Flow meter is used to measure water flow rate and calibrated water collecting tank is used to measure volume of water. Facility to measure water inlet and outlet temperatures is provided. Electrical heater is used to change water temperature load. Wet and dry bulb thermometers are also used to record temperatures and humidity.

INSTRUCTION MANUAL

Self-explanatory operating manuals are provided with each system. Detailed theory as well as practical exercises is also included in the manual

LIST OF EXPERIMENT

1. Study the typical cooling tower
2. Determination of cooling tower capacity
3. Study the heat and mass transfer at the wetted surface

COMPONENTS

1. Tower packed with corrugated packing
2. Air blower
3. Rotameter for measurement of water flow rate
4. Inclined tube to measure pressure drop
5. Arrangement to measure humidity
6. Heater
7. Temperature measurement arrangement

OPTIONAL ADDITIONAL

1. PC Operation
2. Digital water flow rate
3. Digital humidity indicator
4. Digital air temperature indicator
5. On-off temperature controller for water temperature control

SERVICES REQUIRED

1. Water supply and drainage arrangement
2. Electric supply

Note: Chemicals and analytical instruments will be provided by institute for commissioning and demonstration.

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(1) Since research and development is an on-going activity, the specifications mentioned herein are subject to change without notice
(2) Photographs are indicative only