

Product Name :
Experimental Water Cooling Tower**Product Code :**
ALABS-A153-004**Description :****Experimental Water Cooling Tower**

The set-up is designed to demonstrate and study of heat & mass transfer during the process in a forced draft counter flow type water cooling tower. The set up consists of specially designed; SS vertical tower packed with aluminium mesh packing, fitted with front side acrylic window to provide actual visualization of cooling tower operation. The air from a blower enters at lower end of tower and after passing through the mesh packing leave the column from top outlet to atmosphere. Counter – currently hot water from water bath is evenly distributed over the packing by nozzles at top of the tower using circulation pump.

An arrangement is made to vary and measure the airflow rate & temperatures at different locations in the tower. The hot water bath is provided with level gauge enables to show the exact evaporation loss. The temperature of water in bath can be independently varied to simulate different conditions using digital temp

Experiment :

- Actual visualization of the cooling tower operation
- To find out mass transfer coefficient, plot pressure drop per unit height with airflow rate

Feature :

- Superb Painted structure
- Simple to operate & maintain
- Compact & stand alone set up

Utilities Required :

- Water Supply & Drain
- Electricity Supply: 1Phase, 220 V AC, 0.5 kW
- Instruments, Laboratory Glassware and Chemicals required for analysis as per the system adopted



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