

SHM-03 FORCED DRAUGHT COOLING TOWER



RANGE OF EXPERIMENTS TO BE CARRIED OUT:

1. To determine Volumetric mass transfer coefficient ($hD.a$) for air, water system in a cooling tower.
2. To study the temperature distribution along the height of the tower.
3. The experiments can be conducted at various flow rates of Air & Water & calculation can be made accordingly.
4. Experiment can be conduct on both Induced & Forced Draught condition.
5. To determine & compare the efficiency of the tower from Induced & Forced Draught condition.

TECHNICAL DESCRIPTION :

In a present cooling tower , packed tower is provided, water is sprayed/dropped at the top & it drips/falls down from to fin to the bottom fin. packings provide maximum surface area to cool the water. Temperature at inlet & outlet can be measured with the help of sensors & digital temperature indicator. Flow Rate of water measured by using rotameter. Flow rate of air measured by using by manometer

DIMENSIONS AND WEIGHT :

Size :1.5 m.(L)x 1m(W) X 2m (H)

Weight :Approx. 120 Kg

SERVICE REQUIRED :

440 v Ac Supply 50 Hz

SCOPE OF DELIVERY:

1. Experimental Setup
2. Instructional Manual

OPTIONAL FACILITY: Data logging Facility