

Solar Thermal Lab

Solar Thermal lab provides an end to end learning and training in the field of Solar Thermal. Solar Thermal Lab consists of three products which together covers the entire concepts of Solar Thermal usage and Installation.

Solar Thermal Training System (STTS)

STTS is a mini Solar Flat Plate Collector based water heating system designed in a form of experimental set up to help users learn and experience different parameters of performance of Flat Plate Collector System.

Design

- Modular Design

Usability

- Can be used indoors as well as outdoors

Specifications

- Artificial Irradiation source, Flat plate Collector with Storage tank Hot Water Tank and Auxiliary tank, Measurement Panel





Features

- Artificial source of irradiation.
- Control of irradiation level as per requirement
- Artificial Source of Wind speed with provision to set wind speed as per requirement
- Inbuilt facility analogous to rooftop and hot water tank compatible to perform experiment both outdoor and indoor environment.
- Provision to perform experiment in both Thermosyphonic and forced mode of operation.
- Evaluation of different parameters (UL,FR and efficiency) in both Thermosyphonic and forced mode of operation.
- Provision to change incident angle of irradiation.
- Provision to change tilt angle.
- An active measurement panel to measure inlet temperature, outlet temperature, plate temperature, flow of water and wind speed