

**Features :**

The Didactic Test Bench For Solar Water Heaters is designed for the production of domestic hot water enabling the learner to study:

- The laboratory training system should be designed to be used as a teaching facility for practical laboratory tests.
- The training system should consists of:
 - Laboratory unit mounted on a platform;
 - Solar collector mounted on a platform;
 - Storage water heated mounted on a platform.
- The solar collector devices must be mounted on the laboratory unit.
- The elements of the system are fixed on an aluminium profile frame (mobile mounting platform).
- The following equipment should be installed on the mobile platform:
 - Pumping unit;
 - Pipeline accessories;
 - expansion tank;
 - water meters;
 - pulse flow meters;
 - temperature-sensing points (Pt500).
- The panels of: thermal energy flow meters (heat meters), thermometers with remote sensors,
- Solar energy unit digital controller should be mounted at the front of the frame.
- The measuring system must include digital thermometers with 4 remote sensors,

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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digital and analog flow meters and water meters (4), 2 heat meters,

- 4 mounted water temperature-sensing points (Pt500), 3 multifunction meters of electric power parameters.
- The laboratory system should be completely ready for operation, it's possible to connect external heating devices and additional modules.
- The laboratory system set should also include the following software and methodological support and technical documentation for teaching staff.

Experiments to be provided:

1. The study of the solar power unit;
2. Solar collectors. General characteristics;
3. Mounting and working with the equipment;
4. The study of the solar collector operation;
5. Solar power unit controller.

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