

GENERAL EXPLANATION

This training set consists of flat panel, single serpentine boiler, control panel and measurement systems.

EXPERIMENTS

1. Installation and operation of the solar panel system
2. Finding momentary thermal forces in plane panels
3. Flat panel efficiency in different positions
4. Performing differential temperature control
5. Finding the flat panel thermal power change due to temperature
6. Transition of solar energy to heat energy
7. Measuring the effect of the circulation pump on the plane panel to the heating capacity

OPTIONAL FEATURES

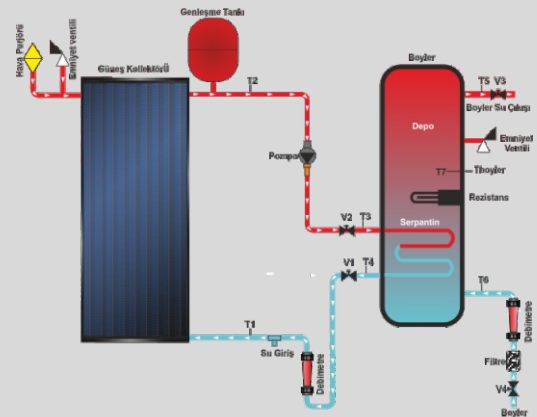
- Touch LCD Display
- USB Computer Connection
- Computer Control

PACKAGE INCLUDED

Device, device cover, 1 printed experiment report, circuit diagram and product catalog

TECHNICAL SPECIFICATION

Solar collecting hot water systems consist of flat collectors collecting solar energy, storage tank for heated water, insulated pipes providing connection between these two parts, pump and controller. The flat solar collectors consist of a top cover made from glass, a top cover made from glass, enough space between the glass and the absorbent plate, absorbent plate which is the most important part of the collector, rear and side insulation. Since panel angles can be changed, panel efficiencies in different locations are can compared.



TECHNICAL DETAILS

- Single serpentine boiler
- Plane collecting copper selective panel
- 3-stage circulation pump
- Closed expansion tank
- Rotameter type flow meter
- Thermostated resistance