

Product Name :
Solar Heat And Solar Photovoltaic Trainer**Product Code :**
ALABS-A210-003ALTEC™**Description :****Solar Heat And Solar Photovoltaic Trainer**

Solar Heat and Solar Photovoltaic Trainer is a fully mobile solar heat solar photovoltaic control system trainer which lets the student technician examine the hot water and electrical layouts and operational features normally associated with a solar heating system and photovoltaic power source

Description

The Solar System Trainer combines solar photovoltaic and solar hot water. The trainer can work as a self contained unit using energy from the sun to produce electricity and hot water. Electricity is created when the sun's rays are collected by a solar photovoltaic panel. A charge controller controls the charging of a 12V DC battery. A 375W inverter changes the 12V DC to 120V AC. The solar hot water heater has a collector water pump and a domestic water pump. When a temperature differential between the collector loop and the domestic loop, which is set by the dial in the differential controller, is reached the collector water pump turns on. The collector loop water

transfers the heat to the domestic loop water in the heat exchanger. As the domestic loop water heats up the collector loop water cools down until the collector water pump turns off. The domestic water pump continues running. The collector loop heats up again as long as the unit is in the sun. When it reaches the differential the cycle is repeated.



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