



Alternative & Renewable Energy

SOLAR THERMAL ENERGY TRAINING SYSTEM

MODEL 46121 (PRELIMINARY)



System shown back and front.

GENERAL DESCRIPTION

The Lab-Volt 46121 Solar Thermal Energy Training System is a solar hot water heating system. The trainer includes a solar collector, circulation pumps, storage tank, heat exchanger, air separator, air handler, solar heating coil, automatic air vent, thermostat, and controller system with sensors. Students will be able to install system components, observe pressures, tem-

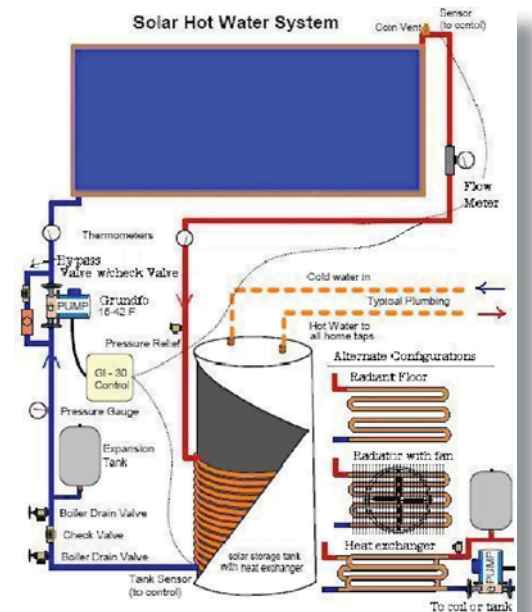
peratures and flow rates. Students will setup various realistic operating environments such as radiant floor heating, passive and active solar water heating, space heating system, and hot water heat exchanger.

SOLAR/THERMAL ENERGY TRAINING SYSTEM (PRELIM) MODEL 46121



TABLE OF CONTENTS OF STUDENT MANUAL

- Introduction to Domestic Solar Hot Water
- Solar Collectors
- Hot Water Storage and Installation Bases
- Preparing to Install a Solar Hot Water System
- Fitting of Solar Collectors
- Regulations Covering Unvented Hot Water System
- Unvented Hot Water Systems
- Plumbing Layout
- Control and Power Requirements
- System Commissioning
- Applications



Reflecting Lab-Volt's commitment to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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