Digital Instruction Modules

Educational Training Equipment for the 21st Century

Bulletin 193-114-1D

H-DACH-CSI

Absorption Chiller/Heater Simulator

Purpose

The Hampden **Model H-DACH-CSI** Absorption Chiller/Heater Simulator demonstrates the principles of operation, controls, safety and interlocking controls and troubleshooting using Aqueous Lithium bromide as the absorbent.

The Hampden Computer Simulated Instruction Modules are designed to demonstrate the principles of operation and troubleshooting of various types of systems. These "modules" provide a complete aid for the teacher who desires to teach appliance analysis and troubleshooting.

Description

Each module's front panel displays both a complete schematic and pictorial of the system. All functions operate as on the actual equipment and present the student with realistic problem situations that would be very difficult for the instructor to create. Both mechanical and electrical problems are simulated. Pushbuttons are used to "replace" suspected defective parts. Simulator includes H-LTCS Laptop Computer.

Standard Features

- Schematic and pictorial test points
- Specification chart
- Improper equipment use warning
- Component isolate switch
- Line cord disconnect/connect switch
- Malfunction indication
- Windows Digital control system

Additional Features

- Low temperature cut-out
- High pressure relief
- Chilled water flow switch
- Cooling water flow switch
- Monitoring of burner and generator
- Temperature and pressure monitoring
  - First-stage generator
  - Second stage generator
  - Evaporator and Condenser
  - High and Lo temperature heat exchanger
  - Absorber
- Microprocessor based control panel

Typical Malfunctions

- Crystallization
- Air leaks
- Low cooling water temperature
- Electric power interruption

Options

MODEL H-CSI-CS
Pentium™ Desktop Computer System

MODEL H-CAI-PO
Printer to provide the instructor with a color hard copy of the students' progress.

All Hampden units are available for operation at any voltage or frequency

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