

Refrigeration Training Systems

Educational Training Equipment for the 21st Century

Bulletin 239J

H-RST-2 Mobile Refrigeration System Trainer



MODEL H-RST-2 with -Meters
Dimensions: 76"H x 51"W x 31"D
Shipping Weight: 500 lbs

Options

H-RST-2-CDL Mobile Refrigeration System Trainer with Computer Data Logging Package

H-RST-MP Instrument Package

H-RST-FP-10E Electrical Fault Package

Options must be specified at time of original order.

Purpose

The Hampden **Model H-RST-2** was designed to provide students with an actual working model of a refrigeration system, complete in every detail.

Description

The Hampden **Model H-RST-2** Mobile Refrigeration System Trainer helps students to develop a thorough understanding of the refrigeration cycle. It can operate in five different modes, allowing testing & troubleshooting experience for various types of refrigeration systems. By opening and closing the appropriate valves and switches, a student may operate the trainer as one of the following refrigeration systems:

1. Direct expansion system, controlled manually by the hand expansion valve.
2. Direct expansion system, controlled automatically by the thermostatic expansion valve (TEV).
3. Direct expansion system, controlled automatically by the capillary tube.
4. Reverse cycle (heat pump) Direct Expansion System, controlled by the capillary tube.
5. Flooded evaporator system, controlled by the low pressure float.

The trainer provides measurements of pressure, vacuum, flow rate and temperature. Its unique clear glass design gives dramatic illustration to the complete refrigeration cycle—students can observe the changing refrigerant states—from liquid to gas in the evaporator and from gas to liquid in the condenser.

The unit is furnished complete with operating instructions, experiment and teacher's manuals. It is completely piped, wired, and charged, ready for use. Power input is standard 120 – 220V AC 1 ϕ 50 – 60Hz through a grounding-type power cord. All components are mounted and clearly identified on a steel panel, housed within an A-frame stand. Refrigerant is R-123 (other refrigerants available) which permits operation at low pressure. Should recharging become necessary, a convenient charging port is supplied.

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

Hampden
ENGINEERING CORPORATION