

# Refrigeration Training Systems

Educational Training Equipment for the 21st Century

Bulletin 239L

## H-RST-2 Mobile Refrigeration System Trainer

### 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 120V AC 1Ø 60Hz through a grounding-type power cord. All components are mounted and clearly identified on a steel panel, mounted on a mobile frame. Refrigerant is R-123 which permits operation at low pressure. Should recharging become necessary, a convenient charging port is supplied.



**MODEL H-RST-2** shown with **H-RST-DMP** Digital Meter Package, and **H-RST-FP-10E** Electrical Fault Package Options (Shown with **H-RST-DMB** Option)  
Dimensions: 76"H x 51"W x 31"D  
Shipping Weight: 575 lbs

### Options

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

**H-RST-DMP** Digital Meter Package

**H-RST-FP-10E** Electrical Fault Package

**H-RST-TP** Test Points Package

**H-RST-DMB** Digital Manifold with Bluetooth

*Options must be specified at time of original order.*

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

**Hampden**  
ENGINEERING CORPORATION

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