

Refrigeration Training Systems

Educational Training Equipment for the 21st Century

Bulletin 239-106-1C

H-RST-10 Refrigeration Trainer

Purpose

The Hampden **Model H-RST-10** Refrigeration Trainer is a commercial refrigeration component completely plumbed and wired for student operation. This unit consists of refrigeration components rated for a one ton (12000 BTU) system.

Specifications

Mobile Frame:

- 2" square mechanical steel tube finished in instrument tan texture
- Enclosure shall be 14-gauge furniture stock steel finished in instrument tan texture
- Panel shall be 11-gauge furniture stock steel finished in instrument white enamel
- Four swivel casters, two with locks

Compressor:

- 1-HP Open Compressor
- 1-HP Squirrel Cage Induction Motor, trunion mounted

Condenser:

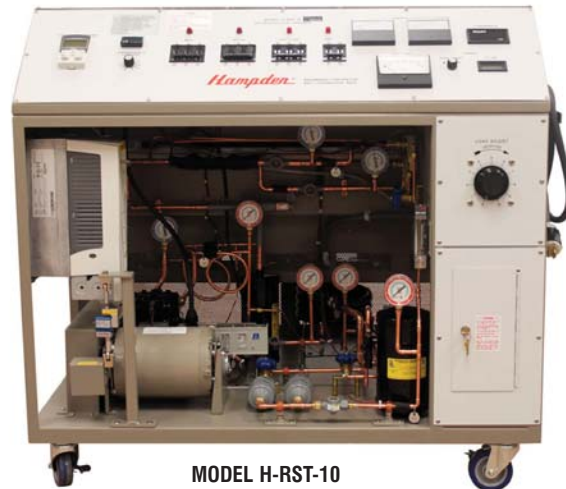
- Water cooled

Evaporator:

- 12000 BTU with high wall air handler and tangential fan with PSC type motor. Constructed of seamless copper tubing with enhanced aluminum fins.
- Clear Lexan® Cold Box.

Refrigeration Components:

- Filter-Drier
- Suction Accumulator
- Liquid Receiver
- Sight Glass with moisture indicator
- Sight Glass, (4 places)
- Pressure Gauge, (4 places)
- Compound Gauge (3 places)
- EPR Valve
- Pressure Operated Water Valve
- Dual Pressure Control



MODEL H-RST-10
(Shown with H-RST-DMB Option)
Dimensions: 46"H x 46"W x 34"D
Shipping Weight: 800 lbs.



Flowmeter:

- Refrigerant
- Water

Variable Frequency Drive:

- Motor RPM

Metering Device:

- TEV

Heat Load:

- 2000 Watts, variable

Other Components:

- Ball Valves (3 required)
- Hand Valves (3 required)
- Pilot Lights (4 places)
- Circuit Breakers
 - Main
 - Motor
 - Heat Load
 - Fan
- Relay with base
- Torque Load Cell with signal conditioning board
- Transformer

Thermocouples:

- Type T (11 required)

Refrigerant:

- R-134a

Instruments:

- Analog Wattmeter - Heat Load 0-2000 Watts
- Digital Temperature Indicator
- Temperature Selector Switch
- Analog Voltmeter - Compressor Volts 0-300
- Analog Ammeter - Compressor Amps 0-15
- Digital Torque Indicator
- Digital Tachometer - (compressor)

Fault Program:

- Selectable Electrical Faults (10)
- Mechanical Faults (2)
 - Filter Dryer (Clogged)
 - TEV (with Clogged Filter)

Nomenclature:

- Black Enamel

Course Ware:

- Operator's Instruction Manual
- Fault Guide
- Pressure Enthalpy Chart - R-134a

Voltage:

- 208 VAC 3Ø 60Hz
- 380 or 415 VAC 3Ø 50Hz available



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

Hampden
ENGINEERING CORPORATION