

# Commercial Refrigeration Trainer

Educational Training Equipment for the 21st Century

Bulletin 238-3F

## H-CRT-4B

### Commercial Multi-Compressor Rack Refrigeration System Trainer with Emerson Controls and with Electrical Fault Package

#### Purpose

The Hampden **Model H-CRT-4B** Commercial Multi-Compressor Rack Refrigeration System Trainer with Emerson Controls was designed to provide students with a thorough understanding of the refrigeration cycle, including measurement of pressure, vacuum, flow rate, and temperature.

#### Description

The system components are panel mounted to provide easy access for testing and troubleshooting. The Hampden **Model H-CRT-4B** is supplied with an integral Fault Package, comprised of preset electrical faults mounted in a locking box on the side of the trainer.

#### Specifications

The Hampden **Model H-CRT-4B** Commercial Multi-Compressor Rack Refrigeration System Trainer with Emerson Controls consists of the following:

- Scroll Compressors (3)
- Evaporators (2), w/ Temperature Sensors
- T.E.V. Valves (2)
- Air-cooled Condenser
- Oil Separator
- Oil Filter
- Oil Reservoir with (2) sight glasses
- Oil Level Solenoid, (3)
- Oil Differential Check Valve
- Liquid Receiver
- Cartridge Type Filter-Drier
- Take apart suction line for Filter-Drier Cartridge
- Sight Glass
- Suction Accumulator
- Suction Shell
- Pressure Transducer, (1) high and (1) low
- Suction Pressure Gauge
- Discharge Pressure Gauge
- High / Low Pressure Switch (3)
- Head Pressure Control Valve



**MODEL H-CRT-4B** Commercial Multi-Compressor Rack Refrigeration System Trainer with Emerson Controls and with Electrical Fault Package

(Shown with **H-RST-DMB** Option)

Dimensions: 75.25"H x 104"W x 31.25"D

Shipping Weight: 1,600 lbs.

- Controller
- O/I Board Box
- Load Center
- Lexan® Enclosed Cold Box
- Heat Load Shutters (4)
- Electrical Fault Package
- Factory-charged with R-404A HFC refrigerant

#### Option

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

**Power Required:** 220V.AC 1Ø 60Hz



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

**Hampden**  
ENGINEERING CORPORATION

# Commercial Refrigeration Trainer

Educational Training Equipment for the 21st Century

Bulletin 238-4A

## H-CRT-4C

### Commercial Multi-Compressor Rack Refrigeration System Trainer with Danfoss Controls and with Electrical Fault Package

#### Purpose

The Hampden **Model H-CRT-4C** Commercial Multi-Compressor Rack Refrigeration System Trainer with Danfoss Controls was designed to provide students with a thorough understanding of the refrigeration cycle, including measurement of pressure, vacuum, flow rate, and temperature.

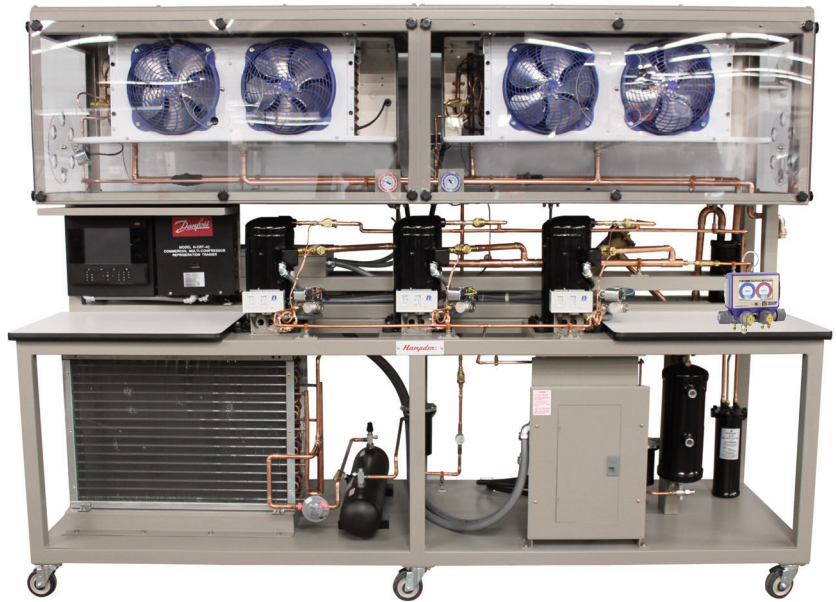
#### Description

The system components are panel mounted to provide easy access for testing and troubleshooting. The Hampden **Model H-CRT-4C** is supplied with an integral Fault Package, comprised of preset electrical faults mounted in a locking box on the side of the trainer.

#### Specifications

The Hampden **Model H-CRT-4C** Commercial Multi-Compressor Rack Refrigeration System Trainer with Danfoss Controls consists of the following:

- Scroll Compressors (3)
- Evaporators (2), w/ Temperature Sensors
- T.E.V. Valves (2)
- Air-cooled Condenser
- Oil Separator
- Oil Filter
- Oil Reservoir with (2) sight glasses
- Oil Level Solenoid, (3)
- Oil Differential Check Valve
- Liquid Receiver
- Cartridge Type Filter-Drier
- Take apart suction line for Filter-Drier Cartridge
- Sight Glass
- Suction Accumulator
- Suction Shell
- Pressure Transducer, (1) high and (1) low
- Suction Pressure Gauge
- Discharge Pressure Gauge
- High / Low Pressure Switch (3)
- Head Pressure Control Valve
- Controller



**MODEL H-CRT-4C** Commercial Multi-Compressor Rack Refrigeration System Trainer with Danfoss Controls and with Electrical Fault Package (Shown with **H-RST-DMB** Option)

Dimensions: 75.25"H x 104"W x 31.25"D

Shipping Weight: 1,600 lbs.

- O/I Board Box
- Load Center
- Lexan® Enclosed Cold Box
- Heat Load Shutters (4)
- Electrical Fault Package
- Factory-charged with R-404A HFC refrigerant

#### Option

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

**Power Required:** 220V.AC 1Ø 60Hz

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

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