

# Commercial Refrigeration Trainer

Educational Training Equipment for the 21st Century

Bulletin 238-6C

## H-CRT-6

### Commercial High Pressure CO<sub>2</sub> Refrigeration System Trainer

#### Purpose

The Hampden **Model H-CRT-6** Commercial High Pressure CO<sub>2</sub> Refrigeration System Trainer was designed to provide students with a thorough understanding of the refrigeration cycle, including measurement of pressure, vacuum, flow rate, and temperature, using R-744.

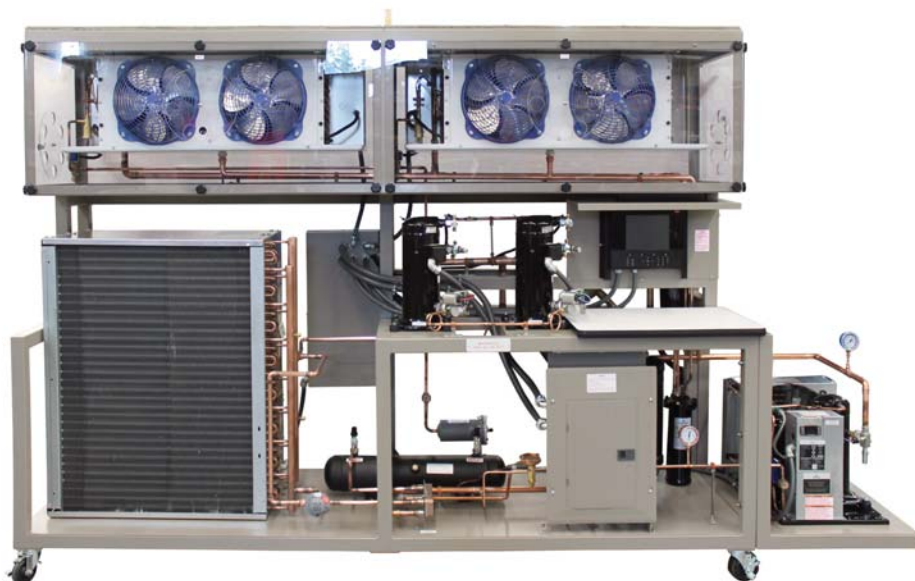
#### Description

The system components are panel mounted to provide easy access for testing and troubleshooting. When specified, the Hampden **Model H-CRT-6** 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-6** Commercial High Pressure CO<sub>2</sub> Refrigeration System Trainer consists of the following:

- R-744 Refrigerant
- Scroll Compressors (2)
- Evaporators (2), w/ Temperature Sensors
- T.E.V. Valves (3); EL (2), Therm (1)
- 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, (2) high and (2) low
- Suction Pressure Gauge
- Discharge Pressure Gauge
- Control Transducers (2)
- Head Pressure Control Valve



**MODEL H-CRT-6** Commercial High Pressure CO<sub>2</sub> Refrigeration System Trainer

- Controller
- O/I Board Box
- Load Center
- Lexan® Enclosed Cold Box
- Heat Load Shutters (4)

#### Option

**H-CRT-6-LD** Carbon Dioxide Gas Leak Detector

**H-CRT-6-M** CO<sub>2</sub> Test and Charging Manifold

**Power Required:** 220V.AC 3Ø 60Hz

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

070120

**Hampden®**  
ENGINEERING CORPORATION