

# Refrigeration-Compressor Trainers

Educational Training Equipment for the 21st Century

Bulletin 228-1K



**MODEL H-FRD-1A**

Dimensions: 36"H x 36"W x 13"D  
Shipping Weight: 272 lbs

## H-FRD-1A Fundamental Refrigeration Demonstrator

The Hampden **Model H-FRD-1A** Fundamental Refrigeration Demonstrator provides students with the opportunity to observe the operation of a domestic refrigerator refrigeration system. It is a complete, ready to-operate refrigeration system. The refrigeration cycle is silkscreened on the upright panel for easy identification of components and functions. The temperature control adjustment governs the on and off compressor cycles in accordance with the cold box heat load. Power required: 120V AC 1Ø 60Hz.

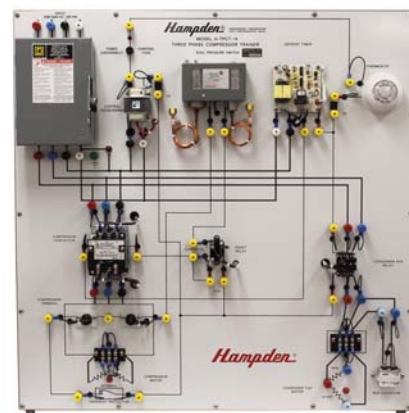
The **Model H-FRD-1A** is charged with a non-CFC refrigerant.

**Option: Model HMC-3 Mobile Cart**

## H-TPCT-1A Three-Phase Compressor Controls Trainer

The Hampden **Model H-TPCT-1A** Three-Phase Compressor Controls Trainer provides students with the ability to operate, test, and troubleshoot the electrical controls of a three-phase commercial single-package air conditioner. It contains the actual components found in commercial units with the exceptions of the compressor motor and fan motor, which are simulated. All components function exactly as they would on the job. The instructor has the ability to insert up to twenty five faults via toggle switches on the side of the trainer. Students never apply power externally to any of the test points. When the trainer is energized, realistic voltages appear across the actual and simulated devices. When de-energized, all components and devices may easily be isolated for resistance and continuity tests. Power required: 120V AC 1Ø 60Hz. Three-phase power to operate the trainer is obtained from a 1-phase to 3-phase converter.

**Option: Model HMC-3 Mobile Cart**



**Model H-TPCT-1A**

Dimensions: 36"H x 36"W x 13"D  
Shipping Weight: 254 lbs



**MODEL H-CPT-1A**

Dimensions: 36"H x 36"W x 13"D  
Shipping Weight: 260 lbs

## H-CPT-1A Single-Phase Compressor Trainer

The Hampden **Model H-CPT-1A** Single-Phase Compressor Trainer provides students with the opportunity to connect a single-phase compressor in various wiring configurations and varying suction and discharge pressures to produce realistic operating conditions. It contains a 1/6 HP hermetically-sealed compressor similar to those used in small domestic refrigerators, dehumidifiers, water coolers, etc. Pressure-sensitive connections are made from the suction and discharge lines to gauges and to low and high pressure cut-outs. Students interconnect the compressor with the various control devices, including starting and running capacitors, potential and current relays, cutout switches, thermostat, and an overload switch. Hand valves permit the regulation of pressures for realistic operation. Furnished complete with cords. Power required: 120V AC 1Ø 60Hz.

**Option: Model HMC-3 Mobile Cart**

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



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