

Environmental Systems Trainer

Educational Training Equipment for the 21st Century

Bulletin 234P



H-DSCT-1A Dual Speed Compressor Trainer

The Hampden **MODEL H-DSCT-1A** facilitates the study and troubleshooting of the electrical and control circuits of a three-phase, dual-speed hermetic compressor. Standard commercial components are wired into an operating electrical control system, while the compressor is simulated with pilot lights and sound. Up to 16 malfunctions may be inserted via the fault switches mounted on the side of the trainer. Input power is single-phase AC. Three-phase power to operate the trainer is obtained from a built-in converter.

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

Option: Model HMC-3 Mobile Cart



H-EHST-1B Electric Heat Service Trainer

The Hampden **MODEL H-EHST-1B** facilitates the study and troubleshooting of the electrical and control circuits of an electric heat furnace. Standard commercial components are wired into an operating electrical control system, while the heaters and blower are simulated by pilot lights and resistors. Up to 34 malfunctions may be inserted via the fault switches mounted on the side of the trainer. Power input is single-phase AC. The 240V for the simulated heaters is obtained from a step-up transformer.

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

Option: Model HMC-3 Mobile Cart



H-SZCT-2A Single Zone Control System Trainer

The Hampden **MODEL H-SZCT-2A** contains all of the control components of a roof top, two-stage, heating/cooling commercial air conditioning system including outside air damper control, heating setup and cooling setup, temperature and CO₂ sensor, transformers, a programmable thermostat, and control relays. Students wire these components with patch cords into a fully operational system. Fault switches mounted on the side of the trainer permit the instructor to insert up to 16 malfunctions.

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

Option: Model HMC-3 Mobile Cart

H-CFS-1C Compressor Fault Simulator

The Hampden **Model H-CFS-1C** Compressor Fault Simulator is designed to give students experience with troubleshooting hermetic compressors. Up to 16 faults may be inserted into the compressor, the current relay, the capacitors, the overload relay, or the power wiring. Using a standard hermetic compressor tester, the student determines the fault and simulates corrective action via toggle switches on the front of the panel. Lights are used to signal successful or unsuccessful results of the action. Available as a tabletop unit (shown) or for mounting on a mobile frame (as described on Bulletin 246-1). Furnished with cords.

Option: Model HMC-3 Mobile Cart



MODEL H-CFS-1C
Dimensions: 38"H x 36"W x 13"D
Shipping Weight: 160 lbs.

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



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