

# AC/Refrigeration Training Kits

Educational Training Equipment for the 21st Century

Bulletin 233-111D

## H-ACTK-21

### Mini Split-Type Air Conditioner Trainer

#### Purpose

The Hampden **Model H-ACTK-21** Mini Split-Type Air Conditioner Trainer provides a hands-on introduction to the principle components of air conditioning. This system places the indoor unit (evaporator) remotely from the outdoor unit (condenser) providing a quiet, no air flow restriction, and secure system.

The student will be required to evacuate, charge, and troubleshoot the system.

#### Specifications

##### Mobile Carrier

The mobile carrier consists of a mechanical steel base and frame. Frame and base shall be finished in textured instrument tan. Provide two locking and non-locking casters.

##### Environmental Chamber

Clear Lexan Polycarbonate and steel frame with associated heater and thermocouple control for changing the ambient conditions of the evaporator.

#### System Specifications

**Cooling Capacity:**  
9,000 BTU/H

**S.E.E.R.:**  
22

**Moisture Removal:**  
0.8 L/h

**Speeds:**  
3 + Automatic

**Compressor:**  
Twin Rotary

**Evaporator:**  
Finned Coil with centrifugal fan

**Refrigerant:**

R-410A

**Metering Device:**

Capillary Tube

**Air Circulation:**

330 CUft./Min (high)

**Timer:**

24 hour clock with ON/OFF  
Programmer Timer

**Controls:**

Microprocessor

**Thermostat:**

Integrated Circuit



**MODEL H-ACTK-21**  
Mini Split-Type Air Conditioner Trainer

#### Accessories

**Gauges:**

High and Low pressure

**Thermocouples:**

Type-T - 7 required.

Digital Thermometer with associated  
7-position selector switch.

#### Option

**H-ACTK-21-FP-IOE** Fault Program-  
Electrical with 10 programmable Faults.

#### Services Required

220VAC single-phase 60Hz

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

**Hampden**  
ENGINEERING CORPORATION

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