

AC/Refrigeration Training Kits

Educational Training Equipment for the 21st Century

Bulletin 233-111F

H-ACTK-21A

Mini Split-Type Air Conditioner Trainer

Purpose

The Hampden **Model H-ACTK-21A** 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:
Variable

Compressor:
Daikin Single Swing

Evaporator:
Finned Coil with centrifugal fan

Refrigerant:

R-410A

Metering Device:

Electronic Expansion Valve

Air Circulation:

330 CUft./Min (high)

Timer:

24 hour clock with ON/OFF
Programmer Timer

Controls:

Microprocessor

Thermostat:

Integrated Circuit



MODEL H-ACTK-21A
Mini Split-Type Air Conditioner Trainer - Assembled

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



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