

# Heat Pump Training Kits

Educational Training Equipment for the 21st Century

Bulletin 233-112D

## H-RST-21A

### Mini Split-Type Heat Pump Trainer

#### Purpose

The Hampden **Model H-RST-21A** Mini Split-Type Heat Pump Trainer provides a hands-on introduction to the principle components of heating and 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.

#### Description

##### Mobile Carrier

The Hampden **Model H-RST-21A** Mini Split-Type Heat Pump Trainer 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.

All the major components have been removed from the outdoor unit and positioning them on the trainer's panel to provide easy access for troubleshooting and visualization. All components are clearly identified by legends.

Incorporated into the trainer is a 20" monitor/computer system. This computer is running the OEM status software program providing all the system data on the screen. The software program is used in diagnosing the system's condition and providing useful troubleshooting information.

Also included are (6) six instructor insertable electrical faults. The faults are located in a lockable compartment allowing the instructor to fault the system for troubleshooting.

#### Option

##### H-RST-21A-IT Installation Tool Kit

*Options must be specified at time of original order.*



**MODEL H-RST-21A**  
Mini Split-Type Heat Pump Trainer

#### System Specifications

**Cooling Capacity:**  
15,000 BTU/H

**Heating Capacity:**  
18,000 BTU/H

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

**Moisture Removal:**  
0.8 L/h

**Speeds:**  
Variable

**Compressor:**  
Daikin Double Swing

**Evaporator:**  
Finned Coil with centrifugal fan

**Refrigerant:**  
R-410A

**Metering Device:**  
Electronic Expansion Valve

**Air Circulation:**  
568 CUFT./Min (high)

**Timer:**  
24 hour clock with ON/OFF  
Programmer Timer

**Controls:**  
Microprocessor

**Thermostat:**  
Integrated Circuit

#### Services Required

220VAC single-phase 60Hz

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



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