

AIR CONDITIONER TRAINER

CE-50-01-01

EDU-LABS



- Movable air conditioner system trainer built on one aluminum alloy profile, with drawer type electrical controlling system saving space and easy for operation.
- High/low pressure pipelines marked with colors for easy identification, special designed testing points on each key position for fast pressure measuring connection via HP/LP gauge group.
- Centralized wiring terminal box for easy electrical arrangement, coming with 4mm safety sockets and code number.
- Refrigeration flow on top panel, indicating the high pressure and low pressure states with related meters for real time temperature display of key positions.

TRAINING CONTENT

- Air conditioning system pipeline construction
- Wiring of Air Conditioner electrical system
- Coolant state tracking and its relationship with pressure
- System vacuumization and coolant charging

- System air tightness testing
- Thermodynamics elements application
- Application of air conditioning system maintenance tool

CONFIGURATION

1. Training Platform

- Guide rail type aluminum alloy frame
- Terminal blocks
- Cabling channel
- Drawer
- Universal lockable wheels
- Dimension: 960mm × 825mm × 1880mm (approx.)

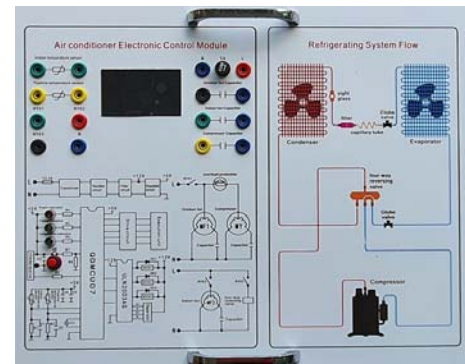
2. Power Supply Panel

- Input: 1PH 240V±10%, with short circuit / leakage protection and power indicator
- Output: 2-way 240V universal output sockets
- Digital display: 0...250V and 0...5A current indication
- Safety 4mm sockets for power in/out
- Painted panel with carrying handles



3. Air Conditioner Electrical Control

- Sensor: indoor temperature sensor, pipeline temperature sensor
- Capacitor: outdoor/indoor fan capacitor, compressor capacitor
- Working indicator: red, blue, yellow
- Others: push button, 5A fuse, etc.
- Painted panel with carrying handles



4. Air Conditioner System Demonstration Board

- Aluminum alloy frame 40mm×40mm
- Digital thermometer for compressor / condenser / evaporator / environmental temperature display - System work flow indicators (red, green, yellow)
- Rotary knob, rocker switches, fuse protector, etc.
- Printed board

5. System Pressure Detection Unit

- High pressure side vacuum manometer: -0.1-3.8MPa
- Low pressure side vacuum manometer: -0.1-1.8MPa
- Steel support, fixed by hexagon socket head cap screws

6. Air Conditioner System

- Rotary compressor (R22)



- Four-way reversing valve
- Air control valve
- Indoor heat exchanger
- Throttling device
- Outdoor heat exchanger
- Sight glass



7. Connecting Lead: 4mm Safety Stackable Test Leas Sets

8. Tool Kit

1). Portable welding torch



2). Rotary-vane vacuum pump



3). Pipe bender



4). Dual-Gauge Valve



5). Adapter Suite



6). Wrench



7). Measuring Tape



8). Charging hose



9). Allen Key Set



10). Expand tube reamer

11). Cutting-off tool

12). Chamfering tool



Note: Due to products continuous development process, layout and specification may change without prior notices.