



Technical Features & Specifications

- **Compressor Drive:** Powered by a three-phase asynchronous motor.
- **Control Interface:** Integrated control panel for demonstration and instructional use, enabling visualization of the operational principles of automotive air conditioning systems.
- **Training Bench Construction:**
 - Material: Advanced aluminum-plastic composite panel.
 - Thickness: Minimum 4 mm.
 - Properties: Corrosion-resistant, impact-resistant, pollution-resistant, fireproof, and moisture-proof.
- **Signal Detection:**
 - Equipped with diagnostic terminals for electrical measurements (resistance, voltage, current, frequency) of AC system components.
- **Monitoring Instruments:**
 - High and low-pressure gauges.
 - Digital thermometers at both inlet and outlet points to provide real-time pressure and temperature readings.
- **Fault Simulation System:**
 - Wireless fault-setting and evaluation system operated via tablet.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Instructors can set faults; students diagnose and resolve issues.
- **Vehicle Basis:** Trainer system based on **Toyota Corolla 1.6L** platform.

Dimensions & Power Requirements

- **Physical Dimensions:** Minimum 1000 mm (L) × 1000 mm (W) × 1800 mm (H)
- **Driving Power Supply:** Three-phase, four-wire system (380V ±10%, 50Hz)
- **External Power Supply:** AC 220V ±10%, 50Hz
- **System Operating Voltage:** 12V DC
- **Refrigerant Type:** R134a
- **Operating Temperature Range:** -40°C to +50°C

System Configuration

- Detection Control Panel
- Diagnostic Socket
- Ignition Switch
- Signal Simulator
- High Pressure Gauge
- Low Pressure Gauge
- Digital Thermometers (Inlet & Outlet)
- Controller Assembly
- Evaporator Assembly
- Compressor Assembly
- Expansion Valve Assembly
- Dryer Assembly
- Blower Assembly
- Condenser
- Three-Phase Asynchronous Motor

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- Cooling Fan
- Tablet PC (for instructor control)
- Intelligent Wireless Fault-Setting & Evaluation System
- Mobile Framework with Lockable Wheels

Software Package (Standalone Version)

Automotive Air Conditioning System Training Software

- Dual-terminal Structure: Separate interfaces for Teachers and Students.

Teacher Terminal Modules:

- Student Information Management
- Test Score Management
- Fault Setting Controls
- Scoring System
- Password Configuration

Student Terminal Modules:

- Basic Structure Cognition
- System Introduction
- Troubleshooting
- System Detection & Repair
- Assessment Module

Purpose: Designed to complement the hardware training bench. Enables full-spectrum learning from theory to practical diagnostics and repair.

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