



Description :

The Car Air Conditioning (A/C) System Trainer is a fully functional educational unit designed to demonstrate the principles of automotive AC systems. It provides hands-on training in the refrigeration cycle, system operation, diagnostics, and servicing procedures used in modern passenger vehicles. The trainer is equipped with industrial-grade components, gauges, and safety features, making it suitable for use in technical institutes, vocational schools, and automotive training centers.

Specifications :

- Dimensions & Frame - 1,000 × 1,000 × 1,000 mm; Steel frame with lockable castor wheels
- External Power Supply - AC 220 V ±10%, 50 Hz
- Operating Power Supply - 12 V DC for blower and controls
- Refrigerant - R134a
- Operating Temperature - -40 °C to +50 °C
- Compressor - Belt-driven swash plate type
- Condenser - Air-cooled, fin-and-tube with electric cooling fan
- Receiver-Drier - With filter and optional sight glass
- Expansion Valve - Thermostatic Expansion Valve (TXV)

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



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- Evaporator & Blower - Finned coil evaporator with 12 V DC blower fan
- Refrigerant Lines - High- and low-pressure hoses with service ports
- Gauges / Controls - High-pressure (0-3.5 MPa), Low-pressure (0-1.5 MPa); ON/OFF switch, temperature and blower control
- Motor - Three-phase asynchronous motor, 2.2 kW, 1,420 r/min, or 220/415 V AC, 50/60 Hz

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