

Automotive Air-Conditioning Demonstrator Trainer Order Code : 32511 is designed to accelerate student understanding of the automotive air conditioner operating principles and practice. It also enables students to practice and enhance the fault diagnostics and trouble shooting skills.

The trainer consists of

Basic element components in automotive air conditioner unit ; automotive compressor, electric motor, dryer, high / low pressure gauge set, side glass, air cool condenser, finned tube evaporator with force draft fan, temperature controllers, ammeter and voltmeter. The trainer is capable of simulating different engine speed (idler or full speed) conditions. It is controlled by digital frequency inverter. DC variable power source enables to vary the speed of the condenser and evaporator force cool fan. Consequently the students can gain trouble shooting experience in various conditions. On the trainer monitoring instrument side, there are four units of digital temperature controllers for user to view the high and low side critical points, two units of pressure gauge to observe the high side, low side refrigerant pressure. Side glass is provided for students to observe the refrigerant change state - from liquid to gas. DC ammeter, voltmeters are built in for students to understand the principles of controlling the DC motor speed by various applied voltages. With the help of aluminum anodized mimic diagrams with elaborate electrical circuit and refrigeration cycle drawings, the students can do direct electrical measurements at safety socket installed in mimic diagrams, by using a multi-meter. Also the method of charging the refrigerant and discharging the unit are indicated on the mimic diagram.

The trainer construction is made of aluminum anodize profile frame. It is mounted on of four lockable castors to ensure mobility and stability.

- Machine dimension: 1450H x 650L x 1325W in mm
- Power source : 240Vac 50Hz, 10A.
- Gross weight : @150kg max
- Refrigerant used : R134a

Accessories

- The System comes complete with all accessories required for training and teaching the principles, theory & practical technology.

Manuals

- Operating instructions
- Student experiment book
- Teacher's answer book.



Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tescaglobal.com