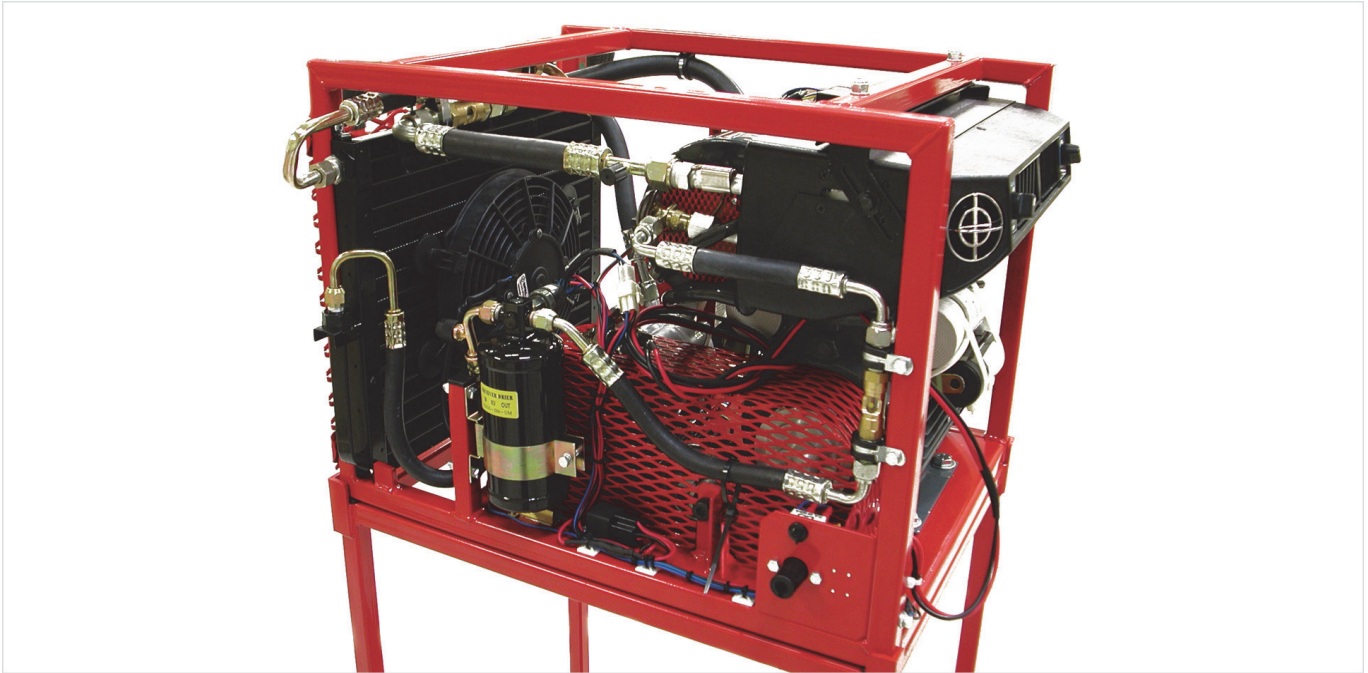


## Product Information Sheet

### Air-Conditioning System Trainer



This real component-based trainer provides students and instructors with the opportunity to demonstrate and investigate the operation of a functional automotive air conditioning system.

The trainer is designed to allow access to the vacuum system and electrical system, as well as provide the opportunity to understand the processes involved with system evacuation and charging.

The unit features a dashboard control system and has a single-phase electric motor that drives the a/c compressor. Special sight glasses are fitted to the high-pressure and low-pressure pipes to allow the student to see the two states of the refrigerant. It is possible to use the unit with an industrial standard recharging station, allowing the student to service the entire air conditioning system.

The trainer can also be used in conjunction with our optional cloud-based software, which offers online practical tasks as well as interactive theory presentations, investigations, and assessments, which link directly to the practical activities carried out using this resource.

#### Typical Practical Tasks Include:

- Air conditioning trainer familiarisation
- Identify A/C components and operation
- Investigate A/C trainer operation
- Identify refrigerant types
- Conduct an A/C system performance test
- Verify correct operation and maintenance of refrigerant handling equipment
- Identify and recover A/C system refrigerant
- Evacuate and charge A/C system

- Label & store refrigerant and test recycled refrigerant for non-condensable gases
- Inspect the condition of discharged oil
- Leak test A/C system
- Remove and replace A/C compressor
- Inspect A/C condenser for airflow restrictions
- Remove and inspect A/C system mufflers, hoses, pipes, fittings, o-rings, seals, and service valves
- Remove and install receiver/drier or accumulator/drier
- Evacuate and charge A/C system
- Diagnose A/C system conditions that cause protection devices (pressure, thermal, and PCM) to interrupt system operation; determine necessary action.

#### Items Included:

- Trainer
- Power supply unit (12V 30A)
- AC supply outlet (208V – 230V)

#### Other Items Required:

- Automotive workshop tools

#### General Information:

Trainer Dimensions (W x D x H):  
740 x 650 x 1425 mm / 29 x 26 x 56 inches

Packed Volume: Approx. 1.25m<sup>3</sup> / 44ft<sup>3</sup>

Packed Weight: Approx. 130kg / 285lb

Packed Dimensions (W x D x H):

Box 1: 800 x 710 x 690 mm / 32 x 28 x 28 inches

Box 2: 1120 x 920 x 830 mm / 45 x 37 x 33 inches

*The image shown is for illustrative purposes only – actual product may vary due to product enhancement.*

**Order Code: 766-01**

P8495-C

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