

# **AUTOMOTIVE AIR CONDITIONING TRAINER - 4 FAULTS** 810



Year 1 study

## **Features**

- Complete System Bench Mounted
- Fitted with 12 Volt Control System
- Optional Student Tool Kit and Test and Service Equipment
- Instruction manual Contains Course Notes
- Instruction Notes and Student Example Worksheets
- Demonstrates Common Faults and Effects on the System

#### **Description**

The 810 is designed to train students in the operation, fault finding, maintenance and repair of automotive air conditioning systems. It comprises a complete automotive air conditioning system on an alloy frame suitable for bench mounting. The unit operates on R134a refrigerant used in most current vehicle air conditioning systems and connections are provided to allow the use of

standard R134a manifold gauges.

The compressor is driven by a synchronous AC electric motor and the complete unit has an internal Residual Current Device for additional operator safety. Apart from the drive motor all other controls are 12V as used in automotive air conditioning systems.

Temperature control is by an adjustable electronic thermostat and the evaporator has three fan speeds to show the effect of air velocity and varying load on the system

A standard Student Tool Kit and Test and Service Equipment Package are available as optional items.

### **Related laws**

- Automotive
- Air conditioning



- Fault finding
- maintenance and repair

## Learning capabilities

- Four common faults can be demonstrated:
- Blocked Thermostatic Expansion Valve
- · Blocked Drier
- · Compressor Fault
- · Poor Condensing

# **Technical Specification**

- Electric Motor nominal 1500rpm with overload cut out.
- Five cylinder open type compressor with duty of up to 7.5 Kw at maximum rated speed.
- Air cooled condenser and fan with 12v dc motor.
- Evaporator fitted with three speed 12 dc fan and Thermostatic Expansion Valve.
- Electronic thermostat, adjustable for temperature control.
- Transformer to provide 12v automotive control circuit.
- Electrical control box with key locked emergency of button, on – off switch, ignition key and residual current device.

#### **Recommended Ancillaries**

- TKB
- TSE

#### What's in the Box?

- 1 x 810
- Instruction manual
- Packing list
- Test sheet

# Weights & Dimensions

Weight: 100 kgLength: 910mmWidth: 570mmHeight: 460mm

## **Essential Services**

13Amp, 220-240 Volts, Single Phase, 50Hz (With

earth/ground).

 26Amp, 110-120 Volts, Single Phase, 60Hz (With earth/ground).

## **Ordering information**

To order this product, please call PA Hilton quoting the following codes:

810/230

810/115

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COUNTRY OF ORIGIN - UK WARRANTY PERIOD - 2 YEARS