

# HERMETIC REFRIGERATION SYSTEM TRAINING PROGRAM - 5 FAULTS

804



Year 1  
study

## Features

- Designed for the Training of Domestic Refrigeration and Air Conditioning Service Engineers
- Promotes clear understanding of hermetic systems using a capillary tube as flow control
- Built in System Faults
- Optional Student Tool Kit, Test and Service Equipment and Maintenance and Student Practice Package.
- Instruction manual Contains Course Notes, Instruction
- Notes and Student Example Worksheets.
- 230V, single phase, 60Hz option

## Description

Hermetic refrigeration systems using a capillary tube as the flow control are very extensively used in domestic and small commercial refrigeration appliances such as freezers, Air Conditioners, Water Chillers etc. Effective, economically acceptable and lasting repairs are only possible when the Service Engineer has a thorough understanding of the Hermetic System. The comprehensive 804 Hermetic Refrigeration System Training Unit manual supplied, leads the student from a fundamentals understanding to a full understanding of the hermetic system. The 804 Training Unit is mounted on a steel frame with stainless steel panels and comprises an hermetic type compressor with air cooled condenser and evaporator with capillary tube flow control. Using the push button switches, five system faults can be introduced into the system: i. Excess discharge pressure ii. Faulty compressor valve iii. Choked capillary iv. Overcharged system v. Undercharged system A standard Student Tool Kit, Test and Service Equipment Package and Maintenance and Student Practice Package are available as optional items.

**Related Laws/Applications**

- Domestic refrigeration
- Air Conditioning
- Service Engineers
- Hermetic systems
- Service equipment
- Fault finding

**Learning capabilities**

- Excess discharge pressure
- Faulty compressor valve
- Choked capillary
- Overcharged system
- Undercharged system

**Technical Specification**

- Fan cooled hermetic condensing unit with high starting torque compressor
- Front mounted evaporator with suction accumulator
- Liquid line dryer
- Compound and Pressure gauges
- Suction and discharge service valves fitted
- High pressure safety switch
- Digital readout of condenser outlet temperature
- On/off switches for compressor and condenser fan
- Fault selection control switches

**Recommended Ancillaries**

- TKB
- TSE

**What's in the Box?**

- 1 x 804
- 1 x Transformer (115V only)
- Instruction manual
- Packing list
- Test sheet

**Weights & Dimensions**

- Weight: 66 kg
- Weight: 70 kg (115V version)
- Length: 1030mm
- Width: 730mm
- Height: 730mm

**Essential Services**

- 4 Amp, 220-240 Volts, Single Phase, 50/60Hz(With earth/ground).
- 8 Amp, 110-120 Volts, Single Phase, 60Hz(With earth/ground).

**Ordering information**

To order this product, please call PA Hilton quoting the following codes:  
804/230  
804/115

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COUNTRY OF ORIGIN - UK WARRANTY PERIOD - 5 YEARS