



Hermetic Refrigeration System Training Unit

804



- ***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.***
- ***Two year Warranty***



Introduction

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.

Description

The 804 is one of a range of trainers designed to provide practical training in the fields of Refrigeration and Air Conditioning.

Each trainer has been carefully designed to provide instruction in specific topic areas that trainees are required to study as part of most Refrigeration and Air Conditioning courses.

The 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.

Further details available on request.

Student Tool Kit



Test & Service Equipment



804 Maintenance & Student Practice Package





Specification

DETAILED

Unit is bench mounted on a steel framework with stainless steel back and base panels incorporating a drip tray for condensate.

The unit includes:

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

Operating Manual

A comprehensive operating manual includes:

- Notes on theory and principles
- Instructor's guide notes
- Student test papers and sample answers
- Electrical wiring diagram.

Dimensions(Approx).

Height 73cm Depth 73 cm
Width 103cm Weight 66 kg

Services Required

Electrical

Either: A: 4Amp.220-240 Volts, Single Phase, 50Hz(With earth/ground).

OR

B: 8Amp.110-120 Volts, Single Phase, 60Hz(With earth/ground).

Optional Equipment

- Student Tool Kit
- Test And Service Equipment
- Maintenance And Student Package

Ordering Information

Order as: Hermetic Refrigeration System
Training Unit 804

Electrical Specification

Either: A: 220-240 Volts, Single Phase 50Hz
(With earth/ground).

OR

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

Language

Either: English, Spanish or French

Shipping Specification (Approx)

Net Weight: 66 kg
Gross Weight: 140 kg.
Packing Case Dimensions: 117x 84 x 94 cm
Packing Case Volume: 0.924m³

Also Available on Request

- Further detailed specification
- Additional copies of instruction manual
- Recommended list of spares for 5 years operation

P.A.HILTON Ltd.

Horsebridge Mill, King's Somborne,
Stockbridge, Hampshire, SO20 6PX, England.

Telephone: National (01794) 388382
International +44 1794 388382

Fax: National (01794) 388129
International +44 1794 388129

E-mail: sales@p-a-hilton.co.uk
Website: www.p-a-hilton.co.uk

