



## ***Domestic Refrigeration System***

**809**



- ***Designed to Allow Students to Practice Fault Finding and Repair of Domestic Refrigeration Systems***
- ***Open Format, Designed to Allow Students to Evacuate and Charge the System with Refrigerant***
- ***Optional Student Tool Kit, Test and Service Equipment***
- ***Two year Warranty.***



## ***Introduction***

When initially training student in the fault finding and repair of domestic refrigeration systems difficulties can be experienced if a standard commercial unit is used. These are designed for minimum cost manufacture and many of the working parts are obscured by the case and insulation. The design of Model 809 ensures that both the Trainer and the Trainee are able to study the major refrigeration and components

With its open bench mounted design Model 809 promotes a clear understanding of domestic refrigeration systems and the teaching of:

- Evacuation
- Charging
- Fault Finding
- Recovery
- Repair

## ***Description***

Model 809 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 an aluminium frame with plastic panels and comprises a hermetic type compressor with air-cooled condenser and plate box type evaporator.

A variety of different diameters and lengths of capillary tube flow control can be fitted and the operation with each type studied.

A drier and thermostat are also fitted and the thermostat can be adjusted to enable basic studies in the operation and control of domestic refrigeration systems to be studied.

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

Further details available on request.

**Student Tool Kit**



**Test & Service Equipment**





**P.A.Hilton Ltd**

Engineering Teaching Equipment

## ***Specification***

### **DETAILED**

The unit is mounted on a aluminium framework with plastic base and back panels.

Air-cooled condensing unit with hermetic type single cylinder reciprocating compressor.

Box plate type evaporator.

Refrigerant flow control options. Can be changed by fitting one or more of the following:

1. Standard diameter capillary tube and length
2. Non -Standard diameter capillary tube
3. Non -Standard length capillary tube

Refrigerant R134a

An electrical control box is mounted on the back panel and includes a combined overload cut out and , on/off switch, as well as a residual current device for protection against earth leakage.

### ***Operating Manual***

A comprehensive Installation Operation and Maintenance Manual is included.

## ***Dimensions***

Height 100cm      Depth 50 cm  
Width 50 cm      Weight 25 kg

## ***Services Required***

### **Electrical**

Either: A: 2.5Amp.220-240 Volts, Single Phase, 50Hz(With earth/ground).

### **OR**

B: 5Amp.110-120 Volts, Single Phase, 60Hz(With earth/ground).

## ***Optional Equipment***

- Student Tool Kit
- Test And Service Equipment

## ***Ordering Information***

**Order as:** 809 Refrigeration System – Domestic

## ***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: TBAkg

Gross Weight: TBAkg.

Packing Case Dimensions:

TBA cm

Packing Case Volume: TBA m<sup>3</sup>

## ***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](mailto:sales@p-a-hilton.co.uk)  
Website: [www.p-a-hilton.co.uk](http://www.p-a-hilton.co.uk)

