

REFRIGERATION SYSTEM - DOMESTIC

809



Year 1
study

Features

- 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

Description

The vapour compression refrigeration cycle is utilised in many industrial, commercial and domestic situations. Many vocational students when they first leave education will be involved in the servicing and repair of domestic refrigeration systems. It is therefore important that they fully understand the stages of the vapour compression refrigeration cycle and are able to recognise the typical components that are used in domestic refrigeration. The Hilton refrigeration system – domestic 809 is designed to support the teaching of - The Refrigeration Cycle - The basic Principles of Heat Transfer - The function and application Capillary Refrigerant Flow Controls The unit can also assist students in understanding the important concepts of: - Latent Heat and change of state (liquid to gas – gas to liquid) - The Pressure / Temperature Relationship - A liquid can boil at a sub zero temperature - Saturation Temperature - Superheating - Sub-cooling Without this understanding, the student will never progress to the full appreciation of the Refrigeration System, which is necessary to enable correct fault diagnosis. Focus Model 809, with its open and accessible design, turns theory into practice by showing what actually happens within the system.

Related Laws/Applications

- Evacuation
- Charging
- Fault Finding
- Recovery
- Repair

Learning capabilities

- Fault finding and repair of domestic refrigeration systems

Recommended Ancillaries

- TKB
- TSE

What's in the Box?

- 1 x 809
- 1 x Transformer (115V only)
- Instruction manual
- Packing list
- Test sheet

Weights & Dimensions

- Weight: 25 kg
- Weight: 29 kg (115V version)
- Length: 500mm
- Width: 500mm
- Height: 1000mm

Essential Services

- 2.5Amp, 220-240 Volts, Single Phase, 50Hz (With earth/ground).
- 5.0Amp, 110-120 Volts, Single Phase, 60Hz (With earth/ground).

Ordering information

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

809/230

809/115

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COUNTRY OF ORIGIN - UK WARRANTY PERIOD - 5 YEARS