

## VISUAL REFRIGERATION TRAINING UNIT 801



**Year 1  
study**

### Features

- Shows Clearly the Basic Principles of the Vapour Compression Refrigeration Cycle
- Introduces the Concepts of Change of State, Saturated Liquid, Saturated Vapour and Superheated Vapour
- 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
- Demonstrates Common Faults and Effects on the System

### Description

Model 801 is one of a range of trainers 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 open type compressor with air cooled condenser and clear plastic evaporator. A variety of different flow controls can be selected and the operation with each type of control studied, including liquid return to the compressor. All the flow controls and the high and low pressure switches are adjustable by the student to enable basic studies in the control of vapour compression refrigeration. A standard Student Tool Kit, Test and Service Equipment Package and Maintenance and Student Practice Package are available as optional items.

### Related Laws/Applications

- Latent heat
- Pressure/temperature relationship
- A liquid can boil at sub-zero temperatures
- Saturation temperature
- Superheat
- Sub-cooling

**Learning capabilities**

- With its transparent evaporator, the Model 801 is designed to promote a clear understanding of these concepts, and to support the teaching of:
- - The basic principles of heat transfer
- - The Vapour compression refrigeration cycle
- - Function and application of different flow controls

**Technical Specification**

- High pressure switch Cut Out Pressure: 12 bar gauge
- High pressure switch Re-start pressure: 10.5 bar gauge
- Low pressure switch Cut Out Pressure: 0.2 bar gauge
- Low pressure switch Re-Start pressure: 1.8 bar gauge
- Relief valve operating pressure: 13 bar gauge

**Recommended Ancillaries**

- TKB
- TSE

**What's in the Box?**

- 1 x 801
- 1 x Transformer (115V only)
- Instruction manual
- Packing list
- Test sheet

**Weights & Dimensions**

- Weight: 89 kg
- Weight: 93 kg (115V version)
- Length: 1340mm
- Width: 640mm
- Height: 1630mm

**Essential Services**

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

**Ordering information**

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

801/230

801/115

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COUNTRY OF ORIGIN - UK WARRANTY PERIOD - 5 YEARS