



## ***Split Air Conditioning Trainer 817***



*This photograph is for illustrative purposes only; we reserve the right to change the visual appearance of the unit without prior notice.*

- A Split Air Conditioning System with Reverse Cycle (Heat Pump) Capability.***
- Clear-View Panels Allow the Main Components to be Safely Examined by Students.***
- Supplied Panel Mounted and Fully Charged for Student Evaluation and examination.***
- Safe and Suitable For Unsupervised Student Operation.***
- Detailed Instruction Manual.***
- Two year Warranty.***



## ***Introduction***

When initially training student in the fault finding and repair of air conditioning systems, difficulties can be experienced when evaluating a standard commercial unit. This is due to the fact that commercial systems are necessarily compact, of basic design and thermally insulated. The Hilton Model 817 with its open but fully operational format ensures that both the Trainer and the Trainee are able to study the major air conditioning parts and components on a working system.

With its open design Model 817 promotes a clear understanding of Air Conditioning Systems and in particular the reverse cycle operation of air conditioning systems for heating purposes

## ***Description***

Model 817 is one of a range of vocational 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 817 Split Air Conditioning Trainer is mounted on a metal frame with high pressure and low pressure gauges connected to the two halves of the system. The unit consists of a small “split type” Air Conditioning unit with reverse cycle (Heat pump type heating) capability that is ready for immediate operation. Thermocouples the system pressure gauges and a multi-point digital temperature indicator allow both air conditioning and reverse cycle (heat pump) operation to be observed and more easily understood. When the system is switched from normal (air conditioning/cooling mode) to reverse cycle the system pressures can be seen to reverse along with many of the system temperatures.

The compressor, reversing valve, and suction return vessel together with the basic expansion devices for both cooling and heat pump (reverse cycle) operation are clearly visible.

Integral safety devices ensure safe operation even by inexperienced students.

Further details available on request.





**P.A.Hilton Ltd**

Engineering Teaching Equipment

## ***Specification***

### ***DETAILED***

The unit is mounted on a metal framework with pressure gauges and multi point digital temperature indicator.

Split Type air conditioning unit with reverse cycle capability that is supplied pre-assembled and charged ready for immediate operation.

Integral safety devices ensure safe operation even by inexperienced students.

### ***Operating Manual***

A comprehensive operating manual includes:

- Notes on theory and principles
- Guide notes and System Details
- Detailed explanation of system cycle in both air conditioning and reverse cycle (heat pump) operation.
- Sample operational test results and discussion.

### ***Optional Extra***

#### **IM32/41 - Whirling Hygrometer**

Provides relative humidity measurement in approximately 2 minutes.

Incorporates calculator scales for simplicity



## ***Dimensions***

Height 107 cm   Depth 50 cm  
Width 80 cm   Weight 50 kg

## ***Services Required***

### **Electrical**

Either: **A:** 10 Amp.220-240 Volts, Single Phase, 50Hz (With earth/ground).

### **OR**

**B:** 20 Amp.110-120 Volts, Single Phase, 60Hz (With earth/ground).

## ***Ordering Information***

**Order as:** Air Conditioning Trainer 817

## ***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: 50 kg

Gross Weight: (Approx) 90 kg.

## ***Also Available On Request***

Further detailed specification.

Additional copies of instruction manual.

Recommended list of spares for 5 years operation.

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