



## **Cussons Refrigeration Assembly Range**

### **P5734 - Beverage Cooler Build Bench**

### **P5735 - Refrigeration Wiring Skills Bench**

#### **INTRODUCTION**

These two assembly systems provide practical skills in two commercial areas of refrigeration work. Each provides realistic training in the assembly and operation and fault finding of their respective refrigeration systems.

The P5734 Beverage Cooler Build Bench provides a simple real life refrigeration application that can be assembled by the student to make a working beverage cooling chamber. Fault initiation switches are included in the design. P5734 operates with R134a, an environmentally acceptable refrigerant.

The P5735 Refrigeration Wiring Skills Bench provides the practical experience for refrigeration engineers to be able to build and test electrical circuits associated with refrigeration and its controls. Fault initiation is also included.

#### **EXERCISES**

P5734 Beverage Cooler Build Bench can be used as an introduction to the practical skills in assembling refrigeration components, and piping the components together with a range of different joint techniques, such as flared joints. The unit, when assembled, provides a basic exercise in operation.

P5735 Refrigeration Wiring Skills Bench is a practical exercise in understanding the wiring scheme for a typical refrigeration circuit, relating this to a wiring diagram, and assembling the components and their wiring.

#### **DESCRIPTION**

The P5734 Beverage Cooler Build Bench is bench mounted refrigeration system equipped with a fascia mounting plate, on which a mimic of the refrigerant circuit is provided showing the compressor, condenser and evaporator within an insulated chamber. An expansion valve, driers and filters are included in the circuit, and a range of different joint techniques are required as part of the assembly process, such as brazing and pipe flaring. Pressure transducers and thermocouples can be installed in the circuit.

Detail, step by step assembly instructions are provided. It is necessary to purchase a fill and evacuate module such as Cussons P5730.

Faults can be initiated by switches set in the control and monitoring circuits.

#### **P5735 Refrigeration Wiring Skills Bench**

The unit is a bench top mounted unit, and with a mimic of the refrigeration circuit on the front panel. Junction boxes for mechanical components such as compressors, condenser fans, thermostats and transducers are provided to which the wiring can be installed.

A range of different fuses, isolators and circuit breakers are provided to teach the basics of circuit protection. Detail, step by step assembly instructions are provided.

Faults can be initiated by switches set in the control and monitoring circuits.