



Cussons Refrigeration Trainer Range

P5724 - Refrigerator Compressor Fault Simulator

P5725 - Refrigeration Control Simulator



P5724 - Compressor Control Simulator

INTRODUCTION

The two Simulators (P5724 and P5725) are available to provide realistic training in setting up, operating and fault finding in the control of refrigeration Systems.

Whilst the simulator seems slightly remote to the physical reality of large scale refrigeration systems it should be remembered that in the field the components of a refrigeration system will be physically spread out and therefore analysis by a set of collected indicators is a common requirement.

The P5724 Compressor Controls Simulator provides a standard refrigeration compressor and a range of control devices that can be operated to simulate the starting and operation of a compressor associate with a refrigeration system. The simulation includes failure of components and power supplies.

EXERCISES

P5724 Fault Finding exercises can be initiated by control switch input. Switches on the side of the unit can be operated by the student or the teacher, and the students are required to analyse and diagnose the fault from LED indicators related to the circuit diagram. Twelve faults can be initiated.

DESCRIPTION

P5724 Compressor Controls Simulator

A bench top mounted control simulator utilising a programmable logic controller to simulate the operation and consequences of problems in compressor safety, operation and starting.

FEATURES

- ◆ Fault Finding (12 faults)
- ◆ Simulates field conditions using components found in Industry
- ◆ Compact self contained
- ◆ Bench mounted
- ◆ Mimic Diagram with LED indicators

WEIGHTS AND DIMENSIONS

| | H | W | D | Weight (nett/gross-Kg) |
|--------|-----|-----|-----|---------------------------|
| P5724- | 630 | 600 | 400 | N/A |



P5725 - Refrigeration Control Simulator

INTRODUCTION

P5725 principle is similar to the P5724 but covers a range of refrigeration faults.

DESCRIPTION

A bench top mounted control simulator utilising a programmable logic controller to simulate the operation and consequences of problems in compressor safety, operation and starting.

A mimic of the electric circuit is provided on the front panel with a range of commercial products such as controls and switching devices.

Faults can be initiated by side mounted switches so that the lecturer can keep them hidden from students view. Symptoms of the failure are indicated by the illumination of LED's and the students are required to relate these symptoms to determine which fault had been initiated.

Twelve different faults can be initiated, such as loss of power, fuse failure, motor coil failure etc.

P5725 Refrigeration Control Simulator

The unit is similar to the P5724, being a bench top mounted unit, but with a mimic of the refrigeration circuit on the front panel. Faults that can be simulated include blockage of pipes, filters, failure of expansion devices, thermostats etc.

The P5725 refrigeration control simulator provides a simulation of a commercial refrigeration circuit such as that found in a supermarket supply system. A range of failure scenarios are available.

FEATURES

- ◆ Fault Finding
- ◆ Simulates field conditions using components found in Industry
- ◆ Compact self contained
- ◆ Bench mounted
- ◆ Mimic Diagram with LED simulator

WEIGHTS AND DIMENSIONS

| | H | W | D | Weight (nett/gross-Kg) |
|--------|------|------|-----|---------------------------|
| P5725- | 1030 | 1250 | 600 | 100/185 |

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