



P5735 REFRIGERATION WIRING SKILLS BENCH



INTRODUCTION

The P5735 allows the lecturer to introduce 12 faults into a control circuit, which has been wired by the student. The Unit has a mimic diagram on the front panel, which simulates an actual compressor control circuit. This allows the unit to be demonstrated in the classroom, which in the real world may not be possible.

The cubicle is fitted with examples of the typical devices one may come across in the field, such as high and low pressure switches, a thermostat. The fault switches are hidden beneath a panel on the door of the control cubicle so they are not visible whilst the particular fault is being diagnosed.

The faults are exclusive and only one should be selected at any time, however no damage will result if all the faults were selected at once. Diagnosis will be a little more difficult as odd conditions may occur which would not occur normally.



3 PHASE CIRCUIT

The circuit comprises, a mains isolator, circuit breaker / overload, star delta starter and defrost timer. All of the components are typical of those found in industry, albeit of a smaller size than may be used on a large installation. The components are arranged on the front panel, as they would typically be laid out in a control cubicle, with the necessary terminals and trunking. Situated outside of the trunking, on the left hand side, are the typical sensors that you would find in a refrigeration system, Thermostat, high-pressure switch, differential pressure switch and solenoid valve. On the right hand side are two terminal boxes, the lower one being typical of the type found on a 3-phase motor.

SINGLE PHASE CIRCUIT

The circuit comprises, a mains isolator, circuit breaker / overload, contactor and defrost timer. The components are arranged on the front panel, as they would typically be laid out in a control cubicle, with the necessary terminals and trunking. Situated outside of the trunking, on the left hand side, are the typical sensors that you would find in a refrigeration system, Thermostat, high-pressure switch, differential pressure switch and solenoid valve. To the right hand side, the upper terminal box is typical of that found on a single-phase motor and above it a start capacitor for the single-phase motor.

OVERALL DIMENSIONS

TBA

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