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Product Name :
Commercial Refrigeration Trainer

Product Code :
LBNY-0005-11700051



Description :

The unit is similar to the being a bench top mounted unit, and with a mimic of the refrigeration circuit on the front panel. The circuits are arranged within the evaporators to allow for hot gas defrosting. Faults that can be simulated include blockage of pipes, filters, failure of expansion devices, thermostats etc. However the circuit is considerably more complicated including one chamber for chilling and one chamber for frozen produce.

Experimental Capability:

Commercial Refrigeration Trainer principle is similar to the but covers a range of refrigeration faults. It also covers a range of refrigeration faults include fault on the compressor, fault on the oil separator, fault on the constant pressure regulator, fault initiated by blocked freezer evaporator or liquid line or by restricted freezer liquid line or by blocked drier or by blocked condenser air path or by compressor short cycling, faulty check valve, fault on freezer TEV, refrigerator TEV etc. The refrigeration trainer can be used as an introduction to the basics of refrigeration circuits including safety & operating switches conveniently built into the electrical circuits with the student assessing the consequences, & building up a diagnosis capability.

Features of Commercial Refrigeration Trainer:

Expansion of refrigerant is possible through a number of different devices such as a regulating valves & capillary tubes of various lengths. Pressure is displayed at two points on the circuit
Faults are cleared by releasing the depressed switches & by opening the hand valves. Adjustment faults may be introduced by setting incorrect values on the Pressure stats on the front panel.
The refrigeration trainer provides additional refrigerant capability, with both chiller & freezer chamber. A defrosting heater is provided driven by hot refrigerant gas. Fault initiation is also included
The training system provides functioning refrigeration circuits utilizing commercial control & components. It

provides realistic training in setting up, operating & fault finding in refrigeration systems. The system operates with one of the latest environmentally acceptable refrigerants

A mimic of the refrigerant circuit is provided on the front panel showing the circuit comprising of compressor, condenser & evaporator with an insulated chamber.

The refrigeration trainer is mounted on a wheeled stand due to its weight but at bench top height to provide students with experience in the safety, operation & faults of a refrigeration system

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

Faults that can be simulated include blockage of pipes filter, failure of expansion devices, thermostats etc Faults are selected by depressing switches & by use of the hand valves.

Technical Specification :

Commercial Refrigeration Trainer



Laboratory Instrument India