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Product Name :
Manual Chiller Units Training Bench With Data Acquisition

Product Code :
LBNY-0005-14100012



Description :

Experiments:

Safety control using the high and low pressure switch and flow switch
Plant start-up and system monitoring using the incorporated protection and safety devices
Study and understanding of the operation of a chiller unit
On-off control of the cooled water temperature.

Detecting the system operating parameters:

Calculation of thermal balances for the refrigerant and water circuit

Plotting of the refrigerant cycle on a pressure-enthalpy diagram of the refrigerant gas

Technical Specification :

Water circuit including:

Flow switch

Air heat exchanger

Centrifugal pump

Refrigeration circuit equipped with:

Liquid receiver and liquid separator

Double pressure switch

Hermetic compressor with protector

Forced air condenser

Dehydrator Filter and sight glass

High and low pressure gauges
Valve for plant vacuum, refrigerant charging and recovery
Water evaporator
Thermostatic expansion valve.

Instruments and control devices including:
Data acquisition board with USB interface
2x pressure transducers
Data Acquisition Card
Water thermostat
Water flow sensor
USB cable.

Thermomagnetic ELCB
Emergency stop button
Start button.



Laboratory Instrument India