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Product Name :
Chiller Units Training Bench With Industrial Controller

Product Code :
LBNY-0005-14100016



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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:

Air heat exchanger
Centrifugal pump
Flow switch.

Refrigeration circuit equipped with:

Hermetic compressor with protector
Thermostatic expansion valve
Dehydrator Filter and sight glass
Forced air condenser
Water evaporator

Valve for plant vacuum, refrigerant charging and recovery
High and low pressure gauges
Liquid receiver and liquid separator
Double pressure switch.

Extension module with 4x universal inputs and 4x digital outputs
PC to controller interface module with RS232 port
Cable for connection to a PC
Programming and control software

Instruments and control devices including:
Room temperature sensor with display
Active positioner
4x NTC temperature probes
Water flow sensor
2x pressure transducers
Freely configurable industrial controller including:
Software
4x analogue outputs
6x digital outputs
8x universal inputs
Plug-in display
KNX Bus connection

Thermomagnetic ELCB
Emergency stop button
Start button.



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