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Product Name :
Water To Water Heat Pump Operation Training Bench Unit

Product Code :
LBNY-0005-14100011



Description :

The Water-to-Water Heat Pump Operation Training Bench Unit has been designed and manufactured to incorporate all current safety standards.

The Water-to-Water Heat Pump Operation Training Bench Unit is designed to allow students to gain both practical and theoretical knowledge of the operation of heat pumps.

A Water-to-Water Heat Pump Operation Training Bench Unit for studying the use of heat pumps to transfer heat from one source to another.

The refrigerant used complies with anti-pollution legislation.

Experiment:

Detecting the specific thermal energy exchanged at the evaporator and condenser

Detecting the refrigerant pressures, temperatures and flow rate when the equipment is operating

Studying the operation of a heat pump

Plotting the refrigeration cycle on a p-h diagram.

Obtaining data readings and calculation of:

Ideal and actual coefficient of performance (C.O.P.)

Volumetric compression efficiency

Exchanged thermal power

Thermostatic valve superheat.

Technical Specification :

Sight glass, dehydrator filter, shut-off valves

Valve for plant vacuum, refrigerant charging and recover
1.5 HP hermetic compressor
Water condenser
Thermostatic expansion valve
Water evaporator
Liquid separator.

Full set of instruments for obtaining data readings including:

Double pressure switch
Residual current thermomagnetic circuit-breaker
Flowmeter
wattmeter
Start button
Emergency stop button
High and low pressure gauges
2x electronic thermocouples with PT100 probes that can be inserted at several test points along the hydraulic circuit.



Laboratory Instrument India