



Email : sales@laboratoryinstrumentindia.com

**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

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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**