



Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Heat Pump In Air Conditioning Training Bench

**Product Code :**  
LBNY-0005-14100017



#### **Description :**

The Heat Pump in Air Conditioning Training Bench has been designed and manufactured to incorporate all current safety standards.  
A Heat Pump in Air Conditioning Training Bench for studying the theoretical and practical aspects of the use of heat pumps in air conditioning systems.  
The refrigerant used complies with anti-pollution legislation.

#### **Experiments:**

Analysing system behaviour and reactions with the variation of condenser and evaporator air flow  
Plotting the cycle in a refrigerant pressure-enthalpy diagram  
Studying the operation of a heat pump  
Studying the operation of a cycle reversing valve.

#### **Technical Specification :**

Obtaining data readings and calculation of:  
Heat balance on air circuit at the condenser with evaluation of the heat exchange coefficient  
Heat exchange surfaces  
Ideal and actual Energy Efficiency Ratio  
Ideal and actual coefficient of performance  
Heat balance on air circuit at the evaporator  
Heat balances for the evaporator, condenser and compressor  
Refrigerant mass flow  
Volumetric compression efficiency.



**Laboratory Instrument India**