



Email : [sales@laboratoryinstrumentindia.com](mailto:sales@laboratoryinstrumentindia.com)

**Product Name :**  
Domestic Air Conditioning Training Plant

**Product Code :**  
LBNY-0005-14100030



#### **Description :**

The has been designed and manufactured to incorporate all current safety standards.  
The refrigerant used complies with anti-pollution legislation.  
A Domestic Air Conditioning Training Plant for investigating the hydraulic, mechanical and thermodynamic operation of a split-type air conditioning system.

#### **Technical Specification :**

##### **Experiments:**

Studying the operation of a split-type air conditioner  
Studying the operation of cooling and dehumidification modes  
Plant start-up and system monitoring using the protection and safety devices incorporated into the pilot plant  
Analyzing system behavior and reactions with the variation of:  
Evaporator flow rate  
ON-OFF control  
Operating mode  
Set point temperature  
Plotting the cycle in a refrigerant pressure-enthalpy diagram  
Obtaining data readings and calculation of:  
Volumetric compressor efficiency heat balances on air circuit  
Heat balances for the evaporator, condenser and compressor  
Refrigerant mass flow ideal and actual Energy Efficiency Ratio.



**Laboratory Instrument India**