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

**Product Code :**  
ENGLABINGCAG9300004



**Description :**

Domestic Air Conditioning Training Plant

**Technical Specification :**

A Domestic Air Conditioning Training Plant for investigating the hydraulic, mechanical and thermodynamic operation of a split-type air conditioning system.

The has been designed and manufactured to incorporate all current safety standards.

The refrigerant used complies with anti-pollution legislation.

**Experiments**

Plant start-up and system monitoring using the protection and safety devices incorporated into the pilot plant

Studying the operation of a split-type air conditioner

Studying the operation of cooling and dehumidification modes

Analyzing system behavior and reactions with the variation of:

Operating mode

Set point temperature

Evaporator flow rate

ON-OFF control

Plotting the cycle in a refrigerant pressure-enthalpy diagram

Obtaining data readings and calculation of:

Heat balances for the evaporator, condenser and compressor

Refrigerant mass flow ideal and actual Energy Efficiency Ratio

Volumetric compressor efficiency heat balances on air circuit



# Engineering Lab Equipment India