

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

**Product Code :**  
CHINAELABC3000005



**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 China**