

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