



Email : sales@engineeringlabequipments.com

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