

<b>Product Name :</b> Domestic Air Conditioning And Training Plant With Inverter	Product Code : ENGLABINGCAG9300010
Engineering Lab Equipments	
Description :	
Domestic Air Conditioning And Training Plant With Inverter	
Technical Specification :	
A Domestic Air Conditioning Training Unit with Inverter for inverter for inverter for inverter modynamic operation of a split-type air conditioning system	
Students investigate the refrigeration system, mechanical ope conditioning system with an inverter and understand how char efficiency.	
The demonstrates how energy can be saved by regulating constudents to diagnose. The has been designed and manufactured for safe operation is used is a which complies with current legislation.	
Experiments System start-up and system monitoring using the protection a Studying the operation of a split-type air conditioner with an in Studying the operation of cooling, de-humidification and heating	verter

ON-OFF control

Analysis of system behaviour with varying:

Operating mode

Set point temperature Evaporator flow rate Analysis of compressor speed variation against the temperature difference between set and detected temperatures Plotting the cycle on 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 (E.E.R.) Ideal and actual coefficient of performance (C.O.P.) Volumetric compression efficiency



## **Engineering Lab Equipment India**