

Product Name :
Electrolux Refrigerator Test Rig

Product Code :
NLAB-MECHANICALAB170009



Description :

Electrolux Refrigerator Test Rig

Technical Specification :

The set up demonstrates the students about the basic principal of a vapour absorption refrigeration cycle. The test rig is designed for the study of thermodynamics of vapour absorption refrigeration cycle by measuring temperature at different position.

Experimentation:

To Calculate Co-efficient of performance.

Utilities Required :

Electric Supply : Single Phase, 220 V AC, 50 Hz, 5-15 Amp. combined socket with earth connection.

Bench Area : 1.5 m x 1m

Technical Details :

Sealed Circuit: The System has no moving parts at all, which makes it Silent and very durable.

Refrigerant: Mixture of three fluid system Ammonia(NH₃) + Water (H₂O) + hydrogen (H₂)

Gases: Non-CEC, Non-HCFC, Non-FCKW, Non-Freon

Mode of System: Externally heated by electric resistance

Evaporator: Coil Type evaporator with facility to determine performance efficiency ratio (PER)

Volume of Cabinet: 41 Ltrs., Voltage Input 65 Watts, Electrical Consumption/24 Hrs.

0.8 kWh, Auto Defrost Fuzzy Logic System, Voltage

Temperature Sensor: RTD PT-100 Type.

Digital Voltmeter: 0-300 V

Digital Ammeter: 0-5 Amp.
Temperature Measurement: Digital Temperature Indicator with multi-channel switch.

Naugralabequipments

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