



Technical Description:

This set up demonstrates the students about the basic principal of a vapour absorption refrigeration cycle. The test rigid designed for the study of thermo dynamics of vapor absorption refrigeration cycle by measuring temperature at different position.

Learning Objects/Experimentation:

- To Calculate Co-efficient of performance.

Requirment For Operation:

- Electric Supply: Single Phase, 220 V AC, 50 Hz,5-15Amp.combined socket with earth connection.
- Bench Area :1.5 m x 1m

Technical Specification:

- Sealed Circuit : The System has no moving parts a tall,
- 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 Temperature
- Evaporator : Coil Type evaporator with facility to determine
- Performance efficiency ratio(PER)
- Volume of Cabinet : 41 Ltrs., Voltage Input-65Watts,
- Electrical Consumption/24Hrs.- 0.8 kWh ,Auto Defrost Fuzzy Logic System,
- Voltage- SinglePhase,220Volts,AC 50 Hz.
- Temperature Sensor : RTDPT-100 Type
- Control Panel comprises of:
- Digital Volt meter : 0-300 V
- Temperature Measurement : Digital Temperature Indicator with multi-channel switch.
- An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus
- The whole set- up is well designed and arranged on a rigid structure painted with

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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industrial PU Paint.

Control Panel:

- Standard make on/off switch, Mains Indicator etc.

Scope of Delivery:

- 1 Self-contained "ELECTROLUX REFRIGERATOR TEST RIG" Apparatus
- 1 Instruction Manual consisting of experimental procedures, block diagram etc.

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