Product Name :	Product Code :
Window Air Conditioner Test Rig	RLE-0014

Description :

Window Air Conditioner Test Rig

Technical Specification :

Range Of Experiments:

- To Study all components used in refrigeration cycle.
- To Study vapor compression refrigeration cycle.

- To determine the Refrigeration effect, Work output, Actual C.O.P, Carnot C.O.P, Theoretical C.O.P.

Specification:

- **Compressor:-** Hermetically sealed compressor having cooling capacity of (1 ton) Emerson or Equivalent.
- **Condenser:-**
  Air cooled condenser made up of copper pipe & Aluminum fins of matching capacity with fan cooling. FHP fan motor with fan blade is provided.
- **Evaporator:-** Air passed Evaporator made of copper pipe and aluminum fins of matching capacity with fan cooling.
- **Expansion device:** Capillary Tube: Dia: suitable Dia. Material: copper
- **Rota meter: -** For measuring flow rate of liquid refrigerant.
- Digital Wattmeter:for power measurement of Compressor.
- **High Pressure & low pressure Gauge, Make: -** Wika or Equivalent.

1. Range 0-300 PSI High Pressure Gauge.
2. Range: -30 to 150 PSI Compound Gauge.

- **Multipoint Temperature Indicator:** Range 0 to 250 °C, with 1°C least count using Thermocouples.
- Dry bulb and wet bulb thermometer of standard make.

Service Required:

- Single phase 230 V AC, 15 Amp supply,
- Space required: floor space 2 mtr x 1 mtr.

Features:

- Sturdy construction
- Easy to operate
- Impeccable performance

- Negligible maintenance

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