

**Product Name :**  
 Window Air Conditioner Test Rig

**Product Code :**  
 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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aluminum fins of matching capacity with fan cooling.  
~~Expansion~~ Tube Dia: suitable Dia. Material: copper

## Civil Mechanical India

**Website:** www.civilmechanicalindia.com, **Email:** export@civilmechanicalindia.com

**Address:** 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India, **Phone:** +91-0171-2643080, +91-0171-2601773