

Product Name :
Open Duct Type Air Conditioning Test Rig

Product Code :
RLE-0010



Description :

Open Duct Type Air Conditioning Test Rig

Technical Specification :

Range Of Experiments:

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

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- To determine the Refrigeration effect, Work output, Actual C.O.P, Carnot C.O.P.,
 - Theoretical C.O.P, Tonnage of refrigeration and plant efficiency.

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.
- **Air Duct:** - 300 mm X 300 mm X 1000 mm Air Duct through which openings for inlet and outlet of conditioned air is given out.
- Air passed Evaporator made of copper pipe and aluminums fins of matching capacity with fan cooling.

Capillary Tube:

- Diameter : suitable.
- Material : copper

Rota meter: For measuring flow rate of liquid refrigerant.

- Capacity: 0 to 100 LPH.

Pressure Gauges:

- Pressure Gauges 0 to 500 PSI (R-22) - 1 no.
- Compound Gauges -30 to 150 PSI (R-22) - 1nos.
- **Multipoint Digital Temperature Indicator:** To measure temperatures at various salient points of the refrigeration cycle.
- **HP/LP cut-out:** Danfoss or equivalent.
- **Refrigerants:** Primary R-22 gas, Secondary common salt solution
- **Service valve:** 1 no. Brass type.

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- **Filter / Drier:** 1 nos. Danfoss or equivalent make.
 - **Thermostat:** Ranco make or equivalent.
 - **Digital Wattmeter.**

Service Required:

Single phase 230 V AC, 15 Amp supply.

- Space required: floor space 2 mtr x 1 mtr.

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