Product name:	Product code:
Ice Plant Test Rig	RLE-0003



Description

Ice Plant Test Rig

Technical specification

Ice Plant Test Rig: Capacity: 30 Kg/day

Range Of Experiment:

- To Study all components used in refrigeration cycle.
- To Study vapour compression refrigeration cycle.
- To study the concept of Ice formation.
- 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 (3/4 ton), Make: Emerson or Equivalent
- **Evaporator**: Brine tank made of stainless steel sheets, Insulated from all sides with provision to hold cans, evaporator coil at one side & an arrangement to drain the brine solution, a door is provided at the top of this tank.
- **Condenser:** Air cooled condenser made up of copper pipe & Aluminum fins of matching capacity with fan cooling.

Expansion device:

- **Capillary Tube**: Diameter : suitable
- Material : copper
- **Rota meter:** For measuring flow rate of liquid refrigerant.
- Make: Eureka or equivalent,
- Capacity: 4.7 to 47 LPH.

Pressure Gauges:

- 0 to 300 PSI (R-22) - 1 no.
- Vacuum 30 to 150 PSI (R-22) - 1nos

Multipoint Digital Temperature Indicator: To measure temperatures at various salient points of the refrigeration cycle.

Sub Zero.

- **Digital Watt meter:**
- **Ice making capacity**: 30-kg/ day.
- **Refrigerants:** Primary R-22 gas, Secondary common salt solution

- **Service valve:** 3 nos. Brass type.
- **Filter / Drier:** 1 nos. Danfoss or equivalent make.
- **Thermostat:** Ranco make or equivalent.
- **Sight Glass:** standard.

Service Required:

- Single phase 230 V AC, 15 Amp supply.
- Common salt and corrosion inhibitors for preparation of brine.
- Space Required: - 2.5 m X 2 m with good ventilation.

Product Details:

weight	1000 kg approx

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Ice Plant Test Rig. It is used 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. The offered rig is manufactured using high grade raw material and contemporary technology. We assure our clients that our rig is quality tested on predefined parameters, in order to meet industry standards. Apart from this, our prestigious clients can avail this rig, as per their needs, at highly competitive price.

Features:

- Sturdy construction
- High performance
- Enhanced durability