

**Description :**

Cascade Refrigeration IS A SYSTEM which employs 2 or more individual refrigeration cycles operating at different temperatures and pressures. This test rig is used to find the COP of individual Refrigeration cycle. The offered rig is manufactured by utilizing high grade raw material and advance technology by our skilled engineers. Apart from this, our rig is tested on various parameters in order to ensure its sturdiness and quality.

REQUIRMENT FOR OPERATION:

- Electric supply 5A-220 V AC
- Water supply and drainage
- Floor area : 1.5 m x 1m

TECHNICAL SPECIFICATION:

- High Pressure Side Compressor: Hermetically sealed compressor
- having cooling capacity of (3/4 ton), Make: Emerson/Kirloskar.
- Low Pressure Side Compressor: Hermetically sealed compressor
- having cooling capacity of (1/4 ton), Make: Emerson or Equivalent.
- Evaporator: Copper Coil immersed in insulated water tank (shell)
- of stainless steel water tank, Capacity of 75 liters.
- Agitator: Compatible capacity.
- Condenser: Air-cooled condenser with copper fins. This is a tube
- type condenser, FHP fan motor with fan blade is provided.
- Cascade Condenser: Tube and Tube type Condenser with copper tubes.
- Expansion device: 2 Nos.

Capillary Tube:

- Diameter : Suitable
- Material : copper

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



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- Rota meter: 2 No, for measuring flow rate of liquid refrigerant.
- Refrigerant: (R-22) & (R-404a).
- Pressure Gauges: 2 Nos.

Control Panel comprises

- Digital Voltmeter: 0-300 V
- Digital Ammeter: 0-5 Amp.
- Multipoint Digital Temperature Indicator: 2 No, to measure temperatures at various salient points of the refrigeration cycle.
- HP/LP cut-out: 2 No. Danfoss or equivalent.
- Service valve: 4 nos. Brass type.
- Filter / Drier: 2 nos. Danfoss or equivalent make.
- Instruction Manual : An ENGLISH instruction manual will be provided along with the Apparatus
- All the accessories will be mounted on a rigid base frame made of M.S. and it will be powder coated.

Control Panel:

- Standard make on/off switch, Mains Indicator etc

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