

Product Name :
Cold Storage Plant

Product Code :
EEZ0029



Description :

Cold Storage Plant

Technical Specification :

Range Of Experiments

- To study all components used in refrigeration system.
- To study the Vapor compression Refrigeration cycle.

To study the concept of Cold Storage.

To determine the Refrigeration Effect, Work Input, Actual C.O.P., Carnot C.O.P., Theoretical C.O.P., Relative C.O.P., Ton of Refrigeration, and Plant Efficiency.

Experimental Setup :

- Compressor : Hermetically sealed compressor.

Condenser : water Cooled condenser made out of copper coiled pipe & pressurised water shower of matching capacity with fan cooling.

Storage Room : 4 Ft x 4 Ft x 4 Ft with double wall insulated. Suitable small door for the cold storage.

Evaporator : Air passed evaporator made out of copper pipe & Aluminum fins of matching capacity with fan cooling.

Expansion device : Thermostatic expansion valve (Danfoss make).

Energy Meter : For power measurement of compressor.

Pressure Gauge : 2 Nos. for H.P., L.P. measurement

Suitable filter/drier.

Hand Shut Off type Service valve.

Rotameter for Refrigerant flow measurement.

Set of thermocouples.

Control Panel :

- 12 Channel Digital Temperature Indicator

HP-LP Cutout : Make Ranco /Danfoss or Equivalent.

Switches : For compressor, condenser fan, & air circulating blower water Pump.

Voltmeter : 0 – 500 V.

Ammeter : 0 – 15 A.

Thermostat : Ranco or equivalent

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