Product name:	Product code:
Cold Storage Plant	EEZ0029



Description

Cold Storage Plant

Technical specification

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

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, Heat Rejection, C.O.P., Ton of Refrigeration, and Plant Efficiency.

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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