Product name:	Product code:
Water Chilling Plant	EEZ0031



Description

Water Chilling Plant

Technical specification

- 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.
- Voltmeter : 0 – 250 V.
- Ammeter : 0 – 15 A.
- Thermostat : Ranco or equivalent

Water Chilling Plant Manufacturer

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Range Of Experiments

- To study all components used in refrigeration system.
- To study the Vapor compression Refrigeration cycle.
- 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 : Air Cooled condenser made out of copper pipe & Aluminum fins of matching capacity with fan cooling.
- Evaporator : Copper Coil Limpeted water jacket. The evaporator is insulated from outside to prevent heat loss.
- Expansion device : Capillary Tube.