



Description :

The set up demonstrates the students about the basic principal of a refrigeration cycle. The test rig is designed for the study of thermodynamics of vapour Compression refrigeration cycle by way of demonstration and experimentation. It has a facility to measure various parameters for experimentation.

REQUIRMENT FOR OPERATION:

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

SPECIFICATION:

- Compressor: Hermitically sealed compressor. Capacity 1/3 Ton, Kirlosker make.
- Agitator: Compatible capacity.
- Condenser : Air cooled compatible to 1/3 Ton compressor
- Condenser cooling fan: Compatible capacity with permanent lubricated motor.
- Evaporator: Made of Stainless Steel, Insulated with ceramic wool/P.U.F.
- Rota meter : Make Eureka Range 6 to 60 LPH
- Expansion Device: Capillary Tube, Compatible Capacity.
- Pressure Gauges: 2 Nos.
- Safety Control: overload and over current protectors for compressor and Time delay circuit.
- Temperature Sensor: RTD PT-100 Type.
- Control Panel comprises of:
 - Digital Voltmeter: 0-300 V
 - Digital Ammeter: 0-5 Amp.
 - Temperature Measurement: Digital Temperature Indicator with multi-channel switch.
- Instruction Manual : An ENGLISH instruction manual will be provided along with the Apparatus
- All Other accessories like Hand shut off valves, filter drier and Thermostat will be provided.
- All the accessories will be mounted on a rigid base frame made of M.S. and it will be powder coated

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



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