

Product Name :
Refrigeration Test Rig**Product Code :**
ALABS-A104-115**Description :****Refrigeration Test Rig**

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.

Experimentation:

- To calculate refrigerant capacity.
- To Study the Vapour Compression refrigerator cycle.
- To Calculate Co-efficient of performance and draw P-H Diagram.

Utilities Required :

- Electric supply 5A-220 V AC

- Water supply and drainage
- Floor area : 1.5 m x 1m

Technical Details :

Compressor Hermetic sealed compressor.Capacity 1/3 Ton, Kirloskar make.

Agitator variable capacity.

Condenser compatible to 1/3 Ton compressor

Compressor Cooling fan permanent lubricated motor.

Evaporator Stainless Steel, Insulated with ceramic wool/P.U.F.

Refrigerant 60 LPH

Expansion Device compatible Capacity.

Pressure Gauges

Control overload and over current protectors for compressor and Time delay circuit.

Temperature Sensor

Control Panel comprises of

Digital Voltmeter



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