

**Product Name :**  
Refrigeration Test Rig

**Product Code :**  
NLAB-MECHANICALAB170007



**Description :**

Refrigeration Test Rig

**Technical Specification :**

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: Hermetically sealed compressor.Capacity 1/3 Ton, 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.

Rotameter: 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

## Naugralabequipments

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