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Manufacturers & Exporters of Engineering, Scientific & Laboratory Equipments

AIR CONDITIONING TEST RIG (EE-1598)

The Air Conditioning Test rig works on simple vapour compression refrigeration cycle and uses R22 as a refrigerant. It is environment friendly. The experimental Air conditioning test rig consist of a compressor unit, condenser, evaporator, cooling chamber, controlling devices and measuring instruments those are fitted on a stand and a control panel. Hermetically sealed compressor is fitted on stand with the help of flexible foundation bolts to minimize vibrations. The system is fabricated such that students can observe and study vapor compression cycle, its component principle & working. The arrangement of parts such that, all the parts are visible and working can be easily understood.

SCOPE OF EXPERIMENTATIONS:

To study about the Air conditioning test rig.

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To determine the coefficient of performance of Air conditioning Test rig.

UTILITIES REQUIRED:

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Water Supply. Drain Electricity 220V AC, Single Phase. Space required: 2 x 2 m.



TECHNICAL SPECIFICATIONS:

- Compressor
- Condenser
- Condenser fan
- Expansion Device
- Evaporator
- Evaporator fan
- Refrigerant
- Pressure Indication
- Temperature Sensors
- Control panel

- Hermetically sealed, Standard make (1/2 Ton)
- Forced convection Air cooled
 - Axial flow type (Standard make)
- : Capillary Tube
 - Forced convection Air cooled type
 - Axial flow type(standard make)
 - R22 Type
 - 2 No.s dial type pressure gauges. One fitted at suction side and another at discharge side
 - RTD PT-100 type (6Nos.)
 - Digital Voltmeter: 0-300 Volt.
 - : Digital Ammeter: 0-2 Amp.
 - Digital Temperature Indicator: 0-300°C
 - (With multichannel switch)
 - On/Off switch, Mains Indicator etc

• The whole set-up is well designed and arranged on a good quality painted structure.