

Product Name :
Air Conditioning Test Rig

Product Code :
NLAB-MECHANICALAB420001



Description :

Air Conditioning Test Rig

Technical Specification :

The Air Conditioning Test Rig unit is required to conduct experiments and demonstrate the process of cooling of atmospheric air. The unit will be fitted with all instruments facilities so that temperature, pressure etc. may be measured at different points in the air conditioning system.

EXPERIMENTATION:

To study the Vapour Compression air conditioning cycle.

To Calculate Co-efficient of performance- (COP) by the use of P-H diagram.

UTILITIES REQUIRED:

Electric supply Single Phase, 220 V AC, 50 Hz., 10 Amp.

Floor area : 2 m x 1m

TECHNICAL DETAILS:

Compressor: Hermitically sealed compressor.

Capacity 1 Ton, Kirlosker make.

Condenser : Air cooled compatible to 1 Ton compressor

Condenser Coolingfan: Compatible capacity with permanent lubricated motor.

Pressure Gauges: 2 Nos.

Evaporator: Compatible to 1 Ton, made of copper tube and aluminium fins fitted with compatible capacity fan.

Safety Control: over load and over current protection for Compressor with Time delay circuit.

Expansion Device: Capillary Tube compatible capacity.

Temperature Sensor: RTD PT-100 Type.

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, Pressure gauges will be provided.

All the accessories will be mounted as rigid base frame made of M.S. and it will be powder coated.

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