

ETHER ENGINEERS

52, Industrial Estate, Ambala Cantt - 133006 Mb: 098963 33447, 098961 33557, 090340 83447 Website: www.etherenaineers.com

Email: etherengineers@rediffmail.com, info@etherengineers.com

Manufacturers & Exporters of Engineering, Scientific & Laboratory Equipments

WINDOW AIR CONDITIONING TEST RIG (EE-1599)

The Window Air Conditioning Test rig works on simple vapour compression refrigeration cycle and uses R32 as a refrigerant. It is environment friendly. The experimental Window Air conditioning test rig consist of a compressor unit, condenser, cooling chamber, Capillary expansion controlling device and measuring instruments those are fitted on a stand and a control panel. 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 Window Air conditioning test rig.

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

UTILITIES REQUIRED:

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



TECHNICAL SPECIFICATIONS:

Compressor : Hermetically sealed, Standard make (1 Ton)

Condenser
 Condenser fan
 Forced convection Air cooled
 Axial flow type (Standard make)

Expansion Device : Capillary Tube

Evaporator
 Evaporator fan
 Forced convection Air cooled type
 Axial flow type(standard make)

Refrigerant : R32 Type

Pressure Indication : 2 No.s dial type pressure gauges. One fitted at suction

side and another at discharge side

Temperature Sensors
 Control panel
 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.