

Product Name : " Study Bench OF Spilt Domestic Air Conditioning "
Product Code : " SBSB 11 "



Description :

DESCRIPTION :- 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. Hermetic compressor of 1Ton Forced air condenser 1500 m³ / h. Capillary-tube refrigerant regulation system & Adjusting the temperature using remote control operation .

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	Description
Compressor	Hermitically sealed compressor
Condenser	Air cooled compatible to 1 Ton compressor
Condenser Cooling fan	Compatible capacity with permanent lubricated motor.
Pressure Gauge	2 Nos.
Evaporator	Made of copper tube and aluminum fins fitted with comp capacity fan
Safety Control	Over load and over current protection for compressor with delay circuit
Expansion Device	Capillary Tube compatible capacity
Temperature Sensor	RTD PT-100 Type