

Product Name :
Window Air Conditioner Test Rig

Product Code :
ASTRALAB-SUPPLYA21031



Description :

Window Air Conditioner Test Rig

Technical Specification :

The window AC is fixed in a rigid angle frame, with its cover cut half open to reveal the internal parts of the AC. The Window AC test rig is designed and manufactured such that the students can understand construction and working of a window type air conditioner and conduct the trial on it to evaluate performance of the same. The required pressure and temperature tapings are drawn for measurement of pressures and temperatures at salient points. Energy meter is provided for recording compressor energy consumption. With the help of manometer,

velocity of air and consequently the flow rate of air can be determined. A sling psychrometer is provided for measurement of inlet and outlet Dry-bulb & wet bulb temperature.

Capacity: 1.0 TR at rated test conditions.

Condenser fan: Axial flow type.

Evaporator: Forced convection air cooled.

Evaporator fan: Centrifugal type

Compressor: Rotary type; Hermetically sealed.

Condenser: Forced convection air cooled

Drier/ filter: Molecular sieve type.

Expansion device: Capillary Tube

Temperature: Sling Psychrometer for air temperatures & Digital Indicator for refrigerant temperatures.

Velocity: By inclined tube manometer

Rated current: 6.0 Amps.

Energy-meter: Provided for compressor.

Material Panel: 1.2 mm thick CRCA.

Pressure: Pressure gauges 2 Nos at suction & discharge

Supply: 220-240 Volts, 50 Hz, 1 phase.

Input power: 1.2 kW

Outer finish: Powder coating.



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