

Product Name :
Vapour Compression Refrigeration Trainer

Product Code :
RLE-0019



Description :

Vapour Compression Refrigeration Trainer

Technical Specification :

Product Details:

Hermetically Sealed

Expansion Device

Flow Tube Rotameter for Refrigerant Flow

Pressure Gauge

Control Valve

Electric Heater

Digital Voltmeter

Digital Ammeter

The vapor compression refrigeration trainer is designed to analyze the performance of Vapor Compression Refrigeration Cycle. The trainer consists of a hermetically sealed compressor, air-cooled condenser, expansion device & coiled evaporator. The evaporator coil is immersed in a water tank fitted with the electric heater. The heater load is controlled by a dimmer. CFC Free refrigerant R134a is used in the trainer.

The measuring instruments are provided to measure Temperature & pressure of refrigerant cycle, Refrigerant Flow, Power Supplied to compressor & Heater Load.

EXPERIMENTAL CAPABILITIES:

- Demonstration of Vapor Compression Refrigeration Cycle.
- Calculation of coefficient of performance of Refrigeration Cycle

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- Plotting Pressure-Enthalpy Diagram.
 - Water Circulating Pump
 - Temperature Sensors: Pt 100 temperature sensors – 5
 - Nos. Temperature Indicator: 8 Channel Indicator with Selector Switch, Range 0-199.9 °C
 - Frame: Made of M.S. Square Tubes & Sheets, Welded & Powder coated.

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