

Product Name :
Vapour Compression Refrigeration Trainer

Product Code :
NEGEMG147



Description :

Vapour Compression Refrigeration Trainer

The vapor compression refrigeration trainer is designed to analyze 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 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
- Plotting Pressure-Enthalpy Diagram

SPECIFICATIONS:

- Compressor: Hermetically Sealed, Capacity $\frac{1}{4}$ Ton, 230 V AC.
- Condenser: Finned Copper Tube Condenser with condenser fan & motor
- Evaporator: Coiled Evaporator immersed in Water
- Expansion Device: Capillary Tube
- Flowmeter: Glass Tube Rotameter for Refrigerant Flow
- Pressure gauge: 0 to 300 PSI
- Compound gauge: -30 to 150 PSI
- Water Circulating Pump
- Electric Heater: Capacity 1 kW, Supply 230 V AC
- Dimmer: Range 0-250 V AC, 4 A
- Digital Voltmeter: Range 0-500 V AC
- Digital Ammeter: Range 0-5 A AC
- 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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