

Product Name :
Heat Pump Trainer

Product Code :
NEGEMG150



Description :

Heat Pump Trainer

The Heat Pump Trainer is designed to study working of Heat Pump & analyze performance of Vapor Compression Refrigeration Cycle. The trainer consists of a hermetically sealed compressor, Water Cooled Condenser, expansion device & water evaporator. CFC Free refrigerant R134a is used in the trainer.

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

EXPERIMENTAL CAPABILITIES:

- Demonstration of Heat Pump Cycle.
- Calculation of coefficient of performance of Refrigeration & Heating Cycle.
- Plotting Pressure-Enthalpy Diagram.

SPECIFICATIONS:

- Compressor: Hermetically Sealed, Capacity ¼ Ton, 230 V AC.
- Condenser: Water Cooled Condenser, Shell & Tube Type
- Evaporator: Water Evaporator, Tube in Tube Type
- Expansion Device: Capillary Tube
- Refrigerant Flowmeter: Glass Tube Rotameter for Refrigerant Flow
- Water Flowmeter: For measuring Condenser & Evaporator Water Flow – 2 Nos.
- Pressure gauge: 0 to 300 PSI
- Compound gauge: -30 to 150 PSI
- Temperature Sensors: Pt 100 temperature sensors – 8 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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