

Product Name :
Heat Pump Trainer

Product Code :
RLE-0021



Description :

Heat Pump Trainer

Technical Specification :

Product Details:

Hermetically Sealed

Material of M.S. Square Tubes & Sheets, Welded & Powder coated.

Capacity

Power

Water Cooled Condenser, Shell & Tube Type

Water Evaporator, Tube in Tube Type

Expansion Device

Refrigerant Flow Rotameter for Refrigerant Flow

High Pressure Gauge

Compound Gauge

The Heat Pump Trainer is designed to study the working of Heat Pump & analyze the 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 the compressor.

EXPERIMENTAL CAPABILITIES:

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

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