Product name:	Product code:
Vapour Compression Refrigeration Trainer	RLE-0019



Description

Vapour Compression Refrigeration Trainer

Technical specification

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.
- 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.

Product Details:

Compressor	Hermetically Sealed
Expansion Device	Capillary Tube
Flowmeter	Glass Tube Rotameter for Refrigerant Flow
Pressure gauge	0 to 300 PSI
Compound gauge	-30 to 150 PSI
Electric Heater	Capacity 1 kW
Digital Voltmeter	Range 0-500 V AC
Digital Ammeter	Range 0-5 A AC

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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.