



Tesca Industrial Refrigerator with Hermetic Compressor Trainer 32417 consists of industrial refrigeration components completely factory assembled and wired. It is designed to provide training with larger commercial and industrial refrigeration systems which require water-cooled condensers (tube-in-tube and shell-in-tube), electric and hot gas defrost systems, cooling towers, hot bypass capacity control systems, crankcase pressure regulators, crankcase heaters and pressure pumps.

The Industrial Refrigeration Trainer consists of the following:

- Hermetic compressor, 0.5 HP, 220 V single phase, 50/60 Hz
- Air-cooled condenser with electric fan
- Air-cooled evaporator with electric fan
- Thermostatic expansion valve
- Filter
- Liquid separator
- Hot gas defrosting valve
- Solenoid valve
- No. 5 manually operated valves for fault simulation
- Vice, 80 mm

The instruments should consist of the following:

- Thermostat
- Low pressure gauge
- High pressure gauge

- Thermometer
- Differential pressure switch
- Sight glass

Experiment possibilities

- Properties of Matter
- Temperature and Heat Energy
- Refrigerants
- The Refrigeration Cycle
- Pressure-Enthalpy Charts
- Heat Transfer
- Refrigerant Oils
- Leak Detection
- Removing Refrigerant from a System
- Charging a Refrigeration System
- Liquid Control Devices-Thermostatic Expansion Valve
- Pressure Controls

Services Required

- 240 AC 1Ø 50Hz 20A with ground
- A source of flowing water
- A drain to sewer

Note: Specifications are subject to change.

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