



Product Description

The **Refrigeration Training System** is designed for educational and technical training purposes, enabling students to master both theoretical knowledge and practical skills related to the standard refrigeration cycle.

The system allows observation of refrigerant behavior through **transparent sections** in the refrigerant lines—making it possible to visually study the phase changes of the refrigerant from gas to liquid as it passes through different components.

Multiple **temperature and pressure gauges** are strategically installed to help students better understand system performance, operating parameters, and the thermodynamic processes of the refrigeration cycle.

Power Supply: 240 V AC, 50 Hz, Single Phase, 560 VA

Features

- Transparent refrigerant flow sections for clear visual observation of phase transitions.
- Comprehensive pressure and temperature measurement points for real-time parameter analysis.
- Integrated safety features for reliable and secure operation during training.
- Designed for hands-on demonstration of the complete refrigeration cycle, including compression, condensation, expansion, and evaporation processes.
- Suitable for technical institutes, vocational schools, and research laboratories.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



Export Sales: +91-9829132777
India Sales: +91-9588842361



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Product Composition

No .	Name of Component	Specifications	Quantity
1	Hermetic Compressor	1/2 HP, Single Phase 220V, Complete with control box	1 piece
2	Condenser	Air-cooled type, Single Phase 220V, including copper tube with fixed sight glass transparent chamber	1 piece
3	Evaporator	Tube air-cooled type with transparent chamber and damper	1 piece
4	Accumulator	1/2 HP, copper tube with fixed sight glass	1 piece
5	Expansion Valve	Manual expansion valve (welding type)	1 piece
6	Electronic Valve	3/8" nut clamp type or welding type	1 piece
7	Filter Dryer	3/8" nut clamp type or welding type	1 piece
8	Sight Glass	Welding type or nut clamp type	1 piece
9	Digital Thermometer	Temperature control type	1 piece
10	High-Low Pressure Switch	Includes both Low Pressure Switch (LPS) and High Pressure Switch (HPS)	1 piece
11	Safety Device	Includes overvoltage blocking (N.F.B), buzzer, and fuse protection	1 piece
12	Manometer	High-pressure and low-pressure gauges	1 piece

Power Requirements

- **Supply Voltage:** 240 V AC
- **Frequency:** 50 Hz
- **Phase:** Single-phase
- **Power Consumption:** 560 VA

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