

Product Name : " REFRIGERATION TRAINING SYSTEM "
Product Code : " R.A.C 12 "

DEMO



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Description :

REFRIGERATION TRAINING SYSTEM:-

AIM:-

Familiarisation with the layout of refrigeration systems:-

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- Familiarisation components of refrigeration with the main systems.
 - Measuring relevant temperatures and pressures.
 - Cyclic process on a p-h state diagram.
 - Determining the coefficient of performance

INTRODUCTION:-

Refrigeration is the branch of science that deals with the process of reducing and maintaining the temperature of a space of material below the temperature of the surrounding. Heat must be removed from the body being refrigerated and transferred to another whose temperature is below that of the refrigerated body.

TECHNICAL SPECIFICATION:-

The system is designed for the demonstration of the cyclic process on the p-h state diagram. The experimental set-up is clearly laid out on a metal panel. The use of commercially available components ensures a high degree of relevance to practice. A closed hot water circuit with electrical heater is used as a cooling load for the evaporator. The condenser is air-cooled. Electronic sensors provide measured values that are indicated on digital displays.

Specification

1. Mobile functional model of a refrigeration system.
2. PC data acquisition with software.
3. Hermetic piston compressor.
4. Coaxial evaporator.
5. Closed warm water circuit with tank, heater and circulating pump as cooling load.
6. Condenser with fans.
7. Digital displays indicating flow, temperature and pressure.
8. Refrigerant R134a, CFC-free.