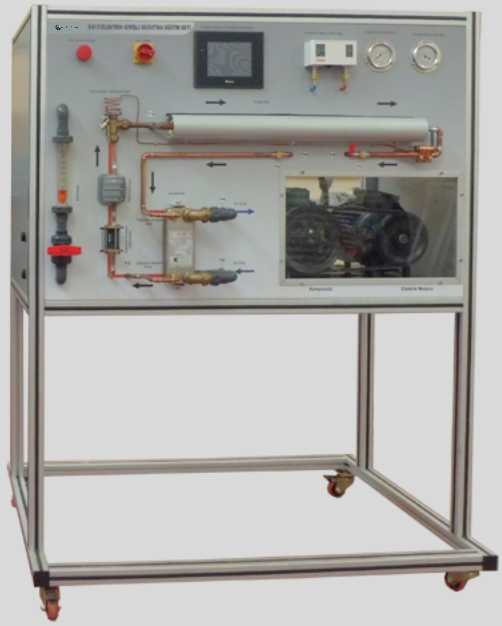
COOLING SYSTEMS

S-813 ELECTRICAL INPUT TYPE REFRIGERATION TRAINING SET



GENERAL EXPLANATION

This training set is used for the applications of the cooling technique courses and for the laboratory lessons.

EXPERIMENTS

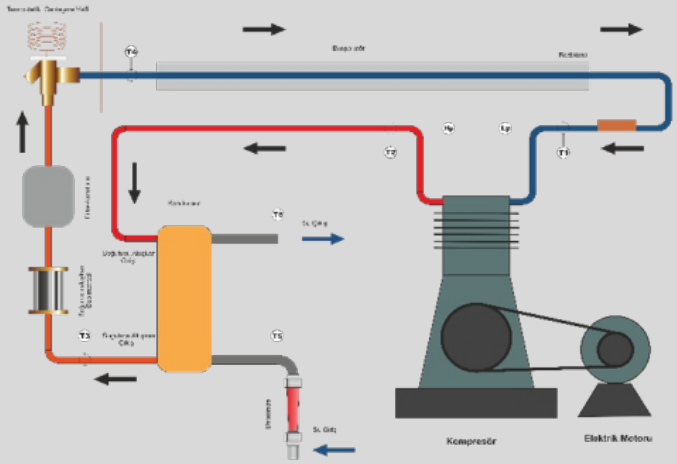
1. Steam compression cooling application and pH diagram drawing experiment
2. Experiment to establish an energy balance for the cooling system
3. Experiment to examine changes in the cooling load of the cooler depending on different evaporation temperatures
4. Investigation of changes in cooling efficiency coefficient (COP) depending on different evaporation and condensation temperatures
5. Experimental study of heating effect coefficient (COP) at different condensation temperatures
6. Examine the amount of heat given to the cooling water depending on the variation in condensation temperature
7. Experiment to examine the effect of different compression ratios on compressor volumetric efficiency
8. Experimental investigation of the characteristics of the thermostatic expansion valve
9. Determination of the thermal conductivity value of the condenser cooling coil

DIMENSIONS

A x B x H : 1200 x 580 x 1500 mm

TECHNICAL SPECIFICATION

In this training set, the compressor is driven externally by electric motor and plate condenser is used. The p-h diagram of the R134-a refrigerant can be examined.



TECHNICAL DETAILS

- Open type externally driven compressor
- Nested plate condenser
- Evaporator unit
- Electric evaporator resistance
- Thermostatic expansion valve
- Combined pressure switch
- Tork meter
- Digital revolution indicator
- Digital multimeter
- Digital temperature measurement from 6 different points

OPTIONAL FEATURES

- Touch LCD Display
- USB Computer Connection
- Computer Control

PACKAGE INCLUDED

Device, device cover, 1 printed experiment report, circuit diagram and product catalog