AIR CONDITIONING

K-215 AIR TO WATER TYPE HEAT PUMP TRAINING SET

GENERAL EXPLANATION

This training set is prepared for the application of air-water heat pumps.

EXPERIMENTS

1. Calculation of the efficiency (performance) coefficient
2. Experiment of preparing heat pump efficiency curves using different sources and temperatures
3. Comparison of ideal and practical cycles on the p-h diagram and experiment of determining the energy balances for the condenser and compressor
4. Drawing heat pump efficiency curves based on R-134A characteristics at various condensation temperatures
5. Experiments to compare ideal and practical cycles on the p-h diagram
6. Experiments on the effect of compressor compression ratio on volumetric efficiency

DIMENSIONS

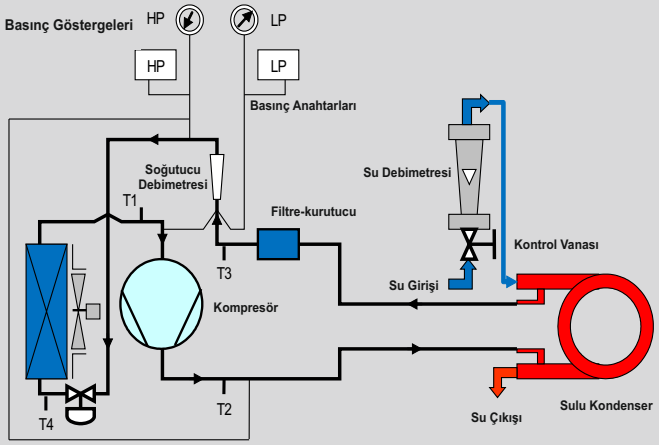
A x B x H : 1100 x 680 x 1380 mm

OPTIONAL FEATURES

- Touch LCD Display
- USB Computer Connection
- Computer Control

TECHNICAL SPECIFICATION

The heat pump is a thermodynamic cycle designed to perform heating and cooling functions. The aim is to achieve heat transfer from a low temperature environment to a high temperature atmosphere, in other words, to reverse the heat transfer direction. The heat pump basically consists of condenser, expansion valve, evaporator and compressor elements.



TECHNICAL DETAILS

- Hermetic reciprocating compressor
- Forced air winged evaporator
- Evaporator fan axial fan
- Water condenser with nested pipe
- Rotameter type water flowmeter
- Digital temperature measurement from 6 different points

PACKAGE INCLUDED

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