

GENERAL EXPLANATION

This training set has been prepared for the application of air-to-air heat pumps.

EXPERIMENTS

1. Comparison of ideal and practical cycles via p-h diagram and determination of energy balances for condenser-compressor
2. Calculation of the heating efficiency coefficient (COP)
3. Calculation of the cooling efficiency coefficient (COP)
4. Change of COP values at different condensation temperatures
5. Calculation of condenser heat conductivity value

DIMENSIONS

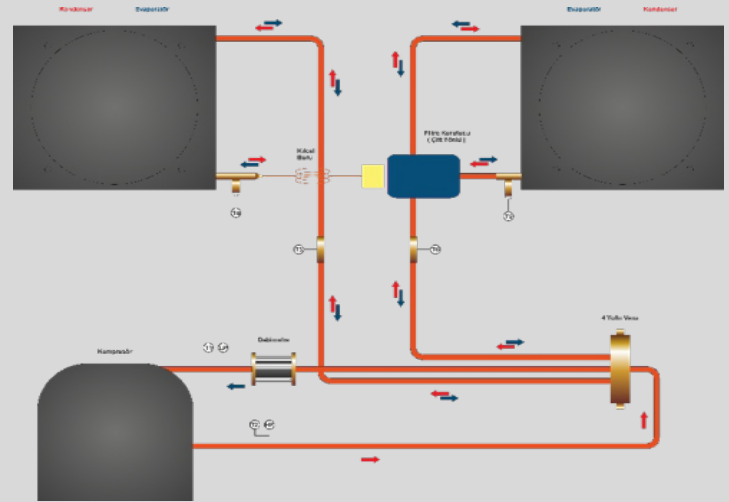
A x B x H : 1280 x 600 x 1500 mm

OPTIONAL FEATURES

- Touch LCD Display
- USB Computer Connection
- Computer Control

TECHNICAL SPECIFICATION

Air-source heat pumps are used as an energy source for outside exhaust (waste) air heating, cooling or hot water. Heat dissipation is often done with the help of a hydraulic distribution system or with a fan. Air temperature varies throughout the year. Therefore, it is impossible to give a definite COP value for airborne devices.



TECHNICAL DETAILS

- Hermetic compressor
- R134A refrigerant
- Evaporator with fan
- Fan-shaped lamellar condenser
- Bi-directional filter dryer
- Turbine type flow meter with digital output
- Temperature measurement from 4 different points

PACKAGE INCLUDED

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