



GENERAL EXPLANATION

This training set is designed to support theoretical topics and calculations in high schools and faculty in heat exchangers and heat transfer courses. Numerous parallel heat exchangers and counterflow experiments have been carried out.

EXPERIMENTS

Calculation of the capacity and total heat transfer coefficient according to the heat exchanger types:

1. Parallel flow internal tube
2. Counterflow internal pipe
3. Parallel flow shell and tube type
4. Counterflow shell and tube type
5. Parallel flow plate heat exchanger
6. Counterflow plate heat exchanger

OPTIONAL FEATURES

- Touch LCD Display
- USB Computer Connection
- Computer Control

TECHNICAL SPECIFICATION

Parallel and counterflow experiments are performed with a large number of different types of heat exchangers. Heat exchangers; surface tube type, in-pipe and plate heat exchanger and many similar heat exchangers. The installation fluid can direct the desired heat exchanger with the valves and the direction of the fluid can be changed. The heat is produced by the heater with a 2kW power supply in the heater tank. Temperature is measured by input-output temperature sensors of the system where heat is generated and transmitted.

TECHNICAL DETAILS

- Parallel flow inner tube
- Counterflow internal pipe
- Parallel flow surface and pipe type
- Counterflow surface and pipe type
- Parallel flow plate heat exchanger
- Counterflow plate heat exchanger

DIMENSIONS

AxBxH : 1100 x 600 x 1250 mm

PACKAGE INCLUDED

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