HEAT TRANSFER

HT-357 HEAT TRANSFER IN BUILDING MATERIALS TRAINING SET



GENERAL EXPLANATION

This training set is designed to calculate the heat conduction coefficient in building materials in a practical way.

EXPERIMENTS

- 1. Calculation of thermal conductivity coefficient of different materials
- 2. Calculation of thermal resistance of different materials
- 3. Heat transfer with different samples connected in series
- 4. Calculation of the coolant temperature

DIMENSIONS

Device dimensions

A x B x H : 410 x 390 x 560 mm

Panel dimensions

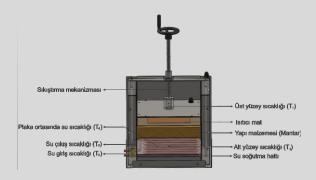
A x B x H : 445 x 415 x 485 mm

OPTIONAL FEATURES

- Touch LCD Display
- USB Computer Connection
- Computer Control

TECHNICAL SPECIFICATION

The hot plate is heated with an electric heating mat. In cold plate, the temperature is provided by water cooling. The sensors measure the temperatures in the inlet and outlet of the cooling water and in the middle of both plates. The hot plate at the top of the sample and the temperatures for the cold plate at the bottom of the sample are adjusted using the software provided. Temperature control system provides constant temperature. The heat flow between the hot plate and the cold plate passes through the sample and is measured by a special heat flow sensor. The entire housing including the cover is thermally insulated to ensure stable ambient conditions.



TECHNICAL DETAILS

- 6-point temperature measurement
- 500W heater
- 8 different test samples
- Adjustable temperature

PACKAGE INCLUDED

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