

HERMOMETRY

CONTACT HEAT DEVICE – CHD

EN ISO 12127-1



USB interface with multifunction data acquisition module

Laptop with pre-installed software DIN EN ISO 12127-1, MCC-DAQ, MS Windows 10

Operating manual, English

TECHNICAL DATA

Rack (W x d x h): 620 x 752 x 410 mm*

Control unit (W x d x h): 471 x 108 x 271 mm*

Weight: approx. 50 kg*

Travel linear unit: 90 mm

Contact temperature: 100 -500 °C

SUPPLIES

Electrical current 230 VAC 50/60 Hz, 300 VA

SCOPE

The test device enables the evaluation of heat transfer properties of clothing material used for protective clothing for protection against heat and flames.

PRINCIPLE

In this test method a heating cylinder is brought into contact with a sample of the clothing material to be tested.

The heating cylinder is heated to the respective contact temperature and maintained at this temperature. A sample of the material to be tested is placed on the calorimeter. Then the calorimeter together with the material sample is moved at a constant speed towards the heating cylinder. A temperature curve is recorded by the calorimeter. The threshold time is determined from the temperature curve of the calorimeter.

FEATURES

Device control and data recording by laptop.
Electrical calorimeter travel.

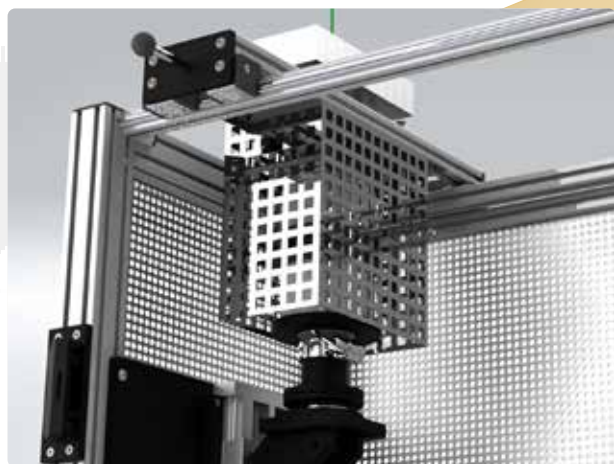
COMPONENTS

Rack with housing, glazed door and hinge switch
Heating cylinder incl. housing with:

- ◆ Mantle thermocouple TYPE-K
- ◆ Puncheon made of silver alloy
- ◆ Heating element ERSA Type 201
- ◆ Heat insulation with heat resistant wool
- ◆ Linear guide with add-on weight

Calorimeter with thermocouple TYPE-K and linear spindle drive

Control unit with power supplies and power controller for heating cylinder



* Our products are constantly being developed. For this reason the actual dimensions may vary. © 01/2021