

Protective Clothing Heat Conduction Tester

This device heats a tube to a specified temperature before mounting a sample on the calorimeter. The calorimeter moves to the heating cylinder at 5 mm/s under a 45 N load, measuring the time for a 10°C temperature rise.



Overview

Precision Thermal Protection Testing

This advanced conduction tester is engineered to evaluate the thermal protection performance of protective clothing and specialized materials. It precisely measures heat transfer flux when materials are exposed to controlled heat sources, ensuring critical safety standards are met. The system features automated calorimeter movement and load application, providing highly repeatable and reliable data for fire-resistant and high-temperature apparel development.

Technical Specifications

Key Operating Parameters

5 mm/s Movement Speed	45 N Contact Load	500 °C Max Temperature
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Compliance Standards	DIN EN 702, ISO 12127-1
Power Requirements	230 VAC / 350 VA
Required Gas Source	Oxygen / Acetylene

Dimensions and Weight

Equipment Dimensions

Attribute	Value
Width	600 mm
Depth	250 mm
Height	650 mm
Weight	30 kg