

# 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

|                                 |                             |                                  |
|---------------------------------|-----------------------------|----------------------------------|
| <b>5 mm/s</b><br>Movement Speed | <b>45 N</b><br>Contact Load | <b>500 °C</b><br>Max Temperature |
|---------------------------------|-----------------------------|----------------------------------|

|                             |                         |
|-----------------------------|-------------------------|
| <b>Compliance Standards</b> | DIN EN 702, ISO 12127-1 |
| <b>Power Requirements</b>   | 230 VAC / 350 VA        |
| <b>Required Gas Source</b>  | Oxygen / Acetylene      |

## Dimensions and Weight

### Equipment Dimensions

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