

Thermal Protective Clothing Tester

This equipment exposes protective material to heat from a flame. It determines the fire resistance of textiles, firefighting supplies, and other materials.



Overview

Precision Thermal Evaluation

This convection heat source performance tester is designed to evaluate the fire resistance and thermal insulation properties of fabrics and protective materials. By exposing samples to a controlled propane burner flame at a heat flux of 80 kW/m², the system accurately measures heat transfer performance. Equipped with automated pneumatic controls and software-driven data analysis, it provides precise metrics for safety compliance and material testing.

Technical Parameters

Performance Metrics

80 kW/m²

Heat Flux

12 °C

Temperature Rise Threshold 1

24 °C

Temperature Rise Threshold 2

Compliance Standard

DIN EN 367

Sample Material

Fabric

System Requirements

Power Supply

230 VAC / 30 VA

Air Supply

Compressed air

Physical Dimensions

Dimensions (W x D x H)

500 x 500 x 500 mm

Weight

50 kg

System Features

Key Capabilities

- Software-controlled pneumatic testing
- Real-time temperature display
- Automated propane delivery control
- Electronic fire insurance safety mechanism
- Automated data analysis and reporting