Radiant Heat Protection Tester for Protective Clothing

This thermal protection performance tester determines the thermal radiation performance of fabrics in high-temperature environments. It assesses the insulation provided by single or multi-layer fabrics when exposed to radiant heat.

Product Overview

Thermal Protection Assessment

This advanced thermal protection performance tester is designed for determining the insulation characteristics of single or multi-layer fabrics in high-temperature environments. It provides essential data for researchers and material developers by measuring the heat radiation performance, a critical index for flame-retardant protective clothing. The system supports precise testing through two distinct methodologies, ensuring reliable evaluation for safety-critical textile applications.

Technical Specifications

Compliance Standards	DIN EN ISO 6942
Applicable Materials	Textiles
Sensor Type	Calorimeter
Power Requirements	3 ~ 400 VAC / 12.5 kVA

Physical Characteristics

Dimensions (W x D x H)

2000 mm	800 mm	1500 mm
Width	Depth	Height

Total Weight	150 kg

Testing Methodology

Available Methods

Method	Procedure
Method A	Visual change inspection after exposure to controlled radiant heat intensity.
Method B	Calorimeter measurement of time required for 12°C and 24°C temperature rise.