



THERMAL PROTECTION TESTER

Thermal Protection Tester ToronPC™ TPT is designed to evaluate the thermal insulation performance of horizontally positioned flame-retardant protective fabric when exposed to radiant and convective heat sources.

APPLICATIONS

Standards

1. ASTM F2703: Specifies a test method to evaluate the protective performance of flame-resistant materials by measuring heat transfer and predicting skin burn injury when exposed to infrared radiation.
2. ASTM D4018: Provides standardized test methods for determining the tensile strength, modulus, and density of resin-impregnated continuous filament carbon and graphite fiber tows.
3. ISO 17492: Determines the heat transmission through protective clothing materials when subjected to a combination of convective (flame) and radiant heat sources.
4. NFPA 2112: Defines the minimum requirements for the design, construction, and testing of flame-resistant garments used by industrial personnel to protect against short-duration thermal exposures from flash fires.
5. NFPA 1971: Establishes the rigorous performance and certification requirements for protective ensembles (turnout gear) used by firefighters in structural and proximity firefighting operations.

FEATURES

- 1. Features a touch screen interface for straightforward operation.
- 2. Powered by an 32-bit microcontroller, providing a multifunctional control system.
- 3. Includes an meter head for precise performance control.
- 4. Offers manual adjustment of the radiation and heat flow sources for enhanced usability.
- 5. Comes with a heat calibration tool, enabling quick and accurate calibration to ensure reliable data.

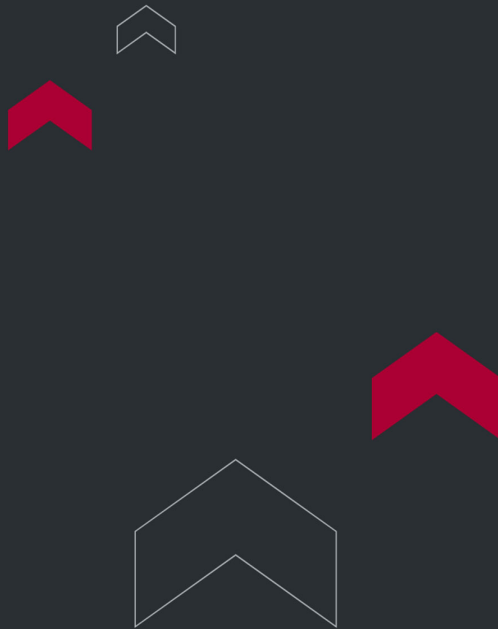
TECHNICAL SPECIFICATIONS

Model	ToronPC™ TPT
Specimen Size	150 x 150mm
Thermal-Flux Range	≤100KW/m²
Rotor Flow Meter Range	6L/min
Copper Heat Flow Meter Measuring Range	0°C~300°C, resolution 0.1°C, accuracy 0.2°C
Timing Range and Accuracy	0~999999.9s, accuracy 0.1s
Voltage	220V 50Hz (110V is also available)
Dimension	1200 x 450 x 550 mm
Weight	48 kg

Accessories

Standards accessories	Quantity
Operating software	1pc

Standards accessories	Quantity
Power line	1pc



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