



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



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com

