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# CATHETER PRESSURE TRANSFER & FLOW TESTER

Catheter Pressure Transfer & Flow Tester – ToronMed™ PTFT03 is designed to measure and evaluate the pressure transfer characteristics and flow performance of medical devices such as catheters, infusion sets, and respiratory tubes. By simulating clinical pressure and fluid transfer conditions, this tester provides reliable data to ensure that devices perform safely, consistently, and in compliance with international standards.

## Why Choose Catheter Pressure Transfer & Flow Tester – ToronMed™ PTFT03?

The Pressure Transfer Flow Tester – ToronMed™ PTFT03 combines accuracy, automation, and reliability to support the validation of medical devices in both R&D and quality control settings. With advanced flow regulation, large-capacity data storage, and compliance with international standards, the Pressure Transfer Flow Tester is an essential solution for ensuring the performance and safety of catheters, breathing tubes, and infusion systems.

### APPLICATIONS

- Catheters
  - Infusion catheters
  - Drainage catheters
  - Urinary catheters
- Respiratory Devices
  - Breathing tubes
  - Anesthesia circuits
  - Trachea cannulas
- Other Medical Tubing

- Peritoneal catheters
- Flexible medical hoses

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ToronMed-PTFT03
Pressure Transfer Flow Tester

## FEATURES

- Advanced Microcomputer Control
  Embedded high-speed controller with streamlined interface ensures precise operation and reliable performance.
- 7-Inch HD Touchscreen
  Real-time display of test curves and data improves visibility and test management.
- Built-In Safety Systems
  Overvoltage protection and power-off memory safeguard test continuity and maintain system stability.
- High-Accuracy Flow and Pressure Control
  Electronic flow controllers provide stable, repeatable flow regulation under variable pressure conditions.
- Customizable Test Modes
  Pressure, flow, and dwell time can be preset for flexible test cycles tailored to specific applications.
- Large-Capacity Data Storage
  Internal memory capable of storing up to 100,000 test results, with automated pass/fail judgment.
- Connectivity & Reporting
  RS232 interface for PC data transfer and integrated printer for immediate reporting.

## THEORY & METHOD

### Test Principle

The Pressure Transfer Flow Tester applies controlled pressure and flow to the test specimen, such as a catheter or breathing tube, while continuously monitoring flow stability and pressure drop. By replicating real-world conditions, the tester provides accurate, repeatable data on fluid transfer efficiency, resistance, and device safety.

## TECHNICAL SPECIFICATIONS

| Specification | Value |
|---|---|
| Test Pressure Range | (to be specified – typical: 0–600 kPa) |
| Flow Rate Range | (to be specified – typical: 0–500 ml/min) |
| Accuracy | ≤ ±1% FS |
| Dwell Time | 0–60 min |
| Gas Supply Pressure | 0.4–0.7 MPa (customer-supplied) |
| Gas Supply Port | Φ8 mm PU Tubing |
| Voltage | AC 220V 50Hz / AC 110V 60Hz |
| Net Weight | Approx. 25 kg |
| Dimensions | 310 × 370 × 150 mm |

# Standard Configuration

- Main instrument unit
- Integrated touchscreen interface
- Micro printer
- Standard test connectors

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**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


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