



AUTO CATHETER FLOW RATE TESTER

Automated System for Flow Rate Testing of Catheters and Infusion Sets with Precision Balance and Real-Time Data Analysis

ToronMed™ CFRT-Auto Auto Catheter Flow Rate Tester is an advanced, fully automated system designed to measure the flow rate of water through intravascular and non-intravascular catheters, as well as infusion sets, in accordance with the latest edition of ISO 10555-1:2023 and other applicable international standards.

Utilizing a high-precision balance and intelligent touchscreen interface, this tester offers real-time weighing, flow calculation, result printing, and automatic data storage — making it ideal for regulatory testing, production quality control, and R&D validation.

APPLICATIONS

Data Integrity & Compliance

- Four-level user password access policy to ensure data protection
- Fully compliant with GMP computerized system requirements, including:
 - User and role management
 - Audit trail functionality
 - Historical data search and traceability

Applications

Device Type	Test Description
Intravascular Catheters	Flow rate testing under controlled pressure
Non-Intravascular Catheters	Validation of water flow characteristics
Infusion Sets	Automated flow delivery measurement and verification



Standards Compliance

The ToronMed™ CFRT-Auto supports test procedures aligned with major international standards, including:

- ISO 10555-1:2023 – Intravascular catheters – General requirements
- ISO 8536-4 – Infusion equipment for medical use – Infusion sets
- EN 1618 – Catheters other than intravascular – Flow characteristics

These standards define procedures for fluid delivery testing using hydrostatic pressure and are essential for verifying catheter and infusion set performance.

Standard Configuration

- Main instrument with touchscreen controller
- Hydrostatic pressure head
- Adjustable height test stand
- Constant temperature water tank
- PU tubing and test setup accessories

FEATURES

- Maintains a hydrostatic pressure height of 1000 ± 10 mm, adjustable across a wide vertical range
- Two selectable flow rates: 525 mL/min and 500 mL/min to comply with multiple testing standards

- Constant temperature water tank ensures test fluid is maintained at 23 °C (adjustable from 15–55 °C)
- Automated timing and flow calculation system integrated with high-precision balance
- 7-inch HD color touchscreen for real-time data visualization and user control
- Multiple flow measurement units available: L/min, g/min, etc.
- Stores up to 100,000 test records, with result printing and historical data review
- Supports automated result determination and custom report output formats

TECHNICAL SPECIFICATIONS

Specification	Value
Model	ToronMed™ CFRT-Auto
Balance Range	0-3000 g
Accuracy	0.1 g
Flow Rates	500 mL/min, 525 mL/min (selectable)
Flow Rate Deviation	≤ ±3 mL/min
Test Time	1-99,999 seconds (user-configurable)
Time Accuracy	≤ ±1 s
Temperature Range	15-55 °C
Temperature Accuracy	≤ ±1 °C
Voltage	220V 50Hz / 120V 60Hz
Dimensions	420 mm (L) × 280 mm (W) × 1680 mm (H)
Net Weight	75 kg



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