TORONTECH

CATHETER FLOW RATE TESTER

Precision System for Testing Flow Rate of Intravascular Catheters and Infusion Sets

ToronMed™ CFRT01 Catheter Flow Rate Tester is a precision instrument designed to evaluate the water flow rate through intravascular and non-intravascular catheters, as well as infusion sets, under controlled hydrostatic pressure. This system simulates clinical fluid flow conditions, ensuring catheter and infusion device performance meets regulatory flow rate and temperature criteria.

This device is ideal for medical device manufacturers, QA labs, and compliance testing facilities working with vascular access devices and fluid delivery systems.

APPLICATIONS

Applications

Test Item	Description
Intravascular Catheters	Flow rate under hydrostatic pressure
Non-Intravascular Catheters	Flow rate and delivery validation
Infusion Sets	Flow control and delivery rate assessment

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ToronMed-CFRT01
Catheter Flow Rate Tester

Standards Compliance

The ToronMed™ CFRT01 supports testing in accordance with the following international standards:

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

These standards define requirements for fluid delivery rates, testing under gravity-fed hydrostatic pressure, and temperature-controlled environments — all critical to device safety and effectiveness.

Standard Configuration

- Base instrument with hydrostatic test head
- Constant temperature water tank
- Height adjustment mechanism
- PU tubing and flow control system
- Balance support station

FEATURES

- Built-in hydrostatic pressure testing system maintains a liquid column height of 1000 ± 10 mm
- Flow rate of 525 ml/min, compliant with standard test requirements
- Integrated constant-temperature water tank ensures testing at 23 °C
- Includes adjustable height mechanism for varying pressure conditions
- Timer function for controlled and repeatable timed testing

- Balance station platform for placing graduated cylinders or precision balances
- Flow-regulating valves for easy control and flow calibration during tests

TECHNICAL SPECIFICATIONS

Specification	Value
Model	ToronMed™ CFRT01
Flow Rate	525 ml/min
Liquid Level Control	1000 ± 10 mm
Water Temperature Control	23 °C via constant-temperature tank
Dimensions (Test Device)	280 mm (L) × 420 mm (W) × 1660 mm (H)
Dimensions (Water Tank)	420 mm (L) × 380 mm (W) × 755 mm (H)
Height Adjustment	Manual vertical lift mechanism
Accessories	PU pipe, balance station, flow regulation valves

TORONTECH.com

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