

WATER-SEALED VALVE CHEST DRAINAGE TESTER



Water-sealed Valve Chest Drainage Tester – Model ToronMed™ CDTWSV02 is a specialized instrument designed to test the performance of single-use water-sealed chest drainage devices. It is suitable for evaluating parameters such as non-aqueous suction control error, water-seal retention, opening pressure, release rate, patient gas leakage, and compliance performance.

By simulating real-world clinical use conditions, the Water-sealed Valve Chest Drainage Tester – Model ToronMed™ CDTWSV02 ensures that disposable chest drainage devices meet stringent international safety and performance requirements.

Key Testing Capabilities

- Suction Control Accuracy – Measures error margins in non-aqueous suction control.
- Water-seal Retention – Ensures reliability of seal under pressure fluctuations.
- Opening Pressure and Release Rate – Verifies activation thresholds and release function stability.
- Gas Leakage Detection – Evaluates device integrity to prevent patient air leakage.
- Compliance Testing – Confirms device responsiveness and reliability under operational stress

Standards

The Water-sealed Valve Chest Drainage Tester – Model ToronMed™ CDTWSV02 is designed in compliance with relevant international standards for thoracic drainage devices, including:

- International Standards for Disposable Chest Drainage Devices – Provide requirements for water-sealed valve systems, including retention, leakage resistance, and valve performance.
- Global Medical Device Testing Guidelines – Define test methods for ensuring the accuracy, safety, and reliability of drainage devices in clinical use.

By meeting these standards, the ToronMed™ CDTWSV02 ensures manufacturers and testing labs can validate device performance with confidence, while aligning with global safety and quality expectations.

Torontech is a trusted global provider of advanced medical device testing solutions. With the Water-sealed Valve Chest Drainage Tester – Model ToronMed™ CDTWSV02, manufacturers and laboratories gain a precise, reliable, and standards-compliant solution to ensure chest drainage devices deliver the highest level of clinical safety and patient protection.

APPLICATIONS

The Water-sealed Valve Chest Drainage Tester – Model ToronMed™ CDTWSV02 is ideal for:

- Medical device manufacturers producing chest drainage devices.
- Independent laboratories conducting third-party validation of device performance.
- Regulatory and compliance agencies verifying international standard adherence.
- Research institutions developing next-generation thoracic drainage systems.

Water-sealed Valve Chest Drainage Tester

FEATURES

- Adiabatic pressure sensors with precision vacuum generator for superior test accuracy.
- 7-inch color touch screen with intelligent data processing for a user-friendly experience.
- Embedded microprocessor with simplified interface and customizable test modes.
- Support for multiple test modes including retention, opening pressure, leakage, compliance, and more.
- Automatic result calculation with data storage up to 50,000 records.
- Built-in micro printer for instant report generation.
- RS232 interface for PC connectivity and data transmission.

TECHNICAL SPECIFICATIONS

Item	Water-sealed Valve Chest Drainage Tester - Model ToronMed™ CDTWSV02
Test Range	-100 to 10 kPa
Pressure Accuracy	0.5% FS
Flow Range	0-1000 mL/min
Flow Accuracy	0.5% FS
Gas Supply Pressure	≤ 0.7 MPa (external supply required)
Gas Supply Port	Ø 6 mm PU tubing
Dimensions	390 × 410 × 190 mm
Power Supply	See instrument nameplate
Standard Configuration	Instrument, micro printer, gas source connector.
Note	Customers must prepare an external gas supply.



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