



RESPIRATORY & ANESTHETIC DEVICE TESTING EQUIPMENT

Respiratory & Anesthetic Equipment Testing | ISO 5367, ISO 23368 & ISO 17510 Compliance

Respiratory and anesthetic equipment testing equipment measures the airflow resistance, leak resistance, and valve performance of breathing tubes, oxygen cannulas, respirator masks, and chest drainage devices used with ventilators and anesthetic apparatus. Torontech's range is built around ISO 5367 for breathing tubes, ISO 23368 for nasal oxygen cannulas, and ISO 17510 for respirator mask performance, alongside dedicated instruments for chest drainage valve testing. Manufacturers, quality control labs, and regulatory test facilities use these instruments to confirm airway and drainage devices perform safely under simulated clinical breathing and pressure conditions.

The range spans six instruments covering airway delivery devices, breathing circuit components, full-battery respirator mask testing, and chest drainage valve performance, so a lab can build out respiratory and anesthetic testing capability device by device.

Why Choose Torontech for Your Respiratory & Anesthetic Equipment Testing

Torontech supplies testing and measurement equipment to laboratories and manufacturers across North America and worldwide, backed by responsive technical support and calibration service. The Respiratory & anesthetic Equipment Testing range is built for reliable, standards-driven results, so you can standardize on one supplier as your testing needs grow. Our team helps you match the right configuration to your samples, applicable standards, and throughput, then supports you through installation and beyond.

Request a Quote

Tell us which respiratory or anesthetic device you need to test and the standards your program follows, and we will recommend the right instrument from this range. [Contact the Torontech team](#) for pricing and lead times.

APPLICATIONS

Applications

Respiratory and anesthetic equipment testing supports manufacturers and labs across airway, breathing circuit, and thoracic drainage devices.

- Oxygen Delivery Device Manufacturing: validates airflow resistance, leakage, and patency of nasal oxygen cannulas against ISO 23368.
- anesthetic and Ventilator Breathing Circuit Production: confirms resistance to flow, leakage, and compliance of breathing tubes used with anesthetic apparatus and ventilators per ISO 5367.
- Respirator Mask Development: evaluates inspiratory and expiratory resistance, anti-asphyxia valve function, and CO2 rebreathing performance per ISO 17510.
- Thoracic Drainage Device QA: checks dry-seal and water-sealed valve performance, negative pressure monitoring, and automatic release valve function in disposable chest drainage systems.

TECHNICAL SPECIFICATIONS

Respiratory & anesthetic Equipment Testing Range

The range covers six instruments spanning oxygen delivery, breathing circuit, respirator mask, and chest drainage device testing.

Nasal Oxygen Cannula Tester

ToronMed™ NOCT02 evaluates nasal oxygen cannulas against ISO 23368:2022, covering airflow resistance, flatness resistance when the tubing is bent or compressed, leakage at joints and connectors, pressure resistance, and patency at

flow rates of 15 L/min or higher. A rotating wheel fixture and universal cone interface accommodate cannulas of different diameters and designs.

Breathing Tube Resistance to Flow Tester

ToronMed™ BTRFT03 measures the pressure drop across breathing tubes used with anesthetic apparatus and ventilators, built to ISO 5367:2023. It tests both straight tube resistance and resistance after the tube is bent around a weighted fixture, confirming the tube maintains adequate airflow under realistic handling conditions.

Breathing Tube Leakage and Compliance Tester

ToronMed™ BTLCT02 applies controlled pressure and dwell time to breathing tubes and related anesthesia and suction catheters to confirm leakage and compliance performance under ISO 5367, helping manufacturers verify that breathing circuits hold pressure throughout a ventilation cycle.

Respirator Mask Performance Tester

ToronMed™ RMPT01 runs a full battery of respirator mask tests under ISO 17510:2015, including inspiratory and expiratory resistance, exhaust flow, anti-asphyxia valve pressure, and CO2 rebreathing, using a breathing simulator and headform to replicate real-world wear conditions.

Water-sealed Valve Chest Drainage Tester

ToronMed™ CDTWSV02 evaluates single-use water-sealed chest drainage devices, covering suction control accuracy, water-seal retention, opening pressure and release rate, gas leakage, and compliance, against international standards for thoracic drainage devices.

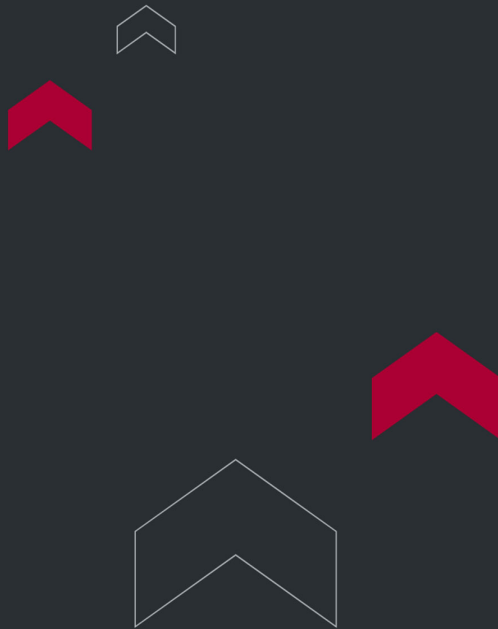
Chest Drainage Tester

ToronMed™ CDT01 focuses on dry-seal valve chest drainage systems, testing negative pressure status monitoring, valve opening and closing performance, and high negative pressure automatic release valve function, against international

thoracic drainage device standards.

How to Choose the Right Respiratory & anesthetic Equipment Tester

- For oxygen delivery devices: choose the nasal oxygen cannula tester to validate airflow, leakage, and patency per ISO 23368.
- For breathing circuit airflow performance: choose the breathing tube resistance to flow tester to confirm straight and bent-tube resistance per ISO 5367.
- For breathing circuit seal integrity: choose the breathing tube leakage and compliance tester to validate pressure holding over a ventilation cycle.
- For respirator masks: choose the respirator mask performance tester for full ISO 17510 inspiratory, expiratory, and CO2 rebreathing evaluation.
- For water-sealed chest drainage systems: choose the water-sealed valve chest drainage tester.
- For dry-seal chest drainage systems: choose the chest drainage tester to validate valve and release performance.



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