



NASAL OXYGEN CANNULA TESTER

Nasal Oxygen Cannula Tester | ISO 23368:2022

Nasal Oxygen Cannula Tester – Model ToronMed™ NOCT02 is a state-of-the-art instrument designed to evaluate the safety, performance, and reliability of nasal oxygen cannulas in compliance with the latest ISO 23368:2022 international standard for respiratory therapy devices and other applicable international standards.

Engineered for medical device manufacturers, research laboratories, and quality assurance facilities, the Nasal Oxygen Cannula Tester – Model ToronMed™ NOCT02 provides comprehensive testing capabilities to ensure that nasal oxygen cannulas—whether disposable, reusable, or connected to humidification systems—meet the highest performance standards required in healthcare environments.

Torontech is a trusted global provider of advanced medical device testing solutions. With the Nasal Oxygen Cannula Tester – Model ToronMed™ NOCT02, laboratories and manufacturers gain an accurate, reliable, and regulatory-compliant solution that ensures the highest level of patient safety and product performance.

APPLICATIONS

Applications

The Nasal Oxygen Cannula Tester – Model ToronMed™ NOCT02 is ideal for:

- Medical device manufacturers performing R&D, production line QC, and batch validation.
- Independent laboratories conducting third-party verification of oxygen cannulas.
- Hospitals and healthcare institutions seeking in-house equipment for patient safety assurance.
- Regulatory compliance testing in line with ISO 23368 and other international standards.

FEATURES

- 7-inch color touch screen for intuitive operation and real-time data monitoring.
- High-precision pressure sensors and flow meters for accurate, repeatable measurements.
- Rotating wheel design accommodates nasal oxygen cannulas of various diameters.
- Universal cone interface, compatible with most cannula designs worldwide.
- Onboard micro printer & USB interface for real-time reporting and data transfer.
- Large data storage capacity (up to 50,000 test records).
- Overload protection & power-down memory for safe and reliable operation.
- Optional GMP-compliant software with user authority management and audit trail, supporting 21 CFR Part 11 requirements.

THEORY & METHOD

Key Testing Functions

The Nasal Oxygen Cannula Tester – Model ToronMed™ NOCT02 supports five essential test functions, allowing for full performance evaluation:

- - Airflow Resistance – Measures pressure drop across the cannula at controlled flow rates to ensure unobstructed oxygen delivery.
 - Flatness Resistance – Assesses performance when the cannula tubing is bent or compressed, simulating real-world usage.
 - Leakage Test – Detects possible leaks at joints, connectors, or tubing sections to verify patient safety.
 - Pressure Resistance – Evaluates the cannula's ability to withstand internal pressures without rupture or deformation.
 - Patency Test – Confirms that sufficient oxygen flow is maintained (≥ 15 L/min) under normal operating conditions.

TECHNICAL SPECIFICATIONS

Specification	Nasal Oxygen Cannula Tester - Model ToronMed™ NOCT02
Test Range	0-600 kPa; 0-87 psi
Inflatable Head Diameter	Ø 5.5-8.5 mm (standard, customizable)
Gas Supply Pressure	0.25-0.7 MPa (external source required)
Port Size	Ø 8 mm PU tubing
Mainframe Dimensions	325 × 430 × 205 mm
Test Chamber Dimensions	550 × 200 × 168 mm
Voltage	AC 220V, 50Hz (110V is also available)
Net Weight	15.2 kg total (Mainframe: 8.8 kg, Chamber: 6.4 kg)



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