TORONTECH

SYRINGE AIR LEAKAGE TESTER

ISO 7886

Syringe Air Leakage Tester ToronMed™ SALT01 is a precision testing instrument designed to determine the negative pressure tightness of disposable syringes, prefilled syringes, non-intravascular catheters, and other medical tubing. Using advanced vacuum technology and high-accuracy sensors, this tester ensures reliable, repeatable results that meet ISO 7886 requirements for syringe leakage testing.

Ideal for medical device manufacturers, quality control laboratories, and regulatory compliance facilities, the ToronMed™ SALT01 Syringe Air Leakage Tester delivers both efficiency and accuracy in syringe air leakage evaluation.

APPLICATIONS

Safety & Data Integrity

- Sensor Protection – Automatic shutdown on over-range pressure to prevent equipment damage.
- Secure Data Access – Four-level user password protection with GMP-compliant software for user management, permissions, and audit trail tracking.
- Power-Down Memory – Ensures data is retained even in the event of power loss.

Applications

- Primary: Disposable sterile syringes, prefilled syringes, non-intravascular catheters
- Extended: Drainage tubes, medical hoses, and other tubing

Applicable Standards

- ISO 7886 – Sterile hypodermic syringes for single use

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ToronMed-SALT01
Syringe Air Leakage Tester

Why Choose ToronMed™ SALT01 Syringe Air Leakage Tester?

With its high-precision pressure sensing, rapid vacuum generation, secure data management, and user-friendly operation, the ToronMed™ SALT01 offers a complete solution for accurate and efficient syringe air leakage testing.

FEATURES

Key Features

- Wide Negative Pressure Range – Adjustable from -5 to -90 kPa with precision output of -88 ± 0.2 kPa.
- High-Accuracy Measurement – Equipped with a pressure sensor accurate to 0.1% FS for dependable test results.
- Fast Vacuum Generation – SMC vacuum generator enables rapid negative pressure testing.
- User-Friendly Interface – 7-inch full-color touchscreen with intelligent data processing functions.
- Automatic Calibration & Testing – Simplifies setup, ensures consistency, and automatically determines test results.
- Data Storage & Connectivity – Stores up to 100,000 test records and features an RS232 interface for PC data transfer.

THEORY & METHOD

Test Principle

The syringe nozzle is connected to a reference female conical hub, and the syringe is partially filled with water. Negative pressure is applied through the nozzle to check for leakage past the piston and seals, and to verify that the piston remains

securely attached to the plunger.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Negative Pressure Range	-5 ~ -90 kPa
Negative Pressure Output	-88 ± 0.2 kPa
Accuracy	0.1% FS
Test Time	0 – 99,999.9 s (adjustable)
Dimensions	300 × 410 × 370 mm
Net Weight	9.3 kg
Voltage	220V, 50Hz (110V is also available)

TORONTECH.com

TORONTECH

Torontech Inc.
251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC
601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE
Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE

Phone: +971 488 19252
Email: me@torontech.com

USA | Canada | EU | UAE | GCC | KSA | India | Africa | Latin America | Asia