



LT-03 Leak Tester

Application

Assessing package seal integrity is crucial to verify the packaging's ability to provide the required product protection. Seal integrity tests are commonly utilized to evaluate sustainable packaging alternatives, cost-effective packaging options, and variations in production line sealing parameters. Maintaining the dependability of package seals is essential to uphold product quality and safety.

Various Ways of Leak Test

ASTM Norm	Method	Used For	Our Solution
D3078	Bubble Emission	MAP,gas filled,liquid filled, etc	LT-01, T-02, LT-03
D4991	Bubble Emission	Empty Rigid Containers	LT-01,LT-02,LT-03 modified
F2096	Pressurization	Gross Leaks	GLT-01
F2338	Vacuum Decay	Flexible pack, rigid containers	MLT-01
F2054/F1140	Pressure Decay	Flexible, rigid, tube, etc	LSST-01

Test Description

The sample is positioned in a water-filled chamber and covered securely. The control unit then extracts air until reaching the set vacuum. If a minor leak exists, the pressure difference expels trapped air, evidenced by bubbles emerging from the leak area.

Main Parameters

Test Range	0~-90 KPa
Chamber	Acrylic Cylinder Shape
Test Space	Φ270*H210mm (Inside Usable)
Compressed Air	0.7MPa (Prepared by user)
Power	110~220V 50/60Hz



Technical Features

- 1) PLC-controlled unit (industrial-level stability) with HMI touch screen operation.
- 2) To achieve a stable vacuum, considering the ease of obtaining compressed air, a Venturi tube is used for a vacuum level of up to -90KPa.
- 3) This testing method relies on visual observation, providing cumulative result numbers instead of direct Pass/Fail outcomes.
- 4) LT-03 offers a parameter-saving function for 5 groups, optimizing efficiency for users with diverse samples and test conditions (vacuum level and test time).

Additional features include:

- 5) Robust and transparent chamber with customization options for various sizes and shapes.
- 6) Optional inclusion of a micro printer for sample identification.
- 7) Optional adaptation for display in local languages.
- 8) Modification capability to work with a vacuum pump, enabling higher vacuum.

Available Chambers

Cylinder shape of required height and diameter, such as φ270, φ364, φ464mm, etc. Cuboid shape with different LWH.

Similar Models

- LT-01 Leak tester (manual)
- LT-02 Leak tester (automatic)
- LSST-01 Leak and Seal Strength Tester



Long & Large Diameter Chamber



Cuboid Chamber

The Company reserves the right to update, modify, or amend this Catalog without prior notice.

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