



LT-02 Leak Tester

Application

Evaluating the integrity of package seals plays a crucial role in verifying that the packaging affords the necessary product protection. Seal integrity tests are regularly employed to inspect sustainable packaging alternatives, cost-effective packaging solutions, and adjustments in production line sealing parameters. Ensuring the dependability of package seals holds paramount importance for upholding 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

A sample is placed in a water-filled chamber. After sealing the lid, the control unit removes air until the set vacuum is achieved. Due to pressure differences, any air in the sample escapes through a small leak, shown by emerging bubbles.

Technical Features

The LT-02 leak tester marks the first-generation automatic vacuum tester introduced by Cell Instruments. The ASTM D3078 standard is employed for the determination of gross leaks in flexible packaging containing headspace gas through bubble emission. This test involves submerging the test specimen in an immersion fluid within a vacuum chamber.

- Achievement of a stable vacuum by utilizing a Venturi tube, taking into account the ease of obtaining compressed air at user facilities. This design enables a high level of vacuum of up to -90KPa.
- Precise and adjustable test time settings.
- Utilization of an SMC branded vacuum pressure switch.
- Provision of a robust and transparent chamber, with customization available for different sizes and shapes.
- Possible modification for compatibility with a vacuum pump, allowing for higher vacuum levels (following ASTM D4991).



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	110V, or 220V 50/60Hz

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-03 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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