

LT-01 Leak Tester

Application

Testing the integrity of package seals helps ensure that the packaging provides the required product protection. Sustainable packaging alternatives, lower-cost packaging, and variations in production line sealing parameters are frequently assessed with seal integrity tests. Maintaining the reliability of package seals is critical for 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 into a chamber filled with water. The chamber is then covered with a lid and sealed securely. The gas switch is manually opened, allowing compressed air to flow through the venturi tube, creating a vacuum inlet that is connected to the chamber. A gas regulator can adjust the level of vacuum, creating a vacuum environment for the sample. The pressure difference between the inside and outside of the sample will cause any headspace gas to

escape in case of a leak. The presence of a leak is indicated by a stream of bubbles coming from the area of the leak.

Technical Features

LT-01 leak tester is the manual model developed. It's an economical, strong and durable model.

To achieve stable vacuum and considering the fact that compressed air is easier to obtain at user's facility, we use Venturi tube for a high level of vacuum up to -90KPa.

• A strong and transparent chamber provided, which is the same type as the chamber equipped to our automatic models; Different sizes and shapes could be customized.

It could be modified to work with vacuum pump, to achieve higher vacuum (for 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)	
Electricity	Not Needed	

Available Chambers

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

Similar Models

LT-02 Leak tester (automatic) LT-03 Leak tester (automatic) LSST-01 Leak and Seal Strength Tester



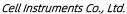




Long&Large Diameter Chamber

Cuboid Chamber

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leadquarters: No. 5577 Gongyebei Rd,Licheng District, Jinan, 250109, Shandong, P.R.C.



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