

LEAK-01 Leak Tester

Brief Introduction

LEAK-01 Leak Tester, using negative pressure method, is designed for the leakage tests of packaging bags, bottles, cans, boxes and other packaging materials. Through leak tests, the sealing processing and seal performance of the packages can be determined properly and the test results may be used for reference when determining other technical parameters. The instrument also can be used to test seal performance of specimens after falling and compression tests.



Technical Features

- ◆ Negative pressure method, the precise pressure test system, the test accuracy is greatly improved
- ◆ Imported high-speed and high-precision sampling chip, effectively guaranteeing test accuracy and real-time performance
- ◆ Automatic constant pressure air supplement to ensure that the test can be carried out under preset vacuum conditions
- ◆ Automatic blowback and unloading function, making the end of the test easy and smooth
- ◆ Safety design such as over-voltage safety protection and power-down memory ensure the stability of the system during the test
- ◆ Chinese and English interface can be switched at will
- ◆ Equipped with standard RS232 interface, which is convenient to PC connection and data transmission
- ◆ 7 inch HD LCD, displaying test data and curves in real time
- ◆ With gradient test mode, it is convenient to quickly find the critical value of sample

leakage pressure

- ◆ Vacuum degree and time can be preset, directly input the value, can enter the test mode
- ◆ With a powerful data storage function, which can store up to 50,000 test records
- ◆ The result is automatically determined, and the test data can be printed
- ◆ Support historical data for quick viewing and printing

Test Principle

The specimen is submerged in the water within the vacuum chamber, and then the vacuum chamber is evacuated to form a pressure difference between the inside and outside of specimen. The seal performance can be obtained by observing whether there are steady progression of bubbles from the specimen and how the specimen expands and restores to its original shape after vacuum release.

Applications

Basic Applications	Flexible packages
	Cans, bottles, pipes and boxes
	Paper plastic composite bags and boxes
	Packages after falling and compression tests
Extended Applications	Medical instruments
	Electronic components

Technical Specifications

Item	LEAK-01			
Vacuum Degree	0~ -90kPa			
Accuracy	0.1%FS			
Test Method	Two detection methods			
Test Mode	Normal mode / Gradient mode			
Increased Test Rate	Higher flow rate vacuum generator on demand			
Model & Effective Size of Vacuum Chamber	Vacuum Chamber 300 φ270×210 (H)	Vacuum Chamber 400 φ360×585 (H)	Vacuum Chamber 500 φ460×330 (H)	Customizati on Available for Other Sizes of Vacuum

	(Standard)	(Optional)	(Optional)	Chamber
Maintaining Capability of Vacuum Degree	Automatic Compensation, Constant Pressure Maintaining & Vacuum Degree Setting by Range			
Operating & Controlling Way	Automatic Control & Touch Screen Operation			
Gas Supply Pressure	0.7~0.9MPa (Customers will need to prepare for gas supply)			
Port of Gas Supply	Φ6 mm PU Tubing			
Power Supply	AC 220V 50Hz/120V 60Hz			
Instrument Dimension	Instrument: 300mm(L)×385mm(W)×150mm(H) Vacuum Chamber 300: φ310×355 (H)			
Net Weight	Instrument: 7kg Vacuum Chamber 300: 9.5kg			
Language	Chinese/English (standard), others can be customized			

Standards

GB/T 15171, ASTM D3078

Configuration

Standard Configuration	
	Instrument, Vacuum chamber

Note: 1.The gas supply port of the instrument is Φ6 mm PU Tubing;
2. Customers will need to prepare for gas supply.

Technical specifications are subject to change without further notice. Please visit our website at www.horizontester.com for latest information.