TECHLABSYSTEMS

LEAK-01 Leak Tester

LEAK-01 Leak Tester, using negative pressure method, is applicable to leak detection of packaging bags, bottles, cans and boxes, etc. Through leak tests, the sealing processing and seal 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.

Product Features

- Negative pressure method, the precise pressure test system, the test accuracy is greatly improved
- Embedded micro-computer chips, simplified and efficient user interface provide users with comfortable and smooth operating experience
- Imported high-speed and high-precision chips guarantee the testing accuracy and efficiency
- 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 process simple and smooth
- Safety design such as over-voltage safety protection and power-down memory ensure the stability of the system during the test
- Equipped with standard RS232 interface, which is convenient to PC connection and data transmission
- Low energy consumption makes the instrument environment-friendly

Originality design

- 7” HD LCD, displaying test data and curves in real time
- With gradient test mode, which is convenient to find the critical value of sample leakage pressure quickly
- Vacuum degree and time can be preset, 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
- Standard, modularized and systematic designs can meet personalized requirements of the users
- Based on the flat design concept, a new design of the UI interface has been carried out to bring users a more concise, efficient and comfortable operating experience

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 Application	Seal performance tests of flexible packages
	Seal performance tests of cans, bottles, pipes and boxes
	Seal performance tests of packages after falling and compression tests

Technical Specifications

Specifications	LEAK-01			
Vacuum Degree	0 ~ -90kPa			
Accuracy	0.1%FS			
Test Mode	Normal mode / Gradient mode			
Model & Effective Size of Vacuum	Vacuum Chamber 300	Vacuum Chamber 400	Vacuum Chamber 500	Customization Available for Other Sizes of

Chamber	φ270×210（H） （Standard）	φ360×585（H） （Optional）	φ460×330（H） （Optional）	Vacuum Chamber
Maintaining Capability of Vacuum Degree	Automatic Compensation, Constant Pressure Maintaining & Vacuum Degree Setting by Range			
Mode of Operation Control	Automatic Control & Touch Screen Operation			
Gas Supply Pressure	0.7~0.9MPa (Not in supply scope)			
Port of Gas Supply	Φ6 mm PU Tubing			
Power Supply	AC 220V 50Hz/120V 60Hz			
Instrument Dimension	Instrument: 300mm(L)×385mm(W)×150mm(H) Standard Vacuum Chamber 300: φ310×355（H）			
Language	English (standard), Russian (optional), others can be customized			
Net Weight	Instrument: 7kg, Vacuum Chamber 300: 9.5kg			

Standards

ASTM D3078, GB/T 15171

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.