



Vacuum Leak Detector

MFY-05S

Designed for mechanical properties of Product sealing
performance



Application areas

Meet a variety of samples and achieve the best cost-effectiveness

Applicable to the sealing and tightness testing of composite soft bags, plastic bottles, jelly cups, vacuum packaging, blister packaging, injection bottles, glass bottles, medical devices, pipettes, water-based pens and other products in the food, medicine, cosmetics, medical equipment and other industries. Widely used in quality inspection agencies, packaging manufacturing companies, drug testing centers, pharmaceutical companies, medical device companies, food companies, cosmetics companies and other industries for sealing integrity testing.



Polyethylene bottle

Vial

Infusion bottle

Blister packaging



Cosmetic bottles

Mineral water bottles

Metal cans

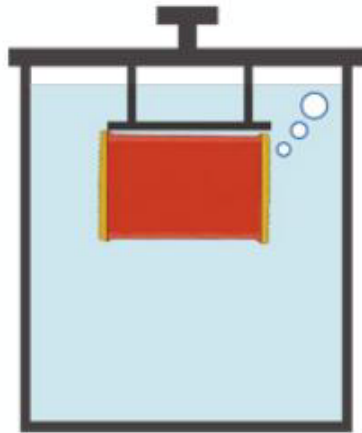
Food soft packaging bags

Instrument display

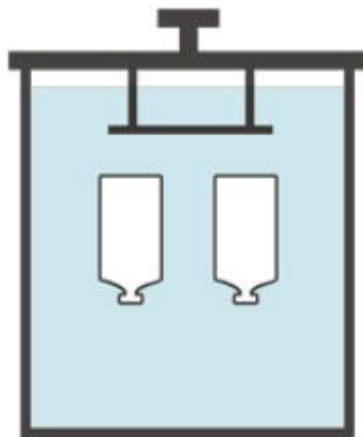


1. Equipped with a micro printer to quickly print the experimental results.
2. Highly transparent organic glass vacuum chamber, solid material, durable.
3. Touch screen display, microcomputer control, human-computer interaction interface, convenient and fast.
4. Independent operation button, alternate operation with touch screen, giving you more operation experience.

Test principle

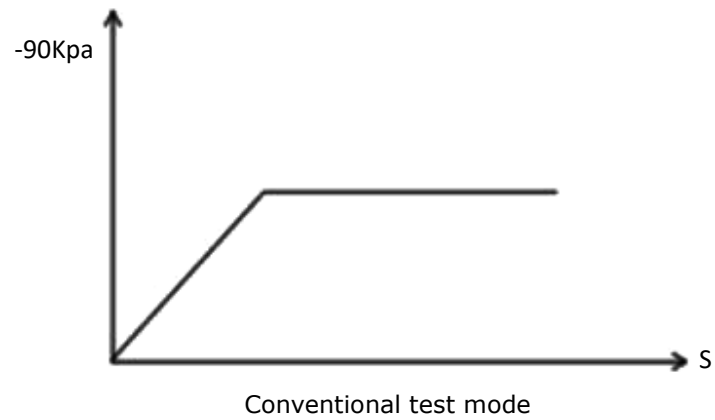
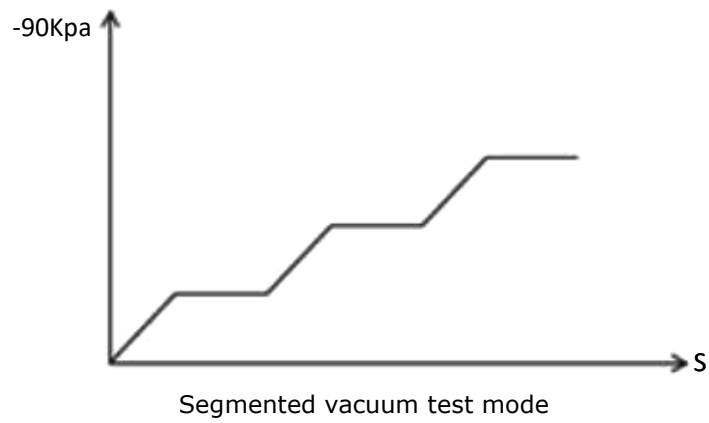


Bubble method: Create a pressure difference between the inside and outside of the sample immersed in water in a vacuum chamber, observe the gas escape from the sample, and determine the sealing performance of the sample.



Color water method: Put colored water in the water in the vacuum chamber, evacuate the vacuum chamber to create a pressure difference between the inside and outside of the sample, and observe the sample shape recovery and liquid penetration after releasing the vacuum to determine the sealing performance of the sample.

The optional Link-DMS test software system can back up the original data on the computer in the form of an unchangeable database and then export it in PDF format.





- Unique user hierarchical authority management function (4 levels) to ensure data integrity and standardization.
- Customize permission control, flexibly formulate permissions at various levels, and strictly limit the executors of various operations.
- A complete password protection solution limits illegal operations and ensures data traceability.
- A complete record encryption storage method is adopted to ensure that each test information data is complete, safe, reliable and not tampered with.



Technical advantages

- Normal test mode and segmented test mode, dual mode settings meet different test requirements.
- Automatic constant pressure gas replenishment ensures that the experiment is carried out under the preset vacuum.
- Vacuum components, stable performance and durable.
- One-touch operation, automatic change of test vacuum, automatic end of test, automatic backflush and unloading.
- Multiple groups of test data can be stored for easy query by users.
- The system program has ISP online upgrade function and can provide personalized services.
- Adopting high-speed processing chip, the running speed is greatly improved.
- The multi-step vacuum pressure and holding time can be set arbitrarily to simulate and evaluate the packaging under different vacuum conditions.
- The pressure and holding time of each vacuum stage can be freely set to suit different product testing requirements.
- The data local storage, automatic processing and statistical test data functions meet GMP requirements.
- The optional Link-DMS test software system can back up the original data on the computer in the form of an unchangeable database and then export it in PDF format.

One instrument is suitable for sealing tests of various packaging materials



Technical indicators

Indicator	Parameters
Vacuum degree	0.01--90.00KPa (other pressures can be customized) Class 1
Vacuum accuracy	Class 1
Segment test	1-5 segments (free setting)
Hysteresis setting	0.01-5.00KPa (free setting)
Holding time	0.1-99999.9s (freely set)
Vacuum chamber size	Φ270mm × 210mm (H) (Standard)
	Φ360mm × 585mm (H) (Optional)
	Φ460 mm x 330 mm (H) (Optional)
	(Other sizes can be customized)
Test results	1000 groups (unlimited groups with matching software)
Audit trails	1000 records (unlimited groups with supporting software)
Users	50 (usernames are numbers, letters or special symbols)
Data interface	RS232 (can be connected to user LIMS system)
Main unit size	420mm x 330mm x 160mm (length, width and height)
Weight	10Kg
Environmental requirements Working	
temperature	10°C-50°C
Air pressure	0.5MPa~0.7MP
Relative humidity	Up to 80%, no condensation
Working power	220V 5Hz

Standard

ASTM D3078

Instrument configuration

Standard configuration: host, vacuum chamber, micro printer, touch screen LCD

Optional configuration: Link-DMS test software system, communication cable, air compressor