KASON-ST90A Fully Automatic Sealing Tester

Note: The picture is for reference only

The KASON-ST90A Fully Automatic Sealing Tester is suitable for sealing tests of packaging bags, bottles, tubes, cans, boxes, etc., in industries such as food, pharmaceuticals, medical devices, daily chemicals, automobiles, electronic components, and stationery. It can also test the sealing performance of specimens after drop and pressure tests.

Application Industries:

1) Food Industry: Soft Packaging: Bagged milk powder, cheese, coffee sticks/packs, mooncakes, seasoning packets, snack foods, tea bags, bagged rice, potato chips, pastries, puffed foods, Tetra Pak cartons, sunflower seeds... food bags of any shape, material, and size. Semi-rigid Packaging: chilled meat, fruit and vegetable salads, trays, soft canned goods, yogurt, ketchup, tubled potato chips (snack foods), jelly... semi-rigid packaging of any shape, material, and size. **Rigid Packaging:** Canned milk powder, beverage bottles, oil drums, canned goods, tubs of biscuits, coffee bottles, aluminum cans, condiment bottles...any shape, material, and size of rigid packaging.

2) Pharmaceutical Industry: Sealed Containers: Vials, ampoules, syringes, oral liquids, eye drops, sterile bags, infusion bags/bottles, liquid injections, powder injections, BFS bottles, API bottles, BPC bottles,

FFS bottles, etc.—any shape, material, and size of sealed containers. Blister Packaging: Samples of powders, tablets, capsules, contact lenses, etc., packaged in blister packaging. Small Headspace Packaging: Powder packaging, small-dose powders, etc., with extremely small headspaces.

3) Others: various aluminum foil bags, wet wipes, cosmetic packaging, etc.

Technical Features:

1) Microcomputer control, test parameters are settable, and the test process is fully automated;

2) LCD screen displays the test process, simultaneously showing parameters such as set pressure, set holding time, and real-time pressure;

3) PVC operation panel with a brand-new button layout, simple and convenient operation;

4) The sealing barrel is made of imported high-quality organic glass tubing with a wall thickness of 15mm, the thickest in the industry;

5) Holding time, test pressure, and pressure compensation ratio can all be preset, enabling one-button operation during the test;

6) Precision imported pneumatic components ensure superior sealing performance and reliable quality;

7) Automatic constant pressure air replenishment based on the pressure compensation ratio during the test, eliminating the need for manual operation;

8) Automatic back flushing to unload pressure after the test, saving more operation time;

9) The instrument can be equipped with a thermal or dot matrix printer to print test results and test conditions, and the print report format can be customized;

10) The instrument has a built-in compressed air filter and pressure regulating device, which is externally located for easy drainage and cleaning of impurities, effectively ensuring the safe operation of internal components;

11) To ensure normal and interference-free operation, the instrument adopts a three-power independent power supply mode. The main controller, pressure receiving module, and pressure control module each have independent power supplies.

12) An imported pressure sensor, combined with a precision fast relay, allows for faster pressure compensation response and prevents pressure overshoot, maintaining the set pressure throughout. It features a built-in pressure calibration module and supports multi-point pressure calibration for convenient third-party calibration and verification.

Reference Standards:

This instrument meets multiple national and international standards, including GB/T 15171 Test Method for Sealing Performance of Flexible Packaging, ASTM D3078 Standard Test Method for Determining Leakage of Flexible Packaging by Bubble Method, etc.

Test Principle:

1) By evacuating the vacuum chamber, a pressure difference is created between the inside and outside of the sample immersed in water. The escape of gas from the sample is observed to determine the sealing performance.

2) By evacuating the vacuum chamber, a pressure difference is created between the inside and outside of the sample. The expansion of the sample and the recovery of its shape after the vacuum is released are observed to determine the sealing performance.

Technical Parameters:

Project	KASON-ST90A Fully Automatic Sealing Tester
Vacuum Range	0 ~ -90kPa
Vacuum Accuracy	0.5 grade
Vacuum Resolution	0.1kPa
Pressure Acquisition Speed	2ms
Pressure Compensation Response Speed	5ms
Vacuum Storage Time	0 - 6000s (expandable)
Control Method	Microcomputer control, fully automatic testing
Display Method	LCD display
Data Output Method	Thermal or dot matrix printer optional (optional)
Gas Source Pressure	0.5 MPa~0.7 MPa (gas source not provided by user, optional)
Gas Source Interface	Φ6 polyurethane tubing
Effective Size of Sealed Container	Φ270×210 mm (H) (standard)
	Φ360×585 mm (H), Φ460×330 mm (H) (optional)
	Note: Other sizes can be customized
External Dimensions	Main unit 420(L)×320(B)×120(H)mm Sealing container Φ300×350 mm (H) standard
Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight	Approx. 16KG

Product Configuration:

Standard Configuration: Main unit, sealing container, air hose, technical documents; Optional Accessories: Sealing container, air compressor, sample holder, non-standard customization service; Note: The air source interface of this machine is a Φ6 mm polyurethane tube; the air source is provided by the user.

FOCUS IN MATERIAL TEST

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