KASON-ST90 Automatic Sealing Tester

Note: The picture is for reference only

The KASON-ST90 sealing tester is suitable for sealing tests of packaging bags, bottles, tubes, cans, and boxes 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 resistance tests.

Application Industries:

1. Food Industry:

Flexible 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 fresh 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, tubled biscuits, coffee bottles,

aluminum cans, seasoning bottles… rigid packaging of any shape, material, and size.

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, and other sealed containers of any shape, material, and size. Blister Packaging: Samples packaged in blister packs, such as powders, tablets, capsules, and contact lenses. Small Headspace Packaging: Packaging for granules, small-dose powders, and other packaging with extremely small headspaces.

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

Instrument Features:

1) The instrument uses a three-position switch for test process control, achieving one-button control of pressure increase, pressure holding, and pressure release, making operation more convenient and performance more stable.

2) All pneumatic components are from well-known manufacturers, ensuring stable and reliable performance. This eliminates pressure instability caused by pneumatic components.

3. High-quality acrylic sealing container with a wall thickness increased to 15mm, effectively enhancing the container's pressure resistance and extending its service life.

4. Three independent electronic control valves allow for independent operation of pressure boosting, pressure holding, and pressure releasing, reducing mutual interference.

5. PVC operation panel with digital pressure display and a resolution accurate to 0.1kPa, allowing users to accurately view pressure values.

6. Built-in time display with a synchronized pressure holding start timer for easy recording and observation of pressure holding time; the timer automatically resets to zero upon pressure holding end.

7. The instrument casing is made of stainless steel with a high-temperature powder coating process, effectively preventing oxidation and rust, making the instrument more durable.

8. The instrument comes with a built-in compressed air filter (compressed air not provided) and a vacuum air filter. These externally mounted devices facilitate water drainage and impurity removal.

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 sample's 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 its shape recovery after the vacuum is released are observed to determine the sample's sealing performance.

Technical Parameters:

Item	KASON-ST90 Sealing Tester
Vacuum Range	0 ~ -90kPa
Vacuum Accuracy	0.5 grade

Vacuum Resolution	0.1kPa
Vacuum Storage Time	0 ~ 9999h59min59s
Control Method	One-button control of pressure and timing
Display Method	Digital display of pressure and time
Gas Source Pressure	0.5 MPa ~ 0.7 MPa (Gas source to be 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	AC220V 50Hz
Net Weight	Approx. 12KG
Reference Standards	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"

Product Configuration:

Standard Configuration: Main unit, sealing container, compressed air filter, vacuum gas filter, air hose, power cord, 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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