KASON-ST905 Seal Tester

Instrument Overview:

Suitable for conducting seal integrity tests on packaging bags, bottles, tubes, cans, boxes, and similar containers across various industries, including food, pharmaceuticals, medical devices, daily chemicals, automotive, electronic components, and stationery. It can also be used to assess the sealing performance of test specimens that have previously undergone drop or pressure resistance testing.

Applicable Industries:

1] Food Industry: Flexible Packaging—Bagged milk powder, cheese, coffee sticks/packets, mooncakes, seasoning packets, snack foods, tea bags, bagged rice, potato chips, pastries, puffed snacks, Tetra Pak cartons, melon seeds... essentially any food bag of any shape, material, or size. Semi-Rigid Packaging—Chilled fresh meat, fruit and vegetable salads, trays, soft-pack canned goods, yogurt, ketchup, tub-packed potato chips (snacks), jelly... any semi-rigid packaging of any shape, material, or size. Rigid Packaging—Canned milk powder, beverage bottles, oil drums, metal cans, tub-packed biscuits, coffee bottles, pull-tab cans, seasoning bottles... any rigid packaging of any shape, material, or size.

2] Pharmaceutical Industry: Sealed Containers—Vials, ampoules, syringes, oral liquid bottles, eye drop bottles, sterile bags, IV bags/bottles, liquid injectables, powder injectables, BFS bottles, API bottles, BPC bottles, FFS bottles, etc.; essentially any sealed container of any shape, material, or size. Blister Packaging—Samples packaged in blister packs, such as powders, tablets, capsules, contact lenses, etc. Low-Headspace Packaging—Packaging with minimal headspace, such as effervescent granule packets, small-dose medicinal powders, etc.

3] Others: Tyvek® packaging, various types of aluminum foil bags, wet wipes, cosmetic packaging, and more.

Instrument Features:

1] Features manual pressure adjustment and pressure-holding control, offering more convenient operation and more stable performance.

2] All pneumatic components are sourced from renowned manufacturers, ensuring stable and reliable performance. This effectively eliminates issues related to unstable pressure retention that may otherwise arise from pneumatic component malfunctions. 3] High-quality organic glass (acrylic) sealing chamber with a wall thickness increased to 15 mm, effectively enhancing the chamber's compressive strength and extending its service life.

4] Dual pressure-holding mechanism—featuring a 304 stainless steel ball valve combined with a specialized one-way valve for negative pressure applications—ensures a significantly longer pressure-holding duration.

5] PVC control panel featuring an analog pressure gauge display; this provides instant, precise readings, allowing users to accurately monitor pressure values with ease.

6] One-touch operation for pressure buildup, pressure holding, and pressure release; the testing process is streamlined and efficient, requiring no unnecessary manual steps.

Testing Principles:

1] By evacuating the vacuum chamber, a pressure differential is created between the interior and exterior of a specimen submerged in water; the specimen's sealing performance is determined by observing whether any gas escapes from within the specimen.

2] By evacuating the vacuum chamber, a pressure differential is created across the specimen; the specimen's sealing performance is determined by observing its expansion under vacuum and the extent to which it recovers its original shape after the vacuum is released.

Technical Parameters:

Model: KASON-ST905

Pressure Range: 0 to -90 kPa

Accuracy Class: 2.5

Control Method: Manual pressure adjustment and pressure holding

Display Method: Analog gauge display (pointer type)

Air Source Pressure: 0.7 MPa (Air source to be provided by the user)

Air Source Interface: Φ6 mm polyurethane tubing

Effective Dimensions of Vacuum Chamber: Φ270 × 210 mm (H) (Standard configuration) Note: Other dimensions available via customization.

Overall Dimensions: Main Unit: 420 (L) × 320 (W) × 130 (H) mm; Sealing Chamber: Φ300 × 350 mm (H)

Net Weight: 12 kg

Standard Configuration: Main unit, sealing chamber, air tubing, power cord, user manual

Reference Standards: GB/T 15171 "Test Methods for Seal Performance of Flexible Packages"

ASTM D3078 "Standard Test Methods for Leaks in Heat-Sealed Flexible Packages by Visual Examination"

Product Configuration:

Standard Configuration: Main unit, sealing chamber, air tubing, technical documentation

Optional Accessories: Additional sealing chambers, air compressor, specimen holder, non-standard customization services

Note: The air source interface on this unit is designed for Φ6 mm polyurethane tubing; the air source must be provided by the user.

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