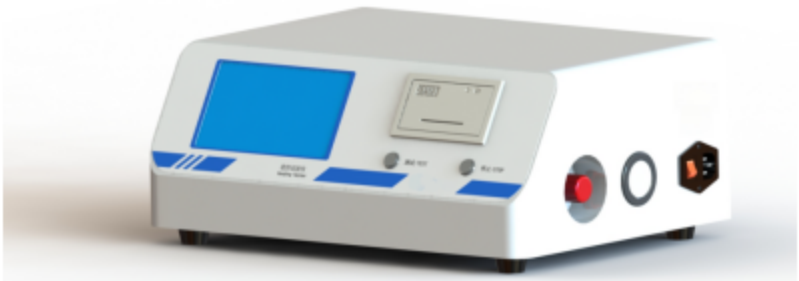
KASON-ST500 Integrated Positive/Negative Pressure Seal Tester



The KASON-ST500 Integrated Positive/Negative Pressure Seal Tester employs a combined positive and negative pressure testing principle. It is suitable for a wide range of sterile packaging—including vials, ampoules, infusion sets, medical catheters, infusion bags, pre-filled syringes, eye drop containers, medical devices, blister packs, and vacuum packaging—to meet various testing requirements such as microbial ingress challenge tests, dye penetration tests, internal pressure tests, and more. Furthermore, it fulfills various detection requirements regarding seal integrity, leak resistance, and pressure resistance using both positive and negative pressure methods.

Product Features:

Industrial-grade 8-inch color resistive touch screen with a menu-driven interface, allowing for real-time viewing of test data and test curves.

Features an integrated positive/negative pressure design, enabling simultaneous execution of various seal integrity tests, including the water bath bubble method, dye penetration method, and microbial ingress challenge tests.

The entire testing process is streamlined via "one-touch" operation, effectively enhancing testing efficiency.

Equipped with high-speed, high-precision sampling chips to ensure the real-time nature and accuracy of test data.

Utilizes pneumatic components from renowned brands, ensuring stable and reliable performance.

Configured with a 5μm compressed air filter to effectively remove impurities and moisture from the compressed air supply.

Offers a wide testing range capable of satisfying diverse experimental requirements.

Features an automatic constant-pressure air replenishment function to ensure that tests are conducted under precisely preset pressure conditions.

Includes an automatic back-flush pressure relief function to ensure a smooth and seamless conclusion to the testing process.

Parameters such as positive pressure, negative pressure, and pressure-holding duration can all be preset; simply entering the desired values automatically initiates the test mode.

Incorporates a sample holding basket design, ensuring that samples remain fully submerged in the test solution while preventing direct contact between the operator and the solution during testing.

Adopts an integrated pneumatic circuit design, which effectively maintains system pressure and

contributes to extending the service life of the equipment.

Supports multi-level user permission settings and features functions such as test record audit trails and data integrity assurance, thereby complying with relevant GMP requirements.

Test curves are displayed in real-time, allowing users to quickly review test results, with support for browsing historical data.

Equipped with a micro-printer for real-time printing of test data.

Technical Specifications:

Parameter Value
Test Range Positive Pressure 0 – 500 kPa (Standard) *Note: Other ranges available upon request.
Negative Pressure 0 – -90 kPa
Test Accuracy Class 0.5
Pressure Resolution 0.01 kPa
Test Modes Positive Pressure, Negative Pressure, Positive-Negative, Negative-Positive, Incremental Negative, Incremental Positive; Six modes available.Compressed Air Requirement 0.7 MPa
Pressure Holding Time 0 – 120 min
Air Source Interface Φ6 mm Polyurethane Tubing
Power Supply AC 220V, 50Hz
Dimensions Main Unit: 400 mm (L) × 300 mm (W) × 190 mm (H)
Net Weight Approx. 20 kg

Product Configuration

Standard Configuration: Main Unit, Micro-printer, Test Fixture.
Optional Accessories: Computer, Specialized Software, Communication Cable, Transparent Acrylic Test Tank (for negative pressure), 10L Stainless Steel Test Tank (suitable for both positive and negative pressure), Stainless Steel Sample Retaining Basket, Sample Retaining Basket, Non-standard Test Accessories.
Note: The air source interface on this unit utilizes Φ6 mm polyurethane tubing.

FOCUS IN MATERIAL TEST

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