

HST-YG812Q(II) Water permeability tester



Instrument Application:

Used to determine the water penetration resistance of dense fabrics such as canvas, tarpaulins, sheeting, tent fabrics, and rainproof clothing. It can also be used to test the resistance of rubber or plastic-coated fabrics to water penetration for a fixed period of time when subjected to a certain hydrostatic pressure.

Compliant standards:

- HG/T 2582-2008 Rubber or Plastic Coated Fabrics - Determination of Resistance to Water Penetration
- GB 19082-2009 Technical Requirements for Disposable Protective Clothing for Medical Use - 5.4.1 Water Penetration Resistance
- GB/T 4744-1997 Textile Fabrics - Determination of Water Penetration Resistance - Hydrostatic Pressure Test
- GB/T 4744-2013 Textiles - Testing and Evaluation of Waterproofing - Hydrostatic Pressure Method
- ISO 1420 Tents - Determination of Water Penetration Resistance of Coated Fabrics (Hydrostatic Pressure)
- AATCC 127, ISO 811-1981, JIS L1092-1998, DIN EN 20811-1992 (replaces DIN53886-1977), FZ/T 01004 and other standards.

Instrument Features:

1. High-pressure pneumatic clamping with adjustable clamping tension supports large and small ranges,

suitable for testing a wide range of products.

2. The sample clamping and activation device features a safety guard design to ensure operator safety.
3. Imported water-injection pressurization system with digitally adjustable pressurization speed is suitable for testing a wide range of materials.
4. Three-color adjustable light source adapts to various product types and provides more intuitive observation.
5. Color touchscreen display and operation provide ease of use and a high-end aesthetic.
6. The device automatically initiates the test after clamping, eliminating the need for multiple operator interventions, reducing test steps and operator workload.
7. Equipped with a handheld rapid recording device, the operator can quickly record test results while observing the sample being tested.
8. Transparent protective cover over the test surface allows for real-time monitoring of the test status and prevents sample rupture and liquid splashing.
9. The device features a durable, plastic-sprayed housing, a metal panel, metal buttons, and a special aluminum test surface. Anti-corrosion treatment ensures corrosion resistance and a lifetime of rust-free operation.
10. High-quality stainless steel clamps with imported gaskets ensure easy tightening without damaging the sample.
11. A 32-bit microcontroller and high-precision pressure sensor provide automatic pressure tracking and measurement.

Technical parameters:

1. Measurement range: 0-500kPa (50mmH₂O), resolution: 0.01kPa (1mmH₂O)
2. Measurement accuracy: $\leq \pm 0.5\%$ F•S
3. Number of tests: ≤ 99 , select the delete function.
4. Test methods: Pressurization, constant pressure, water leakage
5. Constant pressure hold time: 0-99999.9s; timing accuracy: ± 0.1 s
6. Specimen clamping area: 100 cm²
7. Total test time range: 0 to 9999999.9, accuracy: ± 0.1 s
8. Pressurization rate: (0.5 to 80) kPa/min (50 to 8000 mmH₂O/min), digitally adjustable over a wide range, suitable for testing a variety of materials.
9. Maximum flow rate: ≤ 200 ml/min
10. Power supply: AC220V, 50 Hz, 50W
11. External size : 400 mm × 450 mm × 500 mm (L × W × H)

12. Weight: 45 kg

Configuration list (standard):

- 1.Host machine 1unit
- 2.Printer interface;
- 3.Soft rubber sealing gasket 2pcs
- 4.Product certificate 1pc
- 5.Product User Manual 1pc

Optional list:

- 1、High-quality silent air pump 1 unit