

Textile and Leather Air Permeability Tester

The air permeability tester accurately measures the resistance of textiles and leather to air passage. Its precise control mechanisms and user-friendly interface ensure reliable performance and consistent results.



Overview

Precision Air Permeability Testing

This advanced testing instrument accurately and swiftly determines the resistance of woven, knitted, and nonwoven textiles, as well as leather, to the passage of air. It operates under constant pre-set air pressure while the sample is firmly clamped in the test rig. Designed for quality control and R&D, the system features automatic pressure adjustment and identification of test heads to ensure consistent, reliable results.

Technical Specifications

Key Performance Metrics

3000 Pa

Maximum Pressure

2 %

Accuracy

40000 mm/s

Max Air Velocity

Pressure Range	10 - 3000 Pa
Total Test Time	10 - 58 seconds
Data Port	RS232C

Capabilities

Included Test Heads

- 5cm²
- 20cm²
- 25cm²
- 38cm²
- 50cm²
- 100cm²

Supported Measurement Units	mm/s, cfm, cm ³ /cm ² /s, l/m ² /s, l/dm ² /min, m ³ /m ² /min, m ³ /m ² /h
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Compliance

Supported Testing Standards

ASTM D737 • ISO 9237 • ISO 7231 • BS 5636 • JIS L1096-A • DIN 53887 • ASTM D3574 • GB/T 5453 • EDANA 140.1/2 • TAPPI T251 • AFNOR G07-111

Features

Key System Features

- Automatic test mode
- Automatic pressure adjustment
- Mute suction pump
- Automatic identification of test head
- Fully enclosed pipe leakage < 0.1l/m²/s
- Automatic switch between coarse and fine adjustments