

TQD-01 Air Permeability Tester

TQD-01 Air Permeability Tester is professionally designed for the determination of air permeability of decorating materials used in cars, separation membrane, sponge, carpet, non-woven fabric, leather, PVC, textiles and other materials. Through the test, physical characteristics of materials could be controlled to meet practical application requirements.



Technical Features

- Designed according to the standard requirements of global automakers
 - 2 test modes are available for customers: fix pressure difference to test flux and fix flux to test pressure difference
 - High-precision electronic airflow and air pressure sensors ensure the accuracy of test data
 - Embedded high-speed microcomputer chip control, simple and efficient human-computer interaction interface, providing users with a comfortable and smooth operating experience
 - Standardization, modularization, and serialization design concepts can meet the individual needs of users
 - Well-designed UI interface, touch screen operation
 - 7" HD color LCD screen, display test data in real time
 - Imported high-speed and high-precision sampling chip to effectively ensure the accuracy and real-time performance of the test
 - Automatic blowback and unloading function to make the end of the test simple and smooth
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Test Principle

- Method A
Providing a constant air flux going through the specimen vertically, the air permeability could be obtained by measuring the pressure difference.
- Method B
Providing the constant pressure difference between two sides of the specimen, the air permeability could be obtained by measuring the air flux through specific area in the certain time.

Applications

Basic Application	Decorating Articles of Cars	Test the air permeability of car decorating materials, e.g. polyurethane, PVC, leather, textiles and non-woven materials
	Elastic and Porous Polymer Materials	Test the air permeability of elastic and porous polymer materials, e.g. sponges
	Textiles	Test the air permeability of textiles, e.g. cloth and non-woven
	Leather	Test the air permeability of leather
Extended Application	Paper	Test the air permeability of paper materials, e.g. daily removable tissue and toilet rolls

Technical Specifications

Specifications	TQD-01
Test Range of Pressure	0 ~ 1000 Pa
Test Range of Flux	0 ~ 30 L/min
Specimen Size	Method A: 52 mm x 52 mm
	Method B: $\Phi 12 \text{ mm} \leq D(\text{diameter}) \leq \Phi 71 \text{ mm}$
Port Size	$\Phi 8 \text{ mm}$ PU Tubing
Instrument Dimension	502mm (L)×334 mm (W)×298mm (H)
Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight	26Kg

Standards

ISO 9237, ISO 4638, ISO 5636, GB/T 10655, GB/T 5453, GB/T 4689.22, GB/T 13764, ASTM D737, TAPPI T460, JIS P8117

Configuration

Standard configuration: Instrument, LCD touch screen, Micro printer, Fixtures, Sampler, Vacuum Pump

Optional configuration: Professional Software, Communication Cables, Customized Fixtures

Note: The gas supply port of the instrument is $\Phi 8$ mm PU Tubing
