ChiuVention

AirFicient
Air Permeability Tester

AirFicient tests the air permeability of various textiles. These include technical textiles, nonwovens, and other breathable products like sponge paper. It is simple to operate. You can select the test standard and unit of measurement on the screen. The instrument automatically recognizes the test fixture head's ranges. This allows for quick testing and results in seconds. High-quality, maintenance-free core and range conversion components ensure reliable, repeatable test results. A self-designed calibration system ensures the test is always accurate. Canada Goose HQ is using the instrument, and the world's No. 1 electric car brand (USA) uses the instrument for testing automotive interiors.

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⚡	**Power**	220/110V 50/60Hz
⚖	**Weight**	125kg
📏	**Dimension**	970*400*970 mm(L*W*H)

Specification

Measurement units:	mm/s, m/s, l/m²/s, ft³/min/ft², cfm cm³/s/cm², l/s/cm², l/m²/min 1/dm²/min ,l/min, m³/min, dm³/s m³/s/m², m³/min/m², m³/h/m², ft³/s/ft²
Test Mode	Automatic
Test head	20 cm² (standard)
Test pressure	10 ~ 2,500 Pa
Air velocity	0.6 ~ 10,000 mm/s (20 cm²)
Measurable sample thickness range	0 ~ 10 mm (other thicknesses and fixtures can be customized)
Testing Accuracy	< +/-2%
Optional test heads	5 cm², 25 cm² (5*5cm), 38 cm², 50 cm², 100 cm²

Standard
GB/T5453 ISO 9237
ISO 9073:15 JIS L1096 Item8.26 Method C
BS 3424-16 BS 6F 100 3.13
NWSP 070.1.RO(15) GB/T 24218.15

Optional standard
ASTM D737

- **More reliable test results**
  Test results are highly consistent with third-party authoritative testing organizations. High-quality core components and range conversion components are maintenance-free and wear-free, bringing high repeatability and reliability to test results.

- **Self-designed calibration system ensures accurate testing at all times**
  The calibration system has been tested by a third party and is authoritative and reliable, making it convenient for users to calibrate the instrument at any time.

- **User-friendly design for fast test and low noise**
  AirFicient is easy to operate, you can select the test standards and measurement units on the operation screen. The instrument also automatically recognizes the different ranges of the test fixture head. The AirFicient is quick to test, delivers results in seconds, and operates at low noise levels.
  Canada Goose (Canada headquarters) and the world's No. 1 electric car brand (USA) uses the instrument for testing automotive interiors.

- **Smart Air Permeability Test**
  The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.