

N600P Paper and Cardboard Air Permeability Tester **GBPI**[®]



The N600P Air Permeability Tester is designed to measure the air permeability of paper and cardboard using three established methods: Gurley, Schopper-Riegler, and Bendtsen. This versatile instrument ensures accurate and reliable results for a variety of materials and applications.

Operating Principle

Gurley Method: Measures the time taken for 100ml of gas to pass through the sample at a constant pressure difference of 1.23 kPa.

Schopper-Riegler Method: Determines the air flow rate through the sample by measuring the volume under a constant pressure difference of 1.00 kPa \pm 0.01 kPa or 2.50 \pm 0.01 kPa over a selected test duration.

Bendtsen Method: Records the air flow through the test surface at a constant pressure difference of 1.47 kPa after clamping for 5 seconds.

Standard

ISO 5636-5 (Gurley method), ISO 5636-2 (Schopper method), ISO 5636-3 (Bendtsen method), TAPPI T460

Specifications

Test Range	0.1~10 $\mu\text{m}/(\text{Pa}\cdot\text{s})$
Resolution	0.001 $\mu\text{m}/(\text{Pa}\cdot\text{s})$
Pressure difference range	0~3 kPa
Pressure resolution	0.001 kPa
Test area	6.42cm ² or 10.0cm ²
Sample size	> 50 mm x 50 mm
Instrument size	L x W x H: 450 x 400 x 300 mm
Power	100 W
Power supply	110-250 VAC, 50Hz

Features

Versatile Testing: Integrates Gurley, Schopper-Riegler, and Bendtsen methods, allowing users to select the method that best suits their testing needs.

Flexible Test Area: The test area can be switched between 10.0 cm² and 6.42 cm² by changing the fixture.

High Sealing Efficiency: Ensures minimal air leakage, not exceeding 1.0 mL/h.

User-Friendly Interface: Features a color touch screen, eliminating the need for an external computer and allowing real-time observation of air permeability.

Built-In Micro Printer: Prints test reports in real time for immediate results.