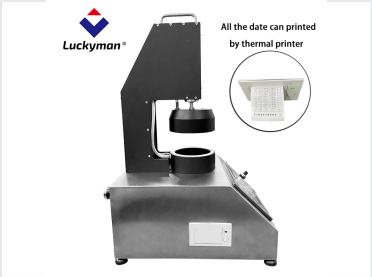
Air Flow Resistance Tester for Face Mask Melt-Blown Fabrics

This air flow resistance machine is a differential pressure tester designed for evaluating the air permeability of melt-blown fabrics used in face masks. It measures the pressure drop across the material at a specified airflow rate, providing crucial data for assessing breathability and filtration efficiency.



ADDITIONAL IMAGES

Overview

The testing unit features a clear digital interface and integrated air-flow regulator for precise 8-160L/min control.

Professional Air Flow Resistance Testing

This differential pressure tester is specifically designed to evaluate the breathability and filtration efficiency of melt-blown fabrics and various face mask types. It features a high-resolution touch screen with a bilingual interface and an imported flow sensor chip for high-accuracy measurements without needing temperature compensation. With its integrated thermal printer and large internal memory, it provides a complete solution for quality control and compliance testing in mask production.

Technical Performance

Simplified one-button operation ensures high efficiency during repetitive quality control tests.

Rear panel features dedicated ports for vacuum pump integration and pneumatic pipe insertion.

Test Flow Range

8 L/min	160 L/min
Min Flow	Max Flow

Accuracy & Stability

- Imported flow sensor chip
- No temperature pressure compensation required
- Special flow rate adjustment element
- External vacuum pump to reduce vibration

Pressure Scale	1500 Pa

Compliance & Standards

International Standards

Region	Standard Codes
China	GB2626-2006, GB/T 32610-2016, YY 0969, YY/T 0469
Europe	EN149, EN14683
USA	NIOSH

Application Range

Compatible Materials	Melt-blown Fabric, Non-woven Fabric, Composite Cloth, Flat Face Mask, 3D Face Mask, Cup Shape Face Mask, KN95, N95

Interface & Data

User-friendly touch screen supports both Chinese and English for global laboratory use.

System Features

Touch Screen • Chinese/English Interface • Thermal Printer • Real-time Data Record

Data Storage	1000 sets

Physical Specifications

Compact 18kg design suitable for desktop laboratory environments.

Securely packed in foam and heavy-duty carton for safe international transit.

Net Weight	18 kg
Machine Dimensions	650mm x 440mm x 330mm
Shipping Package	Foam Box and Carton Box (50.5 x 41.5 x 72 cm)