



Face Mask Differential Pressure Tester



STANDARDS

EN 14683

Face Mask Air Flow Resistance and Differential Pressure Tester

Face Mask Differential Pressure Tester is used for face mask air flow resistance and differential pressure testing to check breathability and can also be used to check differential pressure of textile materials gas exchanger.

APPLICATIONS

The Face Mask Differential Pressure Tester is designed to evaluate airflow resistance and breathability of face masks and related materials. It is commonly used in mask production, quality control labs, and compliance testing environments to assess wearer comfort and conformity to regulatory standards.

This tester is also suitable for analyzing the differential pressure characteristics of other gas-permeable materials, such as textiles used in filtration or medical applications. It helps determine how easily air passes through the material while accurately measuring the pressure drop across the sample.

With its straightforward operation and reliable output, the instrument supports routine testing during manufacturing and product development. It's particularly valuable when verifying whether a mask design maintains adequate airflow without compromising protective performance.

Whether used for certification or internal quality checks, this device ensures consistent and objective measurement of breathability across different mask types and material structures.

FEATURES

- Equipped with special sample grip, easy to use.
- Built-in HD touch screen.
- Built-in micro printer, easy to print test results.
- Equipped with high-precision differential pressure sensor, digitally display the pressure difference between the two sides of the sample;
- Equipped with high-precision gas flow control, real-time digital display of air flow to stably control air flow, manually setting available.
- Test time can be adjusted according to test requirements

THEORY & METHOD

The output of the air flow is set by a gas flow meter, the air flow passes through a certain area of the test sample, the current pressure is detected by a pressure sensor, and the pressure difference is calculated.

TECHNICAL SPECIFICATIONS

Item	Technical Parameters
Gas Source	Compressed Air
Air Flow	Adjustable 1 - 10L/min, (Standard Air Flow 8L/min)

Item	Technical Parameters
Sample Size	Φ25mm
Differential Pressure Sensor Range	0□ 500Pa
Display Mode	Touch Screen
Power Supply	220V, 50Hz



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