

## AKUSTRON Air Permeability

AKUSTRON measures the air permeability of filter papers, non-wovens and textile fabrics within seconds. Easily transportable, this unit is ideal for monitoring material on the production line, inspecting incoming material on-site and on-going quality control in the lab. Constructed of the most rugged materials, the AKUSTRON withstands the demands of constant usage.

### Operation

Automated testing ensures there are no user related variables. The sample is inserted into the slot, and the lever is pulled forward. This clamps the sample and begins the testing automatically. The method of measurement is based on two, long-life approved speakers. The speaker in the lower enclosure generates an oscillating air-column which displaces air through the test sample. A second speaker in the upper enclosure works as a sensor and measures the amount of air that passes through the clamped sample. The measurement is completed in about 3 seconds, and results are shown immediately on the integrated digital display. An RS-232 interface is able to send the test data directly to a PC.

AKUSTRON software is included and automatically displays the test data into an already opened spreadsheet. The data can also be downloaded directly to a company's existing quality control program.

The ease of operation ensures highly repeatable results and studies have proven that the results correlate accurately with DIN 53 887, DIN 53 120, ISO 9237 and ASTM D 737-96. A brass test-plate is available to check the accuracy on a regular basis.



**▲AKUSTRON Air Permeability tester is ideal for webbed materials**

### Features

- Hand lever, automated testing
- 14,2 mm high digital display
- Brass test-plates for accuracy verification
- RS-232 interface cable option
- Correlates to DIN 53 887, DIN 53 120, ISO 9237, and ASTM D 737-96



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## Physical Specifications

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### Dimensions

200 mm H x 160 mm W x 270 mm L  
(8 in x 6.3 in x 10.6 in)

### Weight

5 kg (11 lb)

### Sample Dimensions

Size: 5 x 12 cm minimum (2 in x 5 in)  
Thickness: 3 mm max. (0.12 in)

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## Performance Data

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### Measurement Range

Air permeability between:  
4 to 400 cfm (cb.ft/sq.ft min) at  $\Delta p = 0.5$  inch H<sub>2</sub>O = 127 Pascal  
30 to 3000 l/m<sup>2</sup> s at  $\Delta p = 200$  Pascal  
30 to 3000 mm/s at  $\Delta p = 200$  Pascal

### Data Interface

RS-232 serial interface, Baud Rate: 9600, Parity: None, Address: 1

### Power Requirements

110-120/220-240 VAC @ 50/60 Hz

### Power Usage

30 V/A

### Power Fuse

500 mA



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