

AIR PERMEABILITY TESTER



The Akustron air permeability tester 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 aircolumn 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.

Features

- A quick and comfortable way to measure air permeability: it's as simple as inserting the sample and operating the lever - after 3 seconds, the value is shown on the display
- Hand lever, automated testing
- 14,2 mm high digital display
- RS-232 interface cable option that allows reading the measured value directly to a personal computer
- The included software is able to list the values into each standard spreadsheet as well as into your quality control program

Technical specifications

Measurement range

Air permeability between :

4 to 400 cfm (cb.ft/sq.ft min) at $r_p = 0.5$ inch

H₂O = 127 Pascal

3 to 3000 l/m² s at $r_p = 200$ Pascal

3 to 3000 mm/s at $r_p = 200$ Pascal

Power requirements

110-120 / 220-240 V, 50/60 Hz

Power usage

30 V/A

Power fuse

500 mA

Physical specifications

Dimensions

16 x 27 x 20 cm (W x L x H)

Net Weight

5 kg

Sample dimensions

Size: 5 x 12 cm minimum

Thickness: 3 mm maximum

Options

- Two brass testplates for accuracy verification
- RS-232 interface cable option that allows reading the measured value directly to a personal computer