

Air Permeability Tester



Description

The Akustron Air Permeability Tester measures the air permeability of filter papers, non-wovens and textile fabrics. 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 laboratory. Constructed of rugged materials, the Akustron readily withstands the demands of constant usage.

Operation

Automated testing ensures there are no user-induced variables. The sample is inserted, a lever is pulled to clamp it and the testing begins 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 approximately 3 seconds and the results are shown immediately on the integrated digital display.

Features

- Hand lever initiated automated testing
- Two brass test plates for accuracy verification
- 14.2 mm high digital display
- Quick and easy to use
- Results displayed after 3 seconds from the start of the test
- RS-232 interface for sending test data directly to a PC and the bespoke Akustron software or an existing quality control program

Air Permeability Tester



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

Performance data

Measurement range

Air permeability between 4 and 400 cfm (cu ft/sq ft min) at $\Delta p = 0.5$

in H₂O = 127 Pa

30–3000 l/m² at $\Delta p = 200$ Pa

30–3000 mm/s at $\Delta p = 200$ Pa

Power requirements

110–120/220–240 V, 50/60 Hz

Power usage

30 V/A

Power fuse

500 mA

Standards

In accordance with DIN 53887, 53120, ISO 9237, ASTM D737-96