



Porous Material Inc. (USA)

Capillary Flow Porometer



Description :

The PMI Capillary Flow Porometer provides fully automated through-pore analysis including bubble point, pore size distribution, mean pore size, gas, liquid, and Frazier permeability, hydro-head, and integrity. PMI's Capillary Flow Porometer is versatile -- it allows the user to test samples under compression, tension, or elevated temperature, thereby simulating operating conditions. User-friendly and non-destructive, the Capillary Flow Porometer is an asset in quality control and R&D environments.

Applications / Features :

Industries worldwide, ranging from the filtration to non-wovens to battery industries, utilize the PMI Capillary Flow Porometer for R&D and quality control. Samples tested include filter media, membranes, paper, and battery separators.

- ✚ Allows testing of sample under tension, compression, or elevated temperature to simulate actual operating conditions
- ✚ Determines gas permeability of nearly impermeable samples (microflow permeability)
- ✚ Windows-based software handles all control, measurement, data collection, and report generation; complete manual control also possible
- ✚ Compatible with Windows 95 or higher
- ✚ Real-time graphical test display depicts testing status and results throughout operation
- ✚ Non-destructive testing
- ✚ Length of test approximately 10 minutes
- ✚ Wide range of acceptable sample sizes and types
- ✚ Transparent sample chamber for visual confirmation
- ✚ Minimal maintenance required

Specifications :

Pore Size Range	0.013 - 500 microns
Permeability Range	1 x 10⁻¹⁰ - 1 x 10⁻⁶ (Microflow in cc/sec/m/torr)
Sample Size	0.5" - 2.5" diameter
Pressure Range	0 - 500 PSI
Pressurizing Gas	Clean, dry, compressed air or nonflammable, non-corrosive gas
Pressure Transducer Range	0 - 500 PSI
Resolution	1 in 20,000
Accuracy	0.15% of reading
Mass Flow Transducer Range	10 cc/minute - 500 L/minute
Power Requirements	110/220 VAC, 50/60 Hz
Dimensions	30" H x 19" W x 18.5" D
Weight	100 lbs

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