



POROLUX™ 1000



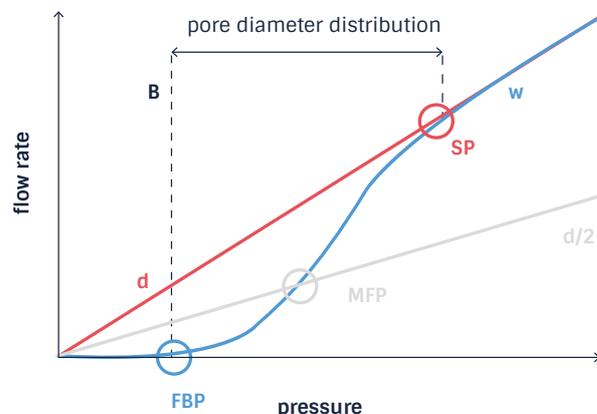
The POROLUX™ 1000 is a gas liquid displacement porometer that determines pore sizes based on the pressure step stability method. This means that a data point is only accepted on the condition that the user-defined stability algorithms for pressure and flow are met.

The POROLUX™ 1000 detects the opening of a pore at a certain pressure and waits until all pores of the same diameter are completely opened before accepting the data point. This method results in a very accurate pore size measurement and allows to calculate the true pore size distribution

Therefore, the POROLUX™ 1000 can be found in many R&D labs to characterize materials with complex pore structures of, amongst others, polymeric membranes (flat sheets and hollow fibers), ceramic membranes and porous metals.

Key features

- Measurable pore size range from ca. 13 nm to 500 µm⁽¹⁾
- Standard pressure range 0 – 34,5 bar (500 psi) with flow rates of up to 200 l/min
- Very fast and reproducible determination of first bubble point (largest pore according to ASTM F-316-03), mean flow pore size, smallest pore, pore size distribution, cumulative flow distribution & gas permeability
- Measured and calculated first bubble point
- Pressure step/stability method: advanced, multilevel stability algorithms for characterization of complex pore structures
- With our enhanced mathematical model, the following additional results can be calculated: total pore number, total pore area and open porosity
- Automatic switch for pressure and flow sensors
- Very intuitive and easy to use software, with unique features such as:
 - Re-evaluation button which allows to do a re-calculation on already performed tests
 - Built-in intelligence, e.g. algorithms for calculating bubble point, checking dry curve, wet/dry convergence, input pressure
- Ethernet and USB connection, making remote access for installation, support and diagnosis via the internet possible.



Measuring curves and resulting parameters in Capillary Flow Porometry
 w = wet curve
 d = dry curve
 d/2 = half-dry curve
 FBP = largest pore
 MFP = mean flow pore
 SP = smallest pore

POROLUX™ 1000 technical specifications

	POROLUX™ 1000
Measurement mode	Full porometry
Method	Pressure step/stability
Max pressure	34.5 bar/500 psi
Min pore ⁽¹⁾	13 nm
Max pore ⁽¹⁾	500 µm
Max flow	200 l/min
First bubble point	Measured & calculated
Dimensions (DxWxH)	530x530x755 mm
Weight	70 kg

(1) depending on the wetting liquid

About us

For more than 15 years, we have been manufacturing porometers of the highest quality and reliability. All of our porometers have been completely designed and built in-house, using the latest techniques and materials. This enabled us to create an installed base of hundreds of instruments around the world, both in R&D and quality control labs in corporations, universities and research centers.

Experts in porometry

Purchasing a porometer does not only mean acquiring a device, it also guarantees lifelong support and advice from our team of porometry experts. Measuring daily in our labs allows us to gain a lot of knowledge and insights in porometry. Knowledge we like to share with our customers by, amongst others, helping to find the right settings for the samples.

Wide range of solutions

As our porometer range covers all common capillary flow techniques – including gas liquid and liquid liquid porometers – and measurement methods (pressure scan and pressure step stability), we can offer the best porometer solution for any given application.

What's more, our porometer portfolio covers the widest possible pore size range: from 2 nm up to 500 μm . Potential clients that aren't sure which porometer is right for them, are welcome to have some samples analyzed free of charge by our specialized application labs.

Advanced software & connectivity

Even though our software is powerful and comprehensive, it's also very intuitive and easy to use. Furthermore, our porometers are equipped with an onboard ethernet port allowing remote access via the internet for installation, support, and diagnosis.



Global presence

Porometer has a global presence, with manufacturing sites, labs and offices in Europe, USA and China. Furthermore, we have an extensive network of highly trained distributors around the globe. This enables us to provide a first-class service anywhere in the world and to quickly follow up on any technical questions.



Part of Aptco Group

Our instruments are designed and manufactured in-house by our engineering and production department in Germany. Porometer is a brand of Aptco Technologies, a manufacturer of measurement instruments and testing equipment for academic and industrial quality control and research labs.



Aptco Technologies is part of Aptco Group, an international technology group of companies active in the distribution, manufacturing, servicing and calibration of scientific instruments and equipment for industrial, medical and academic laboratories.

Some of our customers



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