



## POROLIQ™



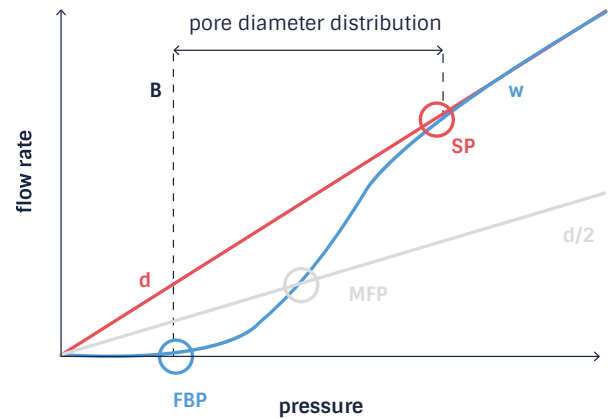
The POROLIQ™ is a liquid liquid displacement porometer that determines pore sizes based on the pressure step stability method. This means that a data point is only accepted on the condition that the user-defined stability algorithms for pressure and flow are met.

The POROLIQ™ will first detect the opening of a pore at a certain pressure but will wait 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, down to 2 nm, and allows to calculate the true pore size distribution.

The POROLIQ™ – widely regarded as the most accurate liquid liquid porometer on the market – is very well suited to detect very small pores, as well as to characterize pressure sensitive membranes such as hollow fibres.

## Key features

- Measurable pore size range from ca. 2 nm to 0.3 µm or to 1 µm, depending on the model <sup>(1)</sup>
- Standard pressure range 0 – 40 bar (580 psi) with flow rates between <math>\leq 1 \mu\text{l}</math> and 10 ml/min, depending on the model
- Fast and reproducible determination of the largest pore, mean flow pore, smallest pore, pore size distribution, cumulative flow distribution & permeability
- 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 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

## POROLIQ™ technical specifications

	POROLIQ™ AQ	POROLIQ™ ML
Measurement mode	Full porometry	Full porometry
Method	Pressure step/stability	Pressure step/stability
Max pressure	40 bar/580 psi	40 bar/580 psi
Min pore <sup>(1)</sup>	2 nm	2 nm
Max pore <sup>(1)</sup>	0.3 µm	1 µm
Flow range	<math>< 1 \mu\text{l}/\text{min}</math> - 10 ml/min	1 µl/min - 10 ml/min
Dimensions (DxWxH)	510x510x760 mm	510x510x760 mm
Weight	80 kg	80 kg
Displacement liquid	Water-based	Multiple liquids

(1) depending on the liquid combination

## About us

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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

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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

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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  $\mu\text{m}$ . 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

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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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