PRODUCT DATASHEET

# Pore Size and Porosity Measuring Skid – AL500





DETAIL – CLOSE-UP

## OVERVIEW

The Tech Inc. Pore Size and Porosity Measurement Skid (AL500) is a precision instrument engineered for rapid and accurate determination of pore size distribution and porosity in membrane materials. This specialised system utilises capillary flow porometry principles for comprehensive membrane characterisation.

## TYPICAL DESIGN DATA

| | |
|---|---|
| **Measurement Principle** | Capillary Flow Porometry (CFP) |
| **Pore Size Range** | 0.1 - 500 micrometers |
| **Mean Pore Size Accuracy** | Within 5% for controlled membranes |
| **Measurement Parameters** | Mean pore size, bubble point, largest pore, pore distribution, porosity percentage |
| **Sample Size** | Flat samples up to 47mm diameter (customisable) |
| **Operating Pressure Range** | 0.5 - 10 bar (configurable) |
| **Liquid Media** | Water, IPA, or custom liquids for specialised applications |
| **Data Output** | Comprehensive reports with graphical pore distribution curves |
| **System Configuration** | Compact skid-mounted unit with integrated controls and analysis software |
| **Power Requirements** | Standard laboratory power supply (100-240V) |

## APPLICATIONS

Membrane pore size distribution analysis for ultrafiltration (UF) and microfiltration (MF) membranes; quality control and batch testing of industrial membrane products.

## KEY ADVANTAGES

- Capillary flow porometer technology providing accurate pore size distribution (range: 0.1 - 500 micrometers)
- Fully automated measurement capabilities reducing analysis time and improving reproducibility
- Simultaneous determination of mean pore size, bubble point, pore distribution, and porosity percentage
- Non-destructive testing methodology preserving membrane samples for subsequent evaluation
- Wide measurement range accommodating porous membranes, filter media, and specialty materials

**How to cite:** Pore Size and Porosity Measuring Skid · AL500 (Tech Inc., Vaughan, Ontario, Canada). www.techincresearch.com/products/porometers/pore-size-porosity-al500

**Designed and built by Tech Inc.** · **Part of the Davey Group since 1990**

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

Disclaimer: All products, designs and content are the property of Tech Inc. Tech Inc. reserves the right to change specifications and details without notice. Images are for representation only; the supplied equipment may differ in appearance. Data are typical; final design to client specification.