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

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

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