

Automated Capillary Pressure Apparatus



AUTOMATED CAPILLARY PRESSURE

Description:

This is a modified version of the Manual Capillary pressure unit. The manual valves and pressure control systems are replaced by an automated system, including an electric gas regulator to accurately adjust the pressure and actuators. The operator can close/open the valve and accurately adjust the pressure to run the capillary pressure unit. In addition, a balance is provided with the unit to record the mass of the core plug after removing it from the capillary chamber. The apparatus comes with developed software for controlling the pressure system and generating the capillary pressure curves, as well as the pore size distribution.

Specifications:

- ◆ Maximum inlet pressure: 500 psi
- ◆ Operating pressure: 0-200 psi
- ◆ Minimum desaturation pressure: 0.1 psi
- ◆ Operating temperature: ambient temperature to 60°C
- ◆ Core holder inner diameter: 12.0 inches
- ◆ Core holder height: 5.0 inches
- ◆ Porous plate threshold pressure: 218 psi
- ◆ Electrical requirement: 110-240 VAC
- ◆ Pressure accuracy: 0.1% FS
- ◆ Gas phase type: any type of non-corrosive gas
- ◆ Liquid phase: deionized water
- ◆ Chamber material: stainless steel
- ◆ Computer based controlling unit

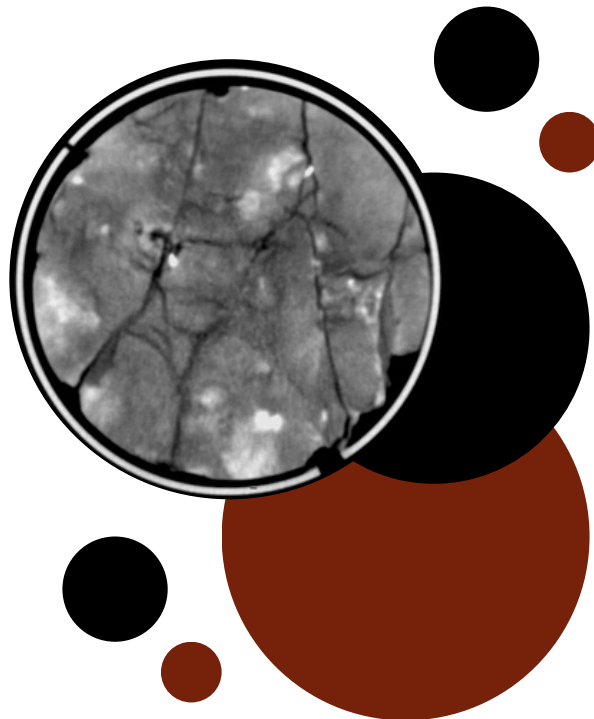
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Benefits:

- ◆ Offers automated system and computer-based control unit
- ◆ Minimizes failure damage to the unit
- ◆ Accurate pressure adjustment using a high-accuracy electric gas regulator
- ◆ Data logging system to monitor the pressure and amount of drained water from the system

Possible Upgrades:

- ◆ Increasing the height of the chamber to be used for a longer core plug
- ◆ Different porous plates with a narrower range of capillary pressure can be provided upon request



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