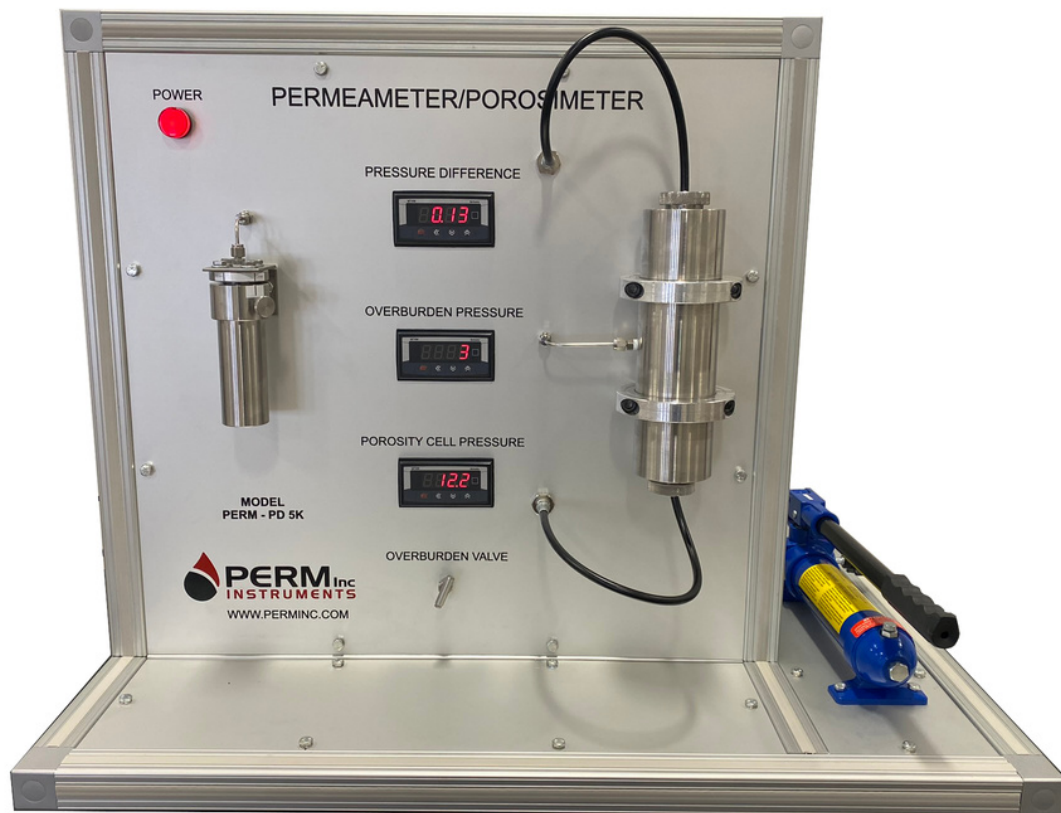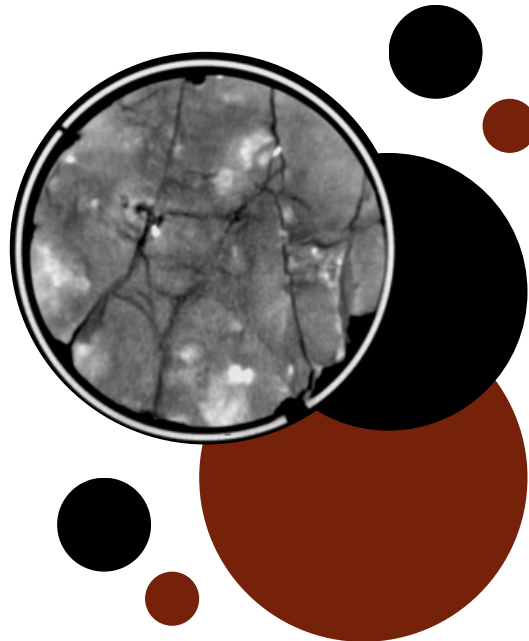# Fully Automated Poroperm System

FULLY AUTOMATED POROPERM

Description:

This unit is one of the most complete apparatuses. It can run porosity measurements, steady-state permeability measurements, and unsteady-state permeability measurements (Pulse decay) through fully automated systems. The system has two core holders of different sizes, one for small core plugs (i.e., 1.5-inch diameter) and another for whole core plugs (4-inch diameter). Several flow meters are used to cover a wide range of flow rates from 0-10 SCCM and 100-10,000 SCCM with 1%FS accuracy. High-accuracy pressure transducers included in the system can measure the pressure at different points of the system accurately. The porosity measurement is done under confining pressure up to 10,000 psi, where the pore pressure can increase to 500 psi which is suitable for tight core plugs. Also, there are two inlet ports for two different gases, Helium and Nitrogen.

FULLY AUTOMATED POROPERM

Specifications:

- Core holder diameter: 1.5 and 4.0 inches
- Core holder length: up to 6 inches
- Maximum pore pressure: up to 500 psi
- Confining pressure: up to 10,000 psi
- Gas type: Nitrogen or Helium
- Core holder material: stainless steel
- Permeability range: 10 nD to 10 D
- Porosity range: 1% to 60%
- Maximum measureable flow rate: 10,000 SCCM
- Flow rate measurement accuracy: 1% FS
- Accurate pressure measurement with 0.1% FS
- Three digital pressure displays for DP, outlet pressure, confining pressure
- Two separate core holders
- Water as confining pressure fluid having minimum damage in case of sleeve failure
- Fully automated systems with full control through the PC
- Porosity measurement under confining pressure

Benefits:

- Integrated unit offers both porosity and permeability measurements
- Wider range of permeability and porosity
- Adjustable core holder size
- Suitable for two different gases
- Fully automated control through the developed software

Possible Upgrades:

- The core holder length can be increased to 12 inches, and the diameter can be increased to 4 inches

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