

Manual Capillary Pressure Apparatus

MANUAL CAPILLARY PRESSURE

Description:

This is a simple and low-cost capillary pressure apparatus that is very useful for instructional and educational purposes. This capillary pressure unit includes two regulators, one 218 psi porous plate, a core holder chamber, and a pressure transducer. There is no data logger in the unit for reading and recording.

Specifications:

- ◆ Maximum inlet pressure: 300 psi
- ◆ Operating pressure: 0-200 psi
- ◆ Minimum desaturation pressure: 0.5 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

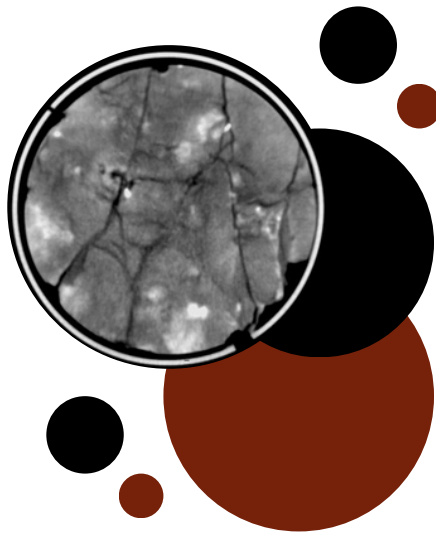
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Benefits:

- ◇ Designed to evaluate the capillary pressure-desaturation curve for the drainage process, where the gas phase displaces the water phase trapped in the pore-throat space of the core plug
- ◇ Enables the operator to measure the capillary pressure curve for multiple core plugs of various sizes at the same time within a broad range of pressures
- ◇ Unique, user-friendly design

Possible Upgrades:

- ◇ A data logger can be added to store pressure data
- ◇ Additional developed software can be added to generate the capillary pressure and pore throat size distribution curves
- ◇ Different porous plates with a narrower range of capillary pressure can be provided upon request



CONTACT

PERM Inc.

Bay 3, 2221 41 Avenue NE

Calgary, AB T2E 6P2

+1 (587) 794-3364

info@perminc.com

