

The most efficient laboratory method to obtain relative permeability is the unsteady state method. The bench top core flood system is an apparatus for performing core flood tests at reservoir conditions using refined or live fluids to determine specific, effective, and relative permeability. In the designed Systems, the core holder, valves, accumulators, produced fluid separator and necessary plumbing are mounted in a way that providing easy access to all components during the test. Confining pressure is controlled using the manual confining pressure system using a hydraulic pump and its components. The control allows calculating different parameters such as production history, relative permeability curves based on the different approaches.

Features:

- Unsteady state relative permeability tests

- Enhanced oil recovery tests
- Formation damage and remediation tests

Specifications:

- Maximum confining pressure: 10000 psi - Higher pressures available
- Maximum pore pressure: 10,000 psi (higher pressures available with different pumps)
- Maximum operating temperature: 300 °F (150 °C) - Higher temperatures available
- Minimum end effects
- Core length: 1" to 6" standard (other lengths available upon request)
- Pressure tap spacing: 2.0" unless otherwise specified
- Core diameter: 1.0" and 1.5" (optionally 30 mm)
- Flow rate range: 0.001 to 50 cc/min with pump
- Pore fluid wetted parts: Stainless Steel 316

