

Liquid-Liquid Unsteady State Relative Permeameter URP-ES30



Description:

The Unsteady-State Relative Permeability Measurement System, URP-ES30, is designed to conduct basic and cost-effective linear displacement tests for immiscible and incompressible fluids. This system is versatile, capable of performing various injection protocols to measure relative permeability using different analysis methods, including Johnson-Bossler-Naumann (JBN), modified JBN, Toth et al., and the Jones-Roszelle methods. The unsteady-state method is particularly well-suited for measuring endpoint values of the non-wetting phase. The URP-ES30 system offers a flexible platform for conducting unsteady-state relative permeability studies for liquid/liquid at reservoir pressure and temperature.

Technical Specification:

- Hassler Core Holder
 - o Core Diameter: 1.5", Maximum Core Length: 3.5"
 - o Maximum Working Pressure: 400 bar and Maximum Confining Pressure: 600 bar
- Off-line software for calculating relative permeability using JBN, modified JBN, JR, and Toth et al. methods.
- Pressure Transmitter × 2, Accuracy: 0.1% full scale
- Differential Pressure Transmitters × 2, Accuracy: 0.1% full scale
- Maximum Working Temperature: 100°C
- Fluid Accumulator × 3: 500 cc, Miniature Fluid Accumulator: 100 cc for system rinsing
- Gasometer × 1
 - o Volume: 4 liters
 - o Pressure Accuracy: 0.5% full scale, Temperature Accuracy: 0.5% full scale
 - o Linear Encode Accuracy: 5 μm
 - o Wetted Parts: Stainless Steel 316
- Hydraulic Pump, Wetted Parts: Stainless Steel 316
- Data Acquisition System
- Software for recording temperature and pressure



Shiraz Technology Park of Chemical Industries, Industrial Estate, Shiraz, Iran

Tel No: +98 7137744659

Phone No: +98 9177106084

Email: eortech.official@gmail.com

Website: fet-co.com