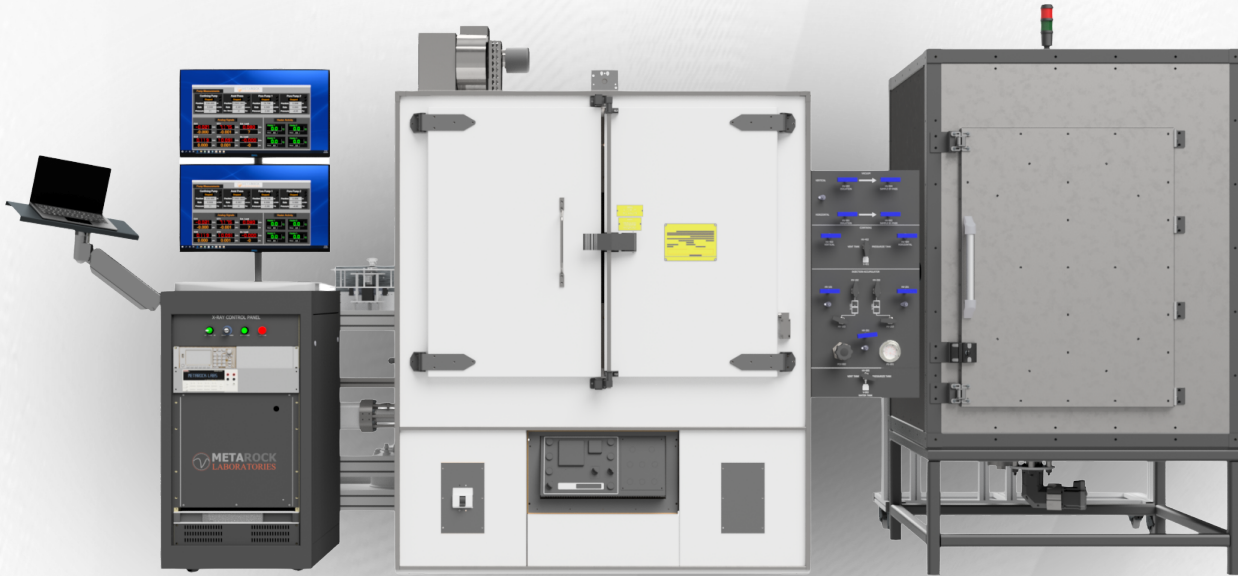


MULTIPHASE RELATIVE PERMEABILITY SYSTEM (MRP-200)

OVERVIEW

The MetaRock Multiphase Relative Permeability System (MRP-200) redefines core flood testing. Seamlessly integrating advanced digital control, automated flow systems, and real-time data tracking, it empowers users to achieve breakthrough insights into multiphase flow behavior — even under extreme pressures and temperatures.



High-Temperature Class A Safety Oven

- Provides a secure test environment up to 150°C, with integrated pressure transducers and LEL and H2S detection for live fluid testing.

Bidirectional X-Ray Track System

- Enables horizontal or vertical scanning of the core sample for in-situ saturation monitoring during core flooding experiments.

X-Ray Transparent Core Holder Vessel

- Built with a carbon fiber/titanium composite for X-Ray transparency, featuring HC-276 wetted components and static pore pressure ports for direct differential pressure measurement across the sample face. Rated for 15,000 psi and 150°C, compatible with samples up to 1.5" x 12".

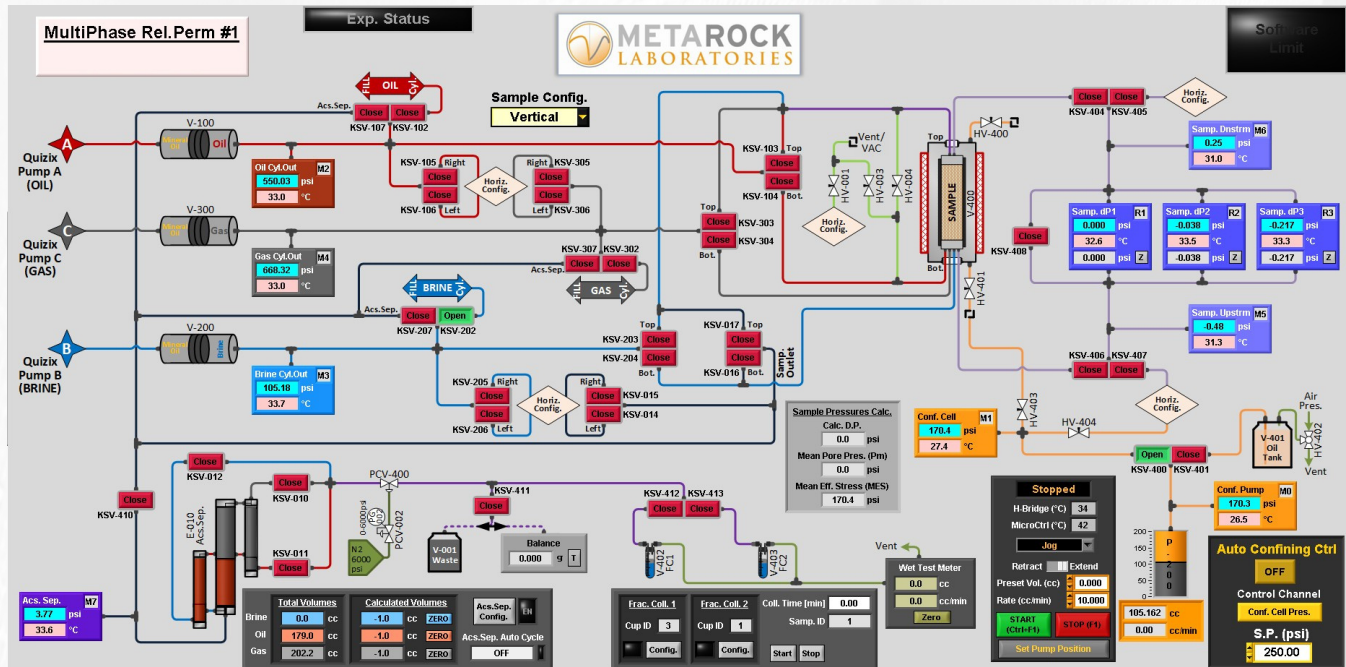
Three-Phase Acoustic Separator

- Allows for real-time level measurement and separation of three fluids (gas, oil, brine), with seamless switching between through-flow and closed-loop recirculation modes.

Injection Pump System

- Three continuous injection, pulse-free pumps ensure precise and automated fractional flow for relative permeability measurement.

MULTIPHASE RELATIVE PERMEABILITY SYSTEM (MRP-200)



Fully integrated with MetaRock's proprietary software, the Rel-Perm system allows intuitive manual or automatic control, live monitoring, and comprehensive data capture for every stage of your experiment.

TECHNICAL SPECIFICATIONS

Capability	Detail
Max Operating Temperature	120°C to 150°C
Max Confining Pressure	15,000 psi
Max Pore Pressure	6,000 psi to 10,000 psi
Flow Rate Range	1e-5 to 15 ml/min
Maximum Sample Size	1.5" Diameter × 12" Length (Adjustable)
Wetted Materials	HC-276, Titanium Grade 5
Seal Materials	PTFE, Aflas, Chemraz
In-situ Stress Saturation Monitoring	Vertical and Horizontal Orientation
Safety Oven	Class A with LEL and H2S Detection