

CHANDLER ENGINEERING®

Model 2328-900

Minimum Miscibility Apparatus

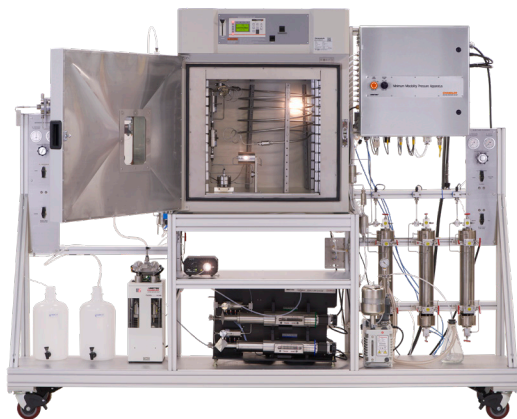
Chandler Engineering is proud to offer the Minimum Miscibility Pressure Apparatus (MMPA), which is designed to determine suitable oil reservoir candidates for enhanced oil recovery efforts.

The MMPA is an automated slim tube apparatus suitable for a wide range of miscible displacement experiments. The MMPA offers robust, custom LabView-based software that is easy to use and includes user friendly Windows™ based control software. Also included is a sapphire sight glass for safe viewing of the sample during the analysis process.

The MMPA contains; a high quality air bath, three high-pressure sample bottles, sand packed slim tubes, control software with necessary valves, flow meters and tubing.

Options Available:

- Effluent density apparatus
- Viscosity apparatus (select: atmospheric, rolling-ball, capillary or integrated EMV)
- Gas and liquid compositional analysis packages
- Hastelloy-wetted components



FEATURES

- ✓ Miscibility pressure at elevated temperatures and pressures
- ✓ Video monitoring of phase change
- ✓ Flood scheme evaluation solubility and swelling studies
- ✓ Evaluation of flood components
- ✓ Environmentally safe
- ✓ Effluent density option
- ✓ Effluent viscosity option

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Specifications

Pressure:

Range: 0-10,000 psia

Accuracy: Less than $\pm 0.5\%$ best fit, straight line

Includes Non-linearity, Hysteresis and

Non repeatability

Stability (1 year): $\pm 0.25\%$ F.S., typical

Temperature:

Range: Ambient to 150°C (300°F)

Temp. Uniformity: $\pm 1^\circ\text{C}$ of setpoint (33.8°F)

Control Accuracy: $\pm 0.5^\circ\text{C}$ (32.9°F)

Resolution: $\pm 0.1^\circ\text{C}$ (32.18°F)

Digital Pump (Model Q5210-SS):

Dual Cylinder: each cyl 15 cc

Accuracy: ± 0.001 cc/min

Minimum Flow Rate: 0.0001 mL/min

Maximum Flow Rate: 15 mL/min

Floating Piston Cylinder (Model 2347-875):

Capacity: 750 cc (nominal)

Pressure Rating: 15Kpsi

Power Requirements

MMPA Control Cabinet:

220-240 VAC, 50/60 Hz, 1 phase, 12A

Oven:

220-240 VAC, 50/60 Hz, 1 phase, 12A

Pump:

220 VAC, 1 phase, 50/60 Hz

D/A PC 115/230 (switchable)

50/60 Hz

Computer:

220-240 VAC, 50/60 Hz, 1 phase, 10A

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