Resistivity Index and Capillary Pressure System

The system provides critical reservoir description data at reservoir temperature, pore pressure and confining stress. The system is configured to provide steady state porous plate capillary pressure data and simultaneous electrical properties ("F", "RI", "Sw", "m", "n", "Ro", "Rt") data with reservoir fluids. The capability to determine Rw at test conditions is also included in the system.

Specification	RCP-PR01	RCP-PR11	RCP-PS01
Core Diameter	1.5″	1.5″	1.5″
Core Length	4″	2″ up to 3″	2″ up to 3″
Working Temperature	Up to 120 ˚C	Ambient	Up to 120 ˚C
Core Holder Position	Vertical	Vertical	Vertical
Overburden Pressure	Up to 6,500 Psi	Up to 6,500 Psi	Up to 6,500 Psi
Max. Pore Pressure	145 Psi	145 Psi	145 Psi
Capillary Pressure Range	-145 to + 145 Psi	-145 to + 145 Psi	-145 to + 145 Psi
Pressure Accuracy	0.05% F.S.	0.05% F.S.	0.05% F.S.
Resistivity Measurement Method	2 Electrodes	2 Electrodes	2 Electrodes
Input Power Supply	220 VAC, 50/60Hz	220 VAC, 50/60Hz	220 VAC, 50/60Hz
Wetted Material	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316
Rock Electrical Properties Measurement at Various Range of Frequencies	✓	✓	✓
Hydrostatic Core Holder	✓	✓	✓
Hydraulic Hand Pump	✓	✓	✓
Force Convection Oven	×	×	✓
Automatic Upstream, Downstream, and Confining Pressure Control	×	×	✓
Computer System	×	×	✓
User Friendly Automated Data Acquisition, Calculating and Reporting Software	×	×	✓

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