Porous Plate Capillary Pressure

Plug samples of known porosity and permeability are saturated with simulated formation brine. The core plugs and downstream water wet (hydrophilic) ceramic plates are saturated with the brine, wetting phase, and placed in the core holder. The upstream pump cylinder injects the displacing phase (oil) at constant pressure whilst the downstream pump cylinder maintains the differential pressure (PC) across the porous plate and collects the effluent wetting phase (brine) from the core holder providing accurate fluid measurement that is logged by the host computer along with all experimental parameters. The experimental data for each sample are logged to hard in the host computer and used in the report generation software for final report generation.

Specification	CCP-PR01	CCP-PR11	CCP-PS02
Core Diameter	1.5 in.	1.5 in.	1.5 in.
Core Length	1 in. to 3 in.	1 in. to 3 in.	1 in. to 3 in.
Maximum Working Temperature	Ambient	90 ˚C	150 ˚C
Core Holder Position	Vertical	Vertical	Vertical
Overburden Pressure	6,500 Psi	6,500 Psi	10,500 Psi
Maximum Pore Pressure	145 Psi	6,000 Psi	10,000 Psi
P_c Range	±145 Psi	±145 Psi	±145 Psi
Pressure Accuracy	0.1% F.S.	0.05% F.S.	0.05% F.S.
Input Power Supply	220 VAC, 50/60Hz	380 VAC, 50/60Hz	380 VAC, 50/60Hz
Wetted Material	Stainless Steel 316	Stainless Steel 316	Stainless Steel 316/Hastelloy
Hydrostatic Core Holder	✓	✓	✓
Hydraulic Hand Pump	✓	×	×
Forced Convection Oven	×	✓	✓
Triple pump control system	×	✓	✓
Dual pump control system	✓	×	×
Automation	DELTA	DELTA	SIEMENS Ingenuity for life
Automatic Control & Data Acquisition System	✓	✓	✓
Data Acquisition System	✓	✓	✓

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