

Core Flooding System

Generally, a core flood system is a system that flows a fluid (gas or liquid) through a core sample at controlled pressure and temperature conditions and measures or monitors flow parameters.

The dry core is saturated with brine. Then saturated core is flooded by oil until the saturation water reaches to the reservoir initial water saturation conditions. Afterwards oil saturated core will be flooded by brine at high pressure/temperature condition. The relative permeability of oil/brine will be estimated. Total oil production versus time will be plotted.



Specification	CFS-PS01	CFS-PS02	CFS-PR12
Core Length	2 in. to 10 in.	2 in. to 10 in.	1 ft
Core Diameter	1.5 in.	1.5 in.	4 in.
Working Temperature	90°C	150°C	90°C
Maximum Pore Pressure	6,000 Psi	10,000 Psi	6,000 Psi
Maximum Confining Pressure	6,500 Psi	10,500 Psi	6,500 Psi
Pressure Accuracy	0.05% F.S.	0.05% F.S.	0.05% F.S.
Number of Differential Pressure Transmitter	Dual	Dual	Dual
Number of Accumulators	3	3	3
Input Power Supply	220 VAC, 50Hz	220 VAC, 50Hz	220 VAC, 50Hz
Wetted Parts Material	Stainless Steel 316	Stainless Steel 316/Hastelloy	Stainless Steel 316
Pressure Taps: Inlet and Outlet of Core Holder	✓	✓	✓
Force Convection Oven (500 Liter)	✓	✓	✓
Hassler Type Core Holder Orientation	Horizontal/Vertical	Horizontal/Vertical	Horizontal/Vertical
Downstream Pressure Controller	✓	✓	✓
Hydraulic Hand Pump	✓	✓	✓
Automatic Valve DP Control	✓	✓	✓
Automatic Control & Data Acquisition System	✓	✓	✓
Digital Pressure Indicator	✓	✓	✓
Ambient Glass Fluid Separator	✓	✓	✓
Fraction Collector	✓	✓	✓
Gas Flow Meter	✓	✓	✓

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