

## **Benchtop Core Flooding System (BR)**

Flowing a fluid (oil/gas) at desired temperature and pressure

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.

## **Experiment Description**

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	BCF-BR02	BCF -BR05	BCF -BR12	BCF-BR15
Pressure Accuracy	0.5% F.S.	0.05% F.S.	0.05% F.S.	0.05% F.S.
Core Length	2" to 4"	2" to 4"	2" to 4"	2" to 4"
Working Temperature	120°C	120°C	Ambient	Ambient
Max. Pore Pressure	6,000 Psi	6,000 Psi	6,000 Psi	6,000 Psi
Max. Confining Pressure	6,500 Psi	6,500 Psi	6,500 Psi	6,500 Psi
Core Diameter	1.5"	1.5"	1.5"	1.5"
Number of Accumulators	3	3	2	2
Input Power Supply	220 VAC, 50Hz	220 VAC, 50Hz	220 VAC, 50Hz	220 VAC, 50Hz
<b>Core Holder Position</b>	Horizontal	Horizontal	Horizontal	Horizontal
Hassler Type Core Holder	✓	✓	✓	✓
<b>Force Convection Oven</b>	✓	✓	×	×
Downstream Pressure	✓	✓	✓	✓
Controller	,	,	ŕ	ŕ
<b>Hydraulic Hand Pump</b>	✓	✓	✓	✓
Stainless Steel Material	✓	✓	✓	✓
<b>Pressure Taps: Inlet and</b>	✓	✓	✓	✓
Outlet of Core Holder	·	ŕ	ŕ	ŕ
High Pressure HPLC	×	✓	×	✓
Pump				
Digital Back Pressure	✓	✓	✓	✓
Digital Upstream and	✓	✓	✓	✓
<b>Downstream Pressure</b>				

## Contact info: