



## Design and Manufacture of Oil and Gas Equipment

# Core Flooding Apparatus

A core flooding system is a system that flows a fluid (liquid or gas) through a core sample at controlled conditions, and measures flow parameters. The Core Flood System enables to perform:

- Liquid permeability measurement
- Unsteady state 2-phase relative permeability
- EOR studies such as water flooding, gas flooding, chemical flooding and etc.
- Acidizing studies
- Fluid distribution in multi-layered reservoirs
- Formation damage tests
- Stimulation studies

Tests can be conducted using reservoir or outcrop core material at specified temperatures and pressures. The unique design of the system allows an easy access to all components.







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#### Features:

**Maximum working pressure:** 400 bar (6,000 psi)

**Maximum confining pressure:** 400 bar (6,000 psi)

**Maximum working temperature:** 150°C

**Range of flow rate:** 0.001 to 100 cc/min

**Core length:** 7 to 30 cm

**Material:** Stainless steel

**Power supply:** 220 VAC, 50/60 Hz

**Note:** The aforementioned features can be changed upon the request.

#### Components:

- Core holder(s)
- Transfer vessel(s)
- Hand pump(s)
- Back pressure regulator
- Data acquisition
- Differential pressure transducer
- Oven