

# General Core Flooding

## CF-E30



### Description:

The CF-E30 apparatus is dedicated to evaluating and optimizing oil recovery for various injection protocols and fluids, such as miscible and immiscible gas injection, surfactant injection, polymer injection, etc. This system is designed to operate under unsteady state conditions with a maximum pressure and temperature rating of 600 bar and 100°C, respectively, at confining pressures up to 600 bar. The apparatus consists of four different transfer vessels and one core holder, enabling the system to perform various injection scenarios. One of the transfer vessels is a miniature type that can be used for rinsing the lines

### Technical Specification:

- Hassler core holder, Core diameter: 1.5", Maximum core length: 3.5"
- Maximum working pressure: 600 bar, Maximum confining pressure: 600 bar
- Pressure transmitter  $\times 2$ , Pressure transmitter accuracy: 0.1% full scale
- Differential pressure transmitter  $\times 2$ , accuracy: 0.1% full scale
- Software for automatic pressure and temperature recording
- Maximum working temperature: 100°C, Temperature resolution:  $\pm 1^\circ\text{C}$
- Miniature fluid accumulator: 100 cc for rinsing the system
- Gas back pressure regulator: 600 bar
- Fluid accumulator  $\times 3$ : 750 cc
- Gasometer  $\times 1$ : Equipped with a linear encoder
  - o Volume: 4 liters
  - o Pressure accuracy: 0.5% full scale
  - o Temperature accuracy: 0.5% full scale
  - o Linear encoder accuracy: 5  $\mu\text{m}$
- Wetted parts: Stainless steel 316
- Hydraulic pump
- Data acquisition system



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