





atalogue



place from an oil reservoir while the remaining oil, with valuation of nearly 70% of the initial resource, is a large and attractive target for Enhanced Oil Recovery, (EOR) activities. In the light of this huge amount of trapped and unrecovered oil application of EOR, IOR, Enhanced Gas Recovery and, Improved Gas Recovery gain an increasingly attention during the past decades and is still tremendously increasing. This is due to the fact that application of EOR/IOR techniques brings about new opportunities for the industry and at the same time new challenges that need to be addressed by laboratory studies. Due to technology diversity and different development level of Enhanced Oil Recovery Techniques, and Improved Oil Recovery methods, evaluation and selection of suitable EOR and IOR scenarios is generally complicated and requires good understanding of EOR/IOR techniques as well as reservoir characteristics & optimization.

Regarding this necessity, different types of core flooding equipments with different features and specification compatible with various purposes are designed by our engineers to accurately measure permeability changes to a formation core sample in a high temperature and high pressure environment, while exposing it to a variety of test fluids. A core that is collected from a formation is inserted into a core holder. A computer with special professional software controls the environment within the core holder and the injection rate and/or pressure of fluid into the core. Many different types of tests can be performed with these equipments by changing the test parameters, pressures, pattern of injection, changing the chemicals, etc.

Technical Specifications:

- ✓ General equipment to simulate the secondary, tertiary oil recovery processes including smart water injection, microbial EOR, ...
- ✓ Online software to log the pressure, displaced volume, injection rate, online permeability and temperature of the system
- \checkmark Hand pump equipped with a pressure gauge to control confining pressure $\times 1$
- ✓ Pressure transmitter accuracy: 0.05 % full scale

Catalogue Sitile

TECHNOLOGIES

- ✓ Gas back pressure regulator \times 1 (600 bar)
- \checkmark The lowest dead volume among its kind
- ✓ Connections and valves: VEE LOK
- ✓ Heating mechanism: slim elements
- ✓ Max. working temperature: 100 °C
- ✓ Easy load hassler core holder $\times 1$
- ✓ Wetted parts material: S.S.316 L
- ✓ Max. working pressure: 600 bar
- ✓ Temperature resolution: 0.1 °C
- ✓ Confining pressure: 600 bar
- ✓ Accumulator \times 2 (500 cc)
- ✓ Accumulator \times 1 (100 cc)
- ✓ Low dead volume design
- ✓ Pressure transmitter $\times 2$
- ✓ Core length:1" to 4"
- ✓ Core diameter: 1.5"