

# Core Acidizing

## CA-S20



### Description:

The core acidizing system is designed to inject an acid solution into a rock sample at reservoir conditions to modify the natural permeability of the rock by dissolving certain minerals present. Utilizing hastelloy as the wetted material allows for the investigation of the efficiency of different HCl-HF formulations in attacking plugging minerals. Additionally, the system facilitates the study

### Technical Specification:

- Maximum working pressure: 400 bar, Maximum confining pressure: 400 bar
- Equipped with software for automatic data acquisition and monitoring system (automatic pressure and temperature recording, core pressure drop, system temperature, and system pressure)
- Glass walls for easy monitoring of the process and for the protection of operators
- Fluid accumulator × 2: 500 cc (Hastelloy or Titanium)
- Fluid accumulator: 500 cc (Stainless steel 316) for rinsing the system
- Wetted parts for acid: Hastelloy or Titanium and others: stainless steel 316
- Pressure transmitter, accuracy: 0.1% full scale
- Differential pressure transmitter, accuracy: 0.1% full scale
- Maximum working temperature: 100 °C with thermal jacket
- Temperature resolution:  $\pm 1^{\circ}\text{C}$
- Gauge Pressure × 3
- Hassler core holder
  - o Core diameter: 1.5"
  - o Maximum core length: 3.5"



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