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OFITE

Manual Reservoir Permeability Tester Datasheet

**Routine Core Analysis Laboratory (RCAL) /
Permeability**



CORE ANALYSIS EQUIPMENT

For over 30 years OFI Testing Equipment (OFITE) has provided instruments and reagents for testing drilling fluids, well cements, completion fluids, and wastewater. In addition to these product lines we also offer a range of instruments for core analysis. From our manufacturing facility in Houston, TX we provide customers all over the world with quality products and exceptional service.

Our extensive line of Core Analysis products includes equipment for preparing core samples, routine testing, and advanced analysis.

As an independent manufacturer and supplier, OFITE has one priority, our customers.

Manual Reservoir Permeability Tester

The permeability of a petroleum reservoir is one of the most influential parameters in determining the production capabilities of a producing formation. Permeability is a measure of the ability of a fluid to flow through a porous media when subjected to a differential pressure and is mathematically equated by Darcy's law. The Reservoir Permeability Tester was developed to evaluate how fluids affect the permeability of a core specimen. In addition, the unit may be used to evaluate acidizing techniques and to develop typical Acid Response Curves (ARCs).



Features

- Manual valves enable forward and reverse injection through core holder for 3 separate fluids and nitrogen gas
- Hassler-type core holder rotates for either horizontal or vertical testing orientation
- Wetted materials are 316 Stainless Steel (HC-276 is available on request)
- Two-piece cabinet construction, with storage area below and locking swivel castors for mobility
- Comes with PC and data acquisition software





Technical Specifications and Requirements

- 127-00 - Manual Reservoir Permeability Tester

Specifications

- Core holder can test cores 1" or 1 1/2" diameter x 6" maximum length
- Accumulators: three separate piston accumulators, 1.5 liters each
- Drive Pressure: 5,000 PSI maximum
- Confining Pressure: 5,000 PSI maximum
- Back Pressure: 1,000 PSI maximum
- Core Holder Temperature: 400°F (204.4°C) maximum
- Fluid Injection Flow Rate: 0 to 10 ml/min
- Size: 44" wide x 20" deep x 60" tall (112 x 51 x 152 cm)
- Weight: 760 lb (344.7 kg)

Requirements

- Air: 100 PSI
- Nitrogen: 2,000 PSI
- Water: tap pressure (30 to 40 PSI is typical)
- Electrical: 230 VAC, 30 amps

