



## 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.

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## BLP-530 Gas Porosimeter

The BLP 530 Gas Porosimeter was designed to rapidly and accurately measure the effective porosity of a core sample. Porosity is defined as the percentage of void space within a solid media. Effective porosity is the percentage of void space within a solid media in which the pore spaces are interconnected. It is imperative to accurately determine the effective porosity of a petroleum reservoir when estimating the total amount of recoverable hydrocarbons within a producing formation. The BLP 530 Gas Porosimeter was designed to precisely measure the effective porosity of a core sample.



## Features

- Precision regulator for accurate pressure control
- Digital display of pressure
- Vacuum gauge and connection port for evacuation
- "Lock in" feature allows for rapid measurement of samples
- Unit is compact and virtually maintenance free
- Calibration sample included with unit
- Air relief valve prevents over pressurization

## Technical Specifications and Requirements

- #127-20 BLP-530 Gas Porosimeter

### Specifications

- Can test core samples up to 1.5" in diameter by 2" long (Larger core holders available upon request)
- Size: 24" x 22" x 20" (61 x 56 x 51 cm)
- Weight: 150 lb (68.1 kg)
- Crated Size: 29" x 28" x 30" (74 x 71 x 76 cm)
- Crated Weight: 200 lb (91 kg)

### Required Utilities

- Helium or Nitrogen (200 PSI minimum)
- Vacuum: Vacuum pump and hose included with unit
- 220 VAC, 50 Hz, 2 Amp or 110 VAC, 60 Hz, 4 Amp

## ***Intro***

The OFITE BLP-530 Gas Porosimeter was designed to rapidly and accurately measure the effective porosity of a core sample. Porosity is defined as the percentage of void within a solid media. Effective porosity is the percentage of void within a solid media in which the pore spaces are interconnected. It is imperative to accurately measure the effective porosity of a petroleum reservoir when estimating the amount of recoverable oil within a producing formation. The BLP-530 was engineered to precisely measure the effective porosity of a core sample.

## ***Description***

A sample is placed into an airtight sample holder and pressure is applied to a reservoir of known volume. After the pressure has stabilized, a valve is opened, which permits the gas within the reservoir to expand into the sample holder. After equilibrium is reached, the new pressure of the system is measured and recorded. The effective porosity of the core specimen may be calculated by the use of Boyle's Law ( $P_1V_1 = P_2V_2$ ) in conjunction with the bulk volume of the sample. The variables  $V_1$  and  $V_2$  are constants, which are dependent upon the geometry of the unit and the effective porosity of the core.

## ***Features***

- Precision regulator for accurate pressure control
- Digital display of pressure
- Vacuum gauge and connection port for evacuation
- Lock in feature allows for rapid measurements of samples
- Unit is compact and virtually maintenance free
- Calibration sample included with unit
- Air relief valve prevents over pressurization
- Can test core samples 1.5" (3.81 cm) in diameter by 2" (5.08 cm) long
- Size: 24" x 22" x 20" (61 x 55.9 x 50.8 cm)
- Weight: 150 lbs (68.1 kg)

### Requirements:

- Helium or Nitrogen source (500 PSI / 3,448 kPa minimum)
- 220 Volt, 50 Hz power source

## ***Components***

#120-27-004 DP-15 Diaphragm (0 - 200 PSI)  
#127-00-262 Valve  
#127-20-004 O-ring for Test Cell  
#127-20-020 Calibration Block