Taha Kimia Tajhiz Co.

OFITE

BLP-630 Automated Gas Porosimeter

Datasheet

Routine Core Analysis Laboratory (RCAL) / Porosity

Taha Kimia Tajhiz Co. , www.tahakimia.ir , www.oilinst.ir , info@tahakimia.com , Tel: 66431041, Fax: 66430339
2nd Floor, No 35, Behzadi Dd. End, Before Labafinejad St., Jamalzadeh St., Jomhoori Ave., Tehran

OFITE

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.

BLP-630 Automated Gas Porosimeter

The BLP 630 Automated 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 630 Automated Gas Porosimeter was designed to precisely measure the effective porosity of a core sample.

Features

- Three separate volumetric gas reservoirs provide 7 possible gas volume combinations to improve effective pore space data for a broad range of core sizes and core porosities.
- Comes with an assortment of volumetric core holder inserts to minimize dead space for greater accuracy
- Core holder secured and released with ¼ turn by hand for quick and easy core loading
- Integrated vacuum pump allows evacuation of pore space and porosimeter gas circuits
- Various gases can be used, including helium, nitrogen and carbon dioxide
- Calibration is performed with the software to ensure accuracy
- Pressure relief valves are incorporated into the gas circuits to ensures safe operation
- Comes with PC and software for automatic or manual control and data acquisition

Method of Operation

A core sample is placed into the air-tight core 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 core 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 that are dependent upon the geometry of the unit and the effective porosity of the core.

Technical Specifications and Requirements

- #127-25 BLP-630 Automated Gas Porosimeter, 115 Volt
- #127-25-1 BLP-630 Automated Gas Porosimeter, 230 Volt

Specifications

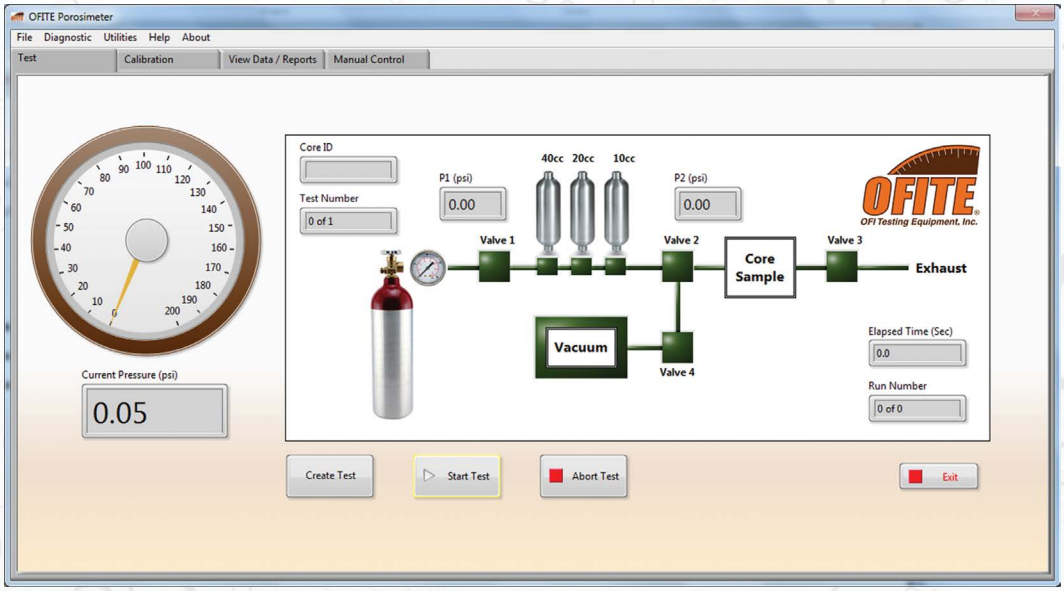
- Core holder can test cores up to 2" diameter and up to 3" long
- Comes with adapter kit for 1", 1½", and 30 mm diameter cores
- Gas pressure: 200 psi maximum testing pressure

Requirements

- Gas (helium, nitrogen, etc.): 200 PSI
- Power: 115 Volt, 7 Amp or 230 Volt, 3 Amp

Software Features

- Graphical operator interface, data collection, and control



OFI TESTING EQUIPMENT, INC.
11302 Steeplecrest Dr.
Houston, TX 77065
877.837.8683
www.ofite.com