



CEMENT TESTING 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 cement product line includes innovative designs such as the Static Gel Strength Measurement Device (SGSM) which showcases our ability to develop new technology to meet customer and industry demands. We also offer Ultrasonic Cement Analyzers (UCA), Constant Speed Blenders, Automated HTHP Consistometers, and all other instruments required to evaluate cement properties according to API Specification 10.

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

Volumetric Cement Expansion Device

The OFITE Volumetric Cement Expansion Device (VCED) is an accessory component to the Ultrasonic Cement Analyzer (UCA). It can be purchased with a new UCA or as an add-on component for existing units. This system continuously measures the expansion or contraction of a cement sample while simultaneously running a standard UCA test to measure compressive strength.



Features

- Continuous measurement under high-temperature, high-pressure conditions
- Programmable temperature control
- Data Acquisition System displays test data on-screen in real time
- Sold separately or with a new UCA unit

Patent Pending





Technical Specifications and Requirements

- #120-54 - Volumetric Cement Expansion Device

Specifications

- Maximum Pressure: 15,000 PSI (103.4 MPa)
- Maximum Measurement: $\pm 15\%$
- Measurement Range: ± 30 mL
- Pressure control: ± 25 PSI
- Size: 30" \times 18" \times 43" (76 \times 46 \times 109 cm)
- Weight: 95 lb (43 kg)

Requirements

- Air Supply - 100 PSI (690 kPa) Recommended; 150 PSI (1,035 kPa) Maximum; 1/4" NPT Connector (For standard UCA tests only)
- Water Supply - Tap water; 1/4" NPT Connector. Both the UCA and VCED units will require a water supply.
- 120V/220 V, 50/60 Hz Power
- Ultrasonic Cement Analyzer (one of the following):
 - 120-50 - Ultrasonic Cement Analyzer, Single Cell, 20 KSI
 - 120-51 - Ultrasonic Cement Analyzer, Twin Cell, 5 KSI
 - 120-52 - Ultrasonic Cement Analyzer, Dual Cell, 20 KSI

OFITE Data Acquisition Features:

- Reports real-time data that can be exported to an Excel, Word, or similar file
- Operates multiple units with one computer

