

# OFITE HTHP Curing Chamber

*Efficiently cure cement specimens with the Model 200.*

## **Introduction:**

The Model 200 HTHP Curing Chamber is utilized to prepare well cement specimens for compressive strength tests. It is necessary to determine the amount of time required for a cement to develop compressive strength so that drilling/production operations can be resumed as quickly as possible. The goal is to design a slurry that can quickly develop compressive strength so that the “waiting on cement” time may be minimized. The OFITE HTHP Curing Chambers provide a means of curing cement specimens under typical downhole temperatures and pressures.

## **Method of Operation:**

Cement is poured into a special mold that produces specimens measuring 2" × 2" × 2". The mold is placed into the test cell and the pressure is increased via an air-driven hydraulic pump. Test temperature is governed by a PID temperature controller, which actuates the heater. After a predetermined amount of time, the temperature of the test cell is reduced by the cooling system. Specimens are removed and the compressive strength is determined as outlined in API Specification 10.

## **Features and Specifications:**

- Unit may be utilized to test well cements in accordance to API Specification 10
- Electronic timer measures elapsed time and may be programmed to terminate test
- For safety, a pressure relief valve, as well as a safety head with rupture disk are provided
- Maximum operating temperature of 600°F
- Maximum operating pressure of 5,000 PSI
- Test cell cures 8-16 specimens
- Digital programmable temperature controller
- Digitally displays temperatures
- Coolant system quickly cools the test cell
- Dual compression molds meet ASTM standard C-109

## **Instrument Requirements:**

- Air supply of 100 PSI
- Cooling water at 40 PSI
- 220 Volt, 50/60 Hz, 20 Amp electrical power supply

## **Dimensions:**

**Size:** 33" × 30" × 60" (83.8 × 76.2 × 152.4 cm)

**Weight:** Approximately 1,100 lbs (499 kg)

**Crated Size:** 39" × 36" × 66" (99 × 91.4 × 167.6 cm)

**Crated Weight:** Approximately 1,300 lbs (590 kg)



### **Spare Parts Stocked:**

#122-001 Thermocouple Assembly  
#122-008 Heater Assembly  
#122-034 Valve  
#122-052 Rupture Disk  
#122-073 Fuse, 5 Amp  
#122-077 Fuse, 10 Amp  
#122-079 Circuit Breaker  
#122-083 Mold Assembly, 8 Specimen

### **Optional:**

#120-21 Spare Parts for 120-00 HTHP Curing Chamber, Single Cell, Single Deep  
#120-26 Spare Parts for 120-25 HTHP Curing Chamber, Single Cell, Double Deep  
#120-31 Spare Parts for 120-30 HTHP Curing Chamber, Dual Cell, Single Deep

OFITE typically offers packages of spare parts that contain the recommended spares for one, two, or three years normal operation. Please note that OFITE's spare/expendable components are interchangeable with the components of most major consistometer manufacturers. Dimensions and materials of construction for many of these components are stated within API Specification 10. OFITE stringently follows these guidelines. OFITE is listed as a supplier of testing equipment with the American Petroleum Institute (API).

### **Other OFITE Cement Testing Equipment:**

Atmospheric Consistometers  
Recording Atmospheric Consistometers  
Pressurized Consistometers  
Benchtop Consistometers  
Cement Blenders  
Fluid Gas Migration Analyzers  
HTHP Filter Presses, 500 ml, Double Ended Cell  
Compressive Strength Testers  
Rheometers  
Stirred Fluid Loss Testers  
Ultrasonic Cement Analyzers  
Cement Permeability Testers  
HTHP Cement Permeability Testers  
Pressurized Fluid Density Scales

**CALL, FAX, or WRITE**  
if additional information is required.

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