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# Model 8040 Dual Cell Consistometer Datasheet

Cement Testing / Thickening Time Tests  
(Consistometers) Equipment

**CHANDLER**  
ENGINEERING

## Model 8040

### *DUAL CELL CONSISTOMETER*

#### **A Critical Tool for Oil Well Drilling and Cementing**

The Model 8040 is designed for busy laboratories involved in: oil well cement research, research and testing of cement additives, cement quality assurance and the research and field laboratories of well service companies. This instrument can simultaneously perform two independent cement thickening behavior tests under a variety of downhole well conditions.

#### **Proven Long-Term Performance**

The Model 8040 is one of Chandler Engineering's most proven consistometers. Hundreds of units are in operation globally. Experience with these rugged instruments has demonstrated that their service lifespan can easily exceed ten years with normal, routine maintenance. Every unit is tested extensively at the factory with standard cement to ensure that the instrument is a completely and satisfactorily operational unit.

#### **Operational Simplicity and Advanced Capabilities**

The Model 8040 Pressurized Consistometer is simple to operate with all of the operational controls conveniently located on the front panel. The unit is designed so that closure, heating and pressurization can be achieved quickly. The slurry cup drive automatically rotates the cup at the required, standard rate of 150 rpm.

Indicators for test time, consistency, pressure and temperature are readily visible on the front panel of the unit. A chart recorder automatically tracks the temperature and consistency measurements during a test.



#### **FEATURES**

- ✓ Two Independently Operated Test Cells
- ✓ Built-In Chart Recorders
- ✓ Accurate Temperature and Pressure Controllers with Multi-Slope Gradient Capability
- ✓ Adjustable Consistency Alarm
- ✓ Magnetic Drive
- ✓ External Chiller Connections

Programmable temperature and pressure controllers are capable of controlling multi-slope temperature or pressure gradients during a test. The usefulness of the Model 8040 Consistometer is not limited to the standard testing of cement thickening time. It can also be used to prepare slurries for other tests such as measuring free water content, testing for fluid loss or rheological properties and viscosity. For enhanced research and testing capabilities, the Model 8040 can be equipped with an external chiller for performing tests for deep-water temperatures.

## Specifications

|                           |   |
|---------------------------|---|
| Maximum Temperature       | 600°F / 315°C   |
| Maximum Pressure          | 40,000 psi / 275 MPa  |
| Heater Power              | 5000 Watts  |
| Slurry Cup Rotation Speed | 150 rpm   |
| Viscosity Range           | 0 to 100 Bc (Bearden Units)   |
| Operating Temperature     | 40 to 120°F / 4 to 50°C   |
| Pressure Medium           | White Mineral Oil   |
| Data Acquisition          | Two channel strip chart recorder tracks temperature and consistency |
| Compliance                | API Spec 10A / ISO 10426-1  |

## Utilities

|                |   |
|----------------|---|
| Cooling Water  | 20-80 psi / 140 – 550 kPa; nominal flow 2 Lpm |
| Compressed Air | 75-125 psi / 517 – 862 kPa                    |
| Power Supply   | 240 VAC ±15% 50/60 Hz 7.5 kVa                 |

## Shipping Information

|            |  |
|------------|--|
| Dimensions | 56 in. x 38 in. x 75 in. / 143 x 96 x 190 cm |
| Weight     | 2400 lb / 1090 kg                            |

*Manufacturer's specifications subject to change without notice*



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