

### ***Designed for Super-Fast, Easy Operation via PC Control***

The Grace Instrument M7280 Ultra HPHT Dual Cell Consistometer was developed with laboratory efficiency in mind, enabling the operator to perform accurate, dependable test operations with minimal preparation time. The innovative hardware design makes the instrument easy to set up, easy to use and easy to clean. The custom PC software included with each unit allows the user to construct test sequences, run tests, and interpret test results quickly and efficiently.

The M7280 measures slurry consistency while the slurry is subjected to a wide range of simulated downhole conditions of temperature and pressure up to 40,000 psi (275 MPa) and 600° F (315°C). This instrument can simultaneously perform two independent tests.

### ***Robust Components Provide Exacting Measurements***

The Grace Instrument M7280 Ultra HPHT Dual Cell Consistometer features the rotating slurry cup that turns at speeds up to 150 rpm and a stationary paddle-style sensor. User-specified conditions of temperature and pressure are applied to the test chamber as the magnetically-driven cup rotates and the slurry flows against the paddle. The torque applied to the paddle as the slurry cup revolves is used to determine the slurry consistency.

### ***Simple Set-Up, Easy Operation, Reliable & Repeatable Testing***

All hardware components are created in accordance with API recommendations. The cement sample is placed in a temperature and pressure-controlled cell and tested under the curing conditions that are specified by the user through the PC software.

### ***Operational Features***

- *Automatically conditions slurry*
- *Computer-controlled data logging*
- *Control panel optimized for ease of use*
- *Constant temperature control system*
- *Designed for maximum accuracy and operator safety*
- *Innovative data analysis algorithms*
- *Comparison of current test data with historical test data*
- *Data analysis software compatible with Microsoft™ Windows® 8 and newer.*
- *Computer software requires 1920x1080p resolution*



### ***Specifications:***

Temperature Range:	Amb. to 600°F (315°C)
Pressure Range:	Atm. to 40,000 psi
Thickening Time Range:	0 - 100 Bc (Bearden Units)
Heater Power:	8,000 W
Power Supply:	240 V, 50/60 Hz
Slurry Cup Rotation:	150 rpm
Pressure Medium:	White mineral oil
Compliance:	API Spec 10A/ISO10426-1
Dimensions:	65" H x 50" W x 31" D