



CHANDLER
ENGINEERING

Model 7322

HPHT CONSISTOMETER

A Critical Tool for Oil Well Cementing

An API Spec 10A compliant instrument, the Model 7322 HPHT Consistometer is designed to test cement thickening behavior under a variety of downhole conditions. Designed with laboratory efficiency and ease of operation as major goals, the Model 7322 design minimized the two largest contributors to instrument downtime: the cool-down time between tests and routine maintenance.

This popular model is designed for laboratories involved in: oil well cement research, development of cement additives, cement quality assurance and field laboratories

Engineering Excellence for Long-term Performance

A newly designed oil pressurization system employs easy-to-maintain, aerospace-inspired modular hydraulics which also eliminate oil mist. Slurry cup drive reliability is maximized by use of a magnetic coupling system to connect the drive motor to the cup. The simple to use and reliable pressure control system consists of a pump, a sensitive pressure transducer and a unique capillary pressure release unit.

Operational Simplicity and Advanced Capabilities

The usefulness of the Model 7322 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 viscosity and consistency. The Model 7322 can be equipped with an external chiller for performing tests at sub-ambient temperatures.



FEATURES

- ✓ Faster Cool Down Cycle
- ✓ 3 Channel Chart Recorder
- ✓ Programmable Consistency Alarm
- ✓ Modular Hydraulics
- ✓ Advanced Oil Pressurization System
- ✓ Compatible with Model 5270 Data Acquisition System



Specifications

Maximum Temperature

400°F / 204°C

Maximum Pressure

22,000 psi / 150 MPa

Heater Power

2200 Watts

Slurry Cup Rotation Speed

150 rpm

Thickening Time Range

0 to 100 Bc (Bearden Units)

Operating Temperature

Ambient to 120°F / 50°C

Turn-around Time

20 minutes typical

Pressure Medium

White Mineral Oil

Data Acquisition

Three channel strip chart recorder

Chandler Engineering Model 5270 Data Acquisition and Control Software for a stand-alone computer (optional)

Compliance

API Spec 10A / ISO 10426-1

Utilities

Cooling Water

20-80 psi / 150 – 600 kPa

Compressed Air

50-100 psi / 350 – 700 kPa

Power Supply

220 VAC ±15% 50/60 Hz

Physical Dimensions

Dimensions (w x d x h):

23 x 28 x 73 in. / 57 x 71 x 186 cm

Weight:

570 lb / 259 kg

Manufacturer's specifications subject to change without notice

R0211.001

**CHANDLER ENGINEERING**

2001 North Indianwood Avenue, Broken Arrow, OK 74012

Tel: +1 918-250-7200 • Fax: +1 918-459-0165

e-mail: chandler.sales@ametek.com • www.chandlereng.com**Houston Sales and Services**

4903 W. Sam Houston Parkway, N., Suite A-400, Houston, TX 77041

Tel: +1 713-466-4900 • Fax: +1 713-849-1924