

HPHT Consistometer Model 422C Dual Cell

Description

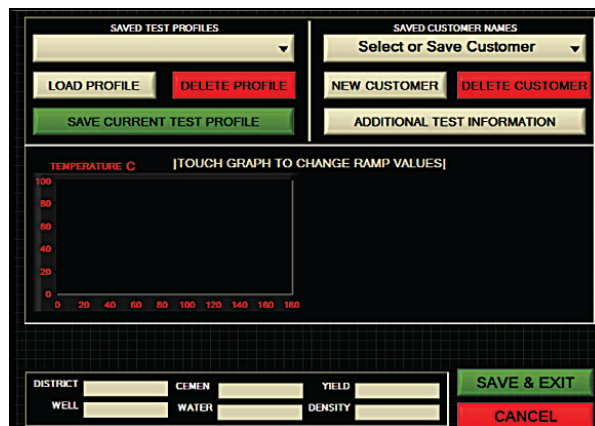
Fann Consistometer Model 422CC (dual cell) is specifically designed to measure the thickening time of cement slurries in strict compliance with ISO requirements and API specifications. With high temperatures and pressures applied to the cement, it is possible to simulate a variety of conditions found in actual down-hole well cementing. This model has been tested to temperatures up to 400°F and pressures up to 22,000psi.

Operation of the pressurized consistometer is simple with all of the operational controls conveniently located on the front panel. The readout indicators for the viscosity, pressure, and temperature, as well as operational instructions, are easily read from the 12-inch color touch-screen. The consistometer is designed for closure, heating, and pressurization to be achieved quickly. This ensures compliance with the requirement of API schedules. The temperature control system will automatically control the rate of temperature rise of the slurry (i.e. temperature gradient). When the slurry reaches the desired maximum temperature, the system will hold the slurry temperature at that level. The temperature and viscosity of the slurry, and current pressure are displayed constantly on the touch-screen numerically and graphically. Contains easy spin-on/off automotive style mineral oil filter and 100 micron high pressure filter to remove sediment and other contaminants from mineral oil.



Advantages

- Easy network LAN for remote viewing in real-time
- USB data export
- Precision magnetic drive assembly
- Automatic cooling
- No other computer required to operate the system
- Onboard memory to store thousands of tests' data
- Supplied with tool kit, spares, and accessories
- Pressure control option can be added
- Redesigned with automated functions
- Oil reservoir cooling
- 12in color touchscreen display
- Rate of temperature rise of the slurry can be closely controlled over a wide range of temperature gradients including a multi-slope gradient
- The cooling coils around the pressure vessel permits the circulation of a cooling fluid to cool the pressure vessel quickly
- High-wattage slurry heater provides high heating rates needed to simulate high temperature gradients in wells
- Viscosity alarms can be set over the range from less than 30 Bc to 100 Bc



Specifications

Electrical	
Input Voltage	230 VAC ($\pm 10\%$)
Input Power	10000W
Current	50 A
Input Frequency	50-60 Hz

Drive Unit	
Drive Unit	.65A, 180VDC
Drive Speed	150 rpm (Variable Speed Optional)

Dimensions	
Height	61 in. (155 cm)
Width	48 in. (122 cm)
Depth	30 in. (76 cm)
Weight	1,600 lb. (726 kg)

Heater	
Heater Power	5000 W per pressure vessel
Heater Type	Internal Cast Rod Heater
Heater Control	SS Relay

Air/Water Connections	
Water In/Out	1/4 MNPT (2)
Air Input	1/4 MNPT (1) (Max 120psi)

Environmental	
Operating Temperature	32 -105 °F (0 - 40 °C)
Operating Humidity	0 - 95% non-condensing

Ordering Information

Part No. 102546632 - Dual Cell HPHT Pressurized Consistometer 22,000psi 400°F Model 422CC

Fann Instrument Company offers a complete line of equipment, materials, and supplies for analyzing various drilling fluids and oil well cements in accordance with API Specifications and API Recommended Practices.