



CHANDLER ENGINEERING

Model 4300

Fluid Loss Cell

A Critical Tool for Oil Well Cements and Drilling Fluids

Fluid loss from muds and cement slurries to a permeable formation can significantly impact performance or damage the formation. If a cement slurry loses too much fluid, its strength can be compromised and costly remedial intervention may be required. The Model 4300 Fluid Loss Cell measures the fluid loss properties of muds and cement slurries in accordance with API procedures.

A Vastly Improved, Safer Instrument

Chandler Engineering developed the Model 4300 Fluid Loss Cell to eliminate safety issues with traditional fluid loss instrument designs. The cell is designed using threaded end caps and eliminates the danger associated with set screw style cells.

- The system incorporates over temperature circuitry never before utilized in previous designs.
- Pop off valves are incorporated within the hardware design to prevent dangerous over pressure scenarios.
- The microprocessor based temperature controller eliminates the need for obsolete rheostat temperature adjustments.
- The digital display allows an operator to accurately display and set the operating temperature within $\pm 1^{\circ}\text{C}$ ($\pm 2^{\circ}\text{F}$).

All of the Model 4300 enhancements have allowed Chandler Engineering to create a vastly improved, safer and superior Fluid Loss System.

Operational Simplicity and Advanced Capabilities

The Model 4300 is designed to be as easy to use as possible, with clear and intuitive controls. Once the cement slurry or mud is placed into the test cell, a programmable temperature controller increases the temperature to the desired set point. The cell is then inverted to begin the fluid loss test. A graduated cylinder or the back pressure receiver is used to collect the filtrate for measurement of the fluid loss.



FEATURES

- ✓ Fluid loss measurement through standard screens or filter paper
- ✓ Safer cell design with threaded end caps
- ✓ Dual ended cell
- ✓ Over temperature safety circuitry
- ✓ Over pressure pop off valves
- ✓ Four (4) models available
 - 4300-175-115V
 - 4300-175-230V
 - 4300-500-115V
 - 4300-500-230V
- ✓ Option for electronic balance with 5270 software interface to measure and record weight of filtrate

Model 4300

Specifications

Maximum Temperature:
500°F (260°C)

Maximum Pressure:
2,000 psi (13.7 MPa)

Cylinder Volume: 175 mL Model 4300-175-115V
175 mL Model 4300-175-230V
500 mL Model 4300-500-115V
500 mL Model 4300-500-230V

Filtrate Collection Volume:
100 mL (Nominal)

Utilities Required

Power:

115 VAC, 10A, 50/60 Hz, 1 Phase Model 4300-175-115V
115 VAC, 10A, 50/60 Hz, 1 Phase Model 4300-500-115V
230 VAC, 5A, 50/60 Hz, 1 Phase Model 4300-175-230V
230 VAC, 5A, 50/60 Hz, 1 Phase Model 4300-500-230V

Nitrogen:

1,000 to 2,000 psi (6.8 to 13.7 MPa)

Dimensions (w x d x h):

24 in x 17 in x 37 in
(61 cm x 43 cm x 94 cm) Nominal

Net Weight:

115 lb (53 kg) Nominal

Shipping Dimensions:
27 in x 20 in x 41 in (69 cm x 51 cm x 105 cm)
Nominal

Shipping Volume:
15 ft³ (0.5 m³) Nominal

Shipping Gross Weight:
190 lb (87 kg) Nominal

Compliance:
API RP 10B-2

Manufacturer's specifications subject to change
without notice

Scan the below QR Code with your
phone to view product information
on our Website.



AMETEK[®]
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