HPHT Applications

Model 5617 *corrosion test apparatus*

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NGINEERING

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Test Corrosivity at High Pressure and High Temperature

Throughout the Oil & Gas Industry, the corrosivity of fluids and the effectiveness of corrosion inhibitors are critical to keeping operations reliable, safe and cost-effective. The Model 5617 Corrosion Test Apparatus is designed to test the reaction rate of corrosive liquids on metals that are subjected to high pressure and high temperature (HPHT) under dynamic conditions.

Simultaneously test up to twenty Samples

The Model 5617 is designed to help engineers maximize their testing productivity and optimize test repeatability. The chamber of the instrument can hold up to twenty glass sample bottles with corrosionresistant caps during a single test. Each bottle may contain a different metal coupon and sample fluid if desired. Corrosion rates are determined by weight loss of each coupon. Alternatively, the instrument can be ordered to hold larger sample bottles.

User-Controlled Test Conditions and Sample Agitation

The test cylinder's pressure is easily set. During a test, the pressure control gauge controls a pump and release valve to automatically maintain the preset pressure. The automatic temperature control can regulate the temperature heat-up rate which has a maximum of 5.4°F/ 3°C per minute.

Enhanced Safety and Productivity

Enhanced user safety in the Model 5617 begins with a remote control panel. This control panel enables the user to monitor and control the instrument's pressure and temperature from a safe distance. The pressurization system safely pressurizes and depressurizes the test cylinder. The system includes user-adjustable upper and lower pressure set-points which prevent over and under- pressure conditions during a test. Pressure and temperature can be automatically tracked via an optional Model 5270 Data Acquisition and Control System. The instrument is also designed to minimize the cool-down and clean-up times between tests.

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FEATURES

- Simultaneously test up to twenty samples
- Maximum test pressure of 10,000 psi / 69 MPa
- Maximum test temperature of 500°F / 260°C
- Remote control panel for enhanced user-safety
- Adjustable sample agitation angles and rates
- ✓ Cooling capabilities
- ✓ Compatible with the Model 5270 Data Acquisition and Control System



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Model 5617

Specifications Specimen Capacity Remote Control Console 20 - 4 fl. oz. / 50 mL sample bottles Maximum Separation Distance 8 - 8 fl. oz. / 100 mL sample bottles optional 50 ft / 15.25 m **Maximum Pressure** Size (H x W x D) 10 in. x 20 in. x 20 in. / 25 x 50 x 50 cm 10,000 psi / 69 MPa **Maximum Temperature** Weight 500°F / 260°C 25 lb / 11 kg **Maximum Temperature Rise Enviromental** 5.4°F / 3°C per minute Operating temperature 32° to 105°F / 0 to 40°C **Agitation Angles** 40°, 60°, or 80° **Operating Humidity Agitation Rates** 0 to 95% non-condensing 35, 60, or 100 cycles/minute Utilities **Physical Dimensions** Power Instrument 230 VAC ± 15%; 50/60 Hz ± 10%; 10 kVA Size (H x W x D) Compressed air 67 in. x 39 in. x 33 in. / 170 x 99 x 84 cm 100 to 130 psi / 690 to 900 kPa; intermittent flow Cooling water Weight 2,200 lb / 998 kg 20 to 80 psi / 140 to 550 kPa

*Manufacturer's specifications subject to change without notice

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