



Model 5617

CORROSION TEST APPARATUS

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 measure 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 corrosion-resistant 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.



- ✓ *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*



Model 5617

Specifications

Specimen Capacity

20 - 4 fl. oz. / 50 mL sample bottles

8 - 8 fl. oz. / 100 mL sample bottles optional

Maximum Pressure

10,000 psi / 69 MPa

Maximum Temperature

500°F / 260°C

Maximum Temperature Rise

5.4°F / 3°C per minute

Agitation Angles

40°, 60°, or 80°

Agitation Rates

35, 60, or 100 cycles/minute

Physical Dimensions

Instrument

Size (H x W x D)

67 in. x 39 in. x 33 in. / 170 x 99 x 84 cm

Weight

2,200 lb / 998 kg

Remote Control Console

Maximum Separation Distance

50 ft / 15.25 m

Size (H x W x D)

10 in. x 20 in. x 20 in. / 25 x 50 x 50 cm

Weight

25 lb / 11 kg

Environmental

Operating temperature

32° to 105°F / 0 to 40°C

Operating Humidity

0 to 95% non-condensing

Utilities

Power

230 VAC ± 15%; 50/60 Hz ± 10%; 10 kVA

Compressed air

100 to 130 psi / 690 to 900 kPa; intermittent flow

Cooling water

20 to 80 psi / 140 to 550 kPa

**Manufacturer's specifications subject to change without notice*

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