

### **M1741 Aging Cell**

Grace Instrument aging cells were designed to be used with the Grace Instrument M1740/M1750 Roller Ovens, in the aging and testing of drilling fluids or muds. It allows samples to be maintained in a liquid state while subjected to a temperature higher than the boiling point of water due to pressure.

Most drilling fluid properties are formulated through a base liquid and additives that must be dissolved or mechanically distributed within the base liquid to form a uniform, homogeneous fluid. As a result, properties of the fluid may contain one or more of the following:

- Water-soluble(dispersible) polymers or resins
- Clays or other insoluble but dispersible fine solids
- Soluble salts

The fluids are mixed or sheared for an appropriate amount of time to achieve a homogeneous composition and afterwards set aside to age. The process of aging depends on conditions that may vary from static to dynamic and from ambient to highly elevated temperatures.

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### **Features**

- Available in 3 premium metals: stainless steel (grade 303 or grade 316) or hastelloy construction.
- High temperature testing, even through prolonged salinity.
- Designed for pressurizing fluid samples
- Meets API Recommended Practice 13 B-1/ 13B-2.

### **Specifications**

Capacity:	500 mL
Max Temperature:	500°F (260°C)
Max Pressure:	2000 PSI (13.8 Mpa)
Material Options:	303 Stainless Steel, 316 Stainless Steel, C-276 Hastelloy