

### **M9400 Automatic Rotating Disc Acid Reactor**

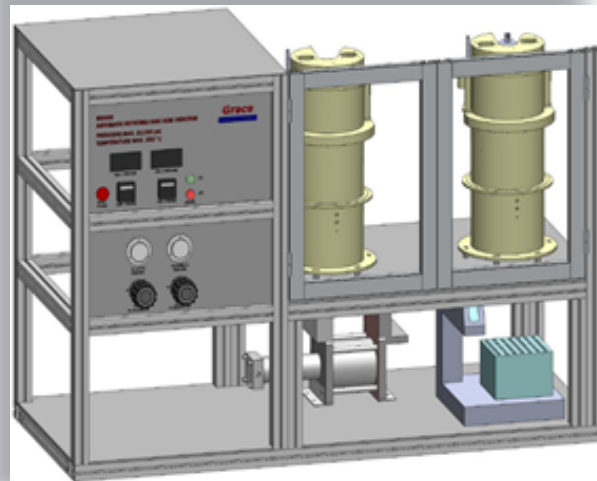
The Grace Instrument M9400 Automatic Rotating Disc Acid Reactor is designed to analysis acid stimulation performance at reservoir conditions. The M9400 is capable of handling hydrochloric, hydrofluoric and organic acids used for acid stimulation of carbonate and sandstone reservoir. The rotating reactor puts the rock sample in motion for uniform reaction with acid system.

### **Safe, Reliable, Hands-free Operation**

Designed to maximize user safety, the M9400 features completely automatic, hands-free operation after the user loads the test samples. Additionally, steel safty shield towers enclose the pressure vessels, with a surrounding splash shield providing further protection to the user and the working environment

This M9400 features a 1-inch diameter rotating disc and a magnetic drive system all within a 10,000 psi Hastelloy pressure vessel. It also includes a temperature control, reactant fluid collector and data acquisition and control system.

During the experiment, pressure, temperature, acid displacement and test duration are all software controlled. Further, the easy to use software allows the collection of numerous reactant samples at preselected time intervals. The necessary accessories are meeting HSE required standards.



### **Specifications**

Pressure Range:	10,000 PSI
Temperature Range:	250 Degrees C
Rotation Speed:	100 - 2,000 rpm (customer option avail.)
Material:	Hastelloy B and Hastelloy C
Reactor Cell Capability:	600ml; (customer option avail.)

### **Features**

- *Automatic hands free operation after loading samples*
- *Steel shield tower provides further protection to test cells*
- *Automatic sampling system*
- *Proprietary design prevents debris plugging sample tubing*

*Note: The 9000 series of products are all highly customizable, so all specifications should be regarded as approximate, depending on individual customer requirements.*