Pressure Reactor Overview

For working safely under pressure

Single



Benchtop
Up to 2,000 mL

Versatile design with multiple options available for pressure & temperature ranges.



Pilot
<50 L +

Designed to suit your personal criteria, with multiple options available for pressure and for temperature range.

Parallel



Quadracell
4 x 10 mL

Small-scale 4 position parallel pressure reactor with a choice of material of construction and maximum pressure .



Multicell
10 x 30 mL

Compact mid-scale parallel pressure reactor with wide range of upgrade options available.



Multicell PLUS
Up to 8 x 100 mL

Highly configurable system with multiple upgrade options available.

Configuration

As standard, our vessels can be built to your desired specification.

Common options

- Stainless steel 316 material
- 50 or 180 bar max working pressure
- 250 °C max temperature
- Heating using hotplate stirrer with DrySyn adapter
- Pressure relief valve, gauge & thermowell
- Standard Swagelok fittings
- Magnetic agitation

Upgrade options

- Exotic metals eg. Hastelloy or inconel
- Pressure to your requirement; 500 bar +
- Temperature to your requirement
- Upgrade to dedicated heater; 800 °C+
- Sampling & charging
- Liners: PTFE, glass
- Cooling
- Hosing for connection to gas lines
- Overhead stirring
- Burst disc & associated pipework

Pressure Reactor Overview



Applications

Ideal for use in:

- Hydrogenations & other gas phase reactions
- Hydrothermal synthesis
- Homogeneous and heterogeneous catalysis
- Corrosion testing
- Catalyst Screening, reaction optimisation & materials testing
- Supercritical studies

By chemists, for chemists

- Your reactor system will be designed around your application/budget
- We offer solutions from simple reactor vessels to elaborate reactor systems
- After design & manufacture, we offer installation, servicing & testing spares
- Every reactor is fully tested & certified
- All relevant safety standards conformed to