

Bullfrog Batch

Multiple Reactor Configuration

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Reactors for Research

Our Bullfrogs can be found all over the world - we have systems in the US, Europe, Asia and Australia. Some are over twenty years old and Yes we continue to support them.

Our Chemistry platforms provide independently controlled zones with high and low pressure solutions. Three, four, eight zones are typical, with the facility to mix and match different reactors or vials with low & high pressure. Our systems offer a flexible platform supporting activities from screening to process optimisation and scale-up. Typically a user can design experiments to:

- Run all reactions at the same temperature and pressure while varying catalyst loading.
- Run all reactors with identical loads varying pressures and a common temperature to study the effect of pressure on reaction rates.
- Run individual reactors with individual loading and temperature and pressure to screen multiple options for activity.

The high pressure reactors designed for you.

Cambridge Reactor Design has supplied reactor systems for research for over 25 years. Our multiple reactors vary from 2 mL to 20 L, available in a range of configurations to suit any laboratory or application. As we manufacture our products in house, we are able to produce bespoke solutions and cater for particular reactor options for example in the areas of feed and sampling, stirring and variations in thermal control. Our process controller offers the ultimate in graphical recording combined with PID and Cascade control. Our systems are secure may come with a webserver so data can be viewed from anywhere - on your Apple IPAD or iPhone.



6 x Low Pressure Glass Reactors. For Testing Lubricants, 250 C.



12 x High Pressure Glass Reactors, C276, Hydrogenation and with hydrogen dosing, 200 bar, 250 C.

Multiple Reactor Configurations



152 x High Pressure Reactors, SS316, Gas
Liquid Reactions, 100 bar, 170 C.



12 x High Pressure Reactors, SS316, Gas
Liquid Reactions, Magnetic Stirring, 20 bar,
170C.



Our Chameleon Range. 4x High Pressure
Reactors, Gas/Liquid Reactions, Magnetic
Stirring, 30 bar, 120C.

Our computer software is Labview based so simple to upgrade. It features a range of innovations to make it easy to use and to reduce training time and the need for specialist users. If you would like the source code to extend the application further, this can be arranged.

Features of our Systems

- Typically, three or four reactors
- Typically, 2 mL to 200 mL
- Magnetic or overhead stirring designs
- Materials types - Peek, Stainless steel, C276 and Titanium
- Standard operating pressure 200 bar
- Standard operating temperature 200 °C
- Gas dosing on demand
- Advanced control systems if required
- Labview control software
- Personalised installation and training
- Maintenance levels to suit you.

With a large variety of options and accessories, you'll be able to select a configuration that matches your needs- whether you want to evaluate a different reaction every time, or carry out standard tests every day. And if our standard products don't provide exactly what you want, our customisation capability means that we can design a solution for you.

All our batch reactors are simple to set up, have a compact footprint and represent excellent value for money. And, of course, our reactors are always fully safety tested and can be certified to meet relevant legislation.

**To find out more please call us
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