

## fReactor Flow Chemistry Platform

*...One for every lab*

fReactor was developed by the University of Leeds and Asynt Ltd to offer an affordable entry point into the world of flow chemistry. fReactor provides an expanding platform of intuitive and flexible flow reactors for the development of materials and synthesis routes.

The fReactor system utilises apparatus you may already have in your laboratory. Heating and mixing are provided by a standard magnetic hotplate stirrer and fluidic pumps are used to drive the reagents around the modules.

**Flow chemistry** is a process whereby reactants are continually pumped into a reactor and product continually leaves.

There are many different types of reactor available and these are often temperature and pressure controlled, providing advantages over batch and microwave chemistry.

### Benefits include...

- Faster reactions
- Improved reaction selectivity
- Safer, more controllable reactions
- Rapid optimisation
- Easier scale-up options
- Promotes green, sustainable chemistry



[www.fReactor.com](http://www.fReactor.com)

We also offer a dedicated fReactor website to help you set up all your equipment and get started in flow chemistry.

Listed within our online library there are a number of publications utilising fReactor, including examples of single and multiphase reaction systems such as:

- Enzymatic biotransformations
- Synthesis of N-Chloroamines
- Oxidative biocatalysis
- Crystallization
- Hydrogenation



## fReactor

*Intuitive and simple to use*

fReactor is the brainchild of Professors John Blacker and Nikil Kapur from the University of Leeds, UK.

Their backgrounds in Chemical Engineering and Process Chemistry have shaped fReactor into an intuitive and simple to use tool that is a welcome addition to anyone looking to access flow chemistry.



fReactor™  
...one for every lab

fReactor is rated for operation at up to 7 bar pressure and heating to 100 °C.

Each fReactor module is manufactured from PEEK as standard and includes a toughened glass window for observation.



## Popular Purchase Options

**ADS22-KIT: fReactor Classic Complete Kit:** Includes heating plate with safety shield & 5 x fReactor Classic modules (1.8 mL each, PEEK) with fittings.

**NEW ADS23-KIT: fReactor MAXI Complete Kit:** includes heating plate with safety shield & 5 x fReactor MAXI modules (7.5 mL each, PEEK) with fittings.

**Both fReactor Classic and fReactor MAXI now available in Hastelloy, for increased chemical compatibility. Please contact us for further information.**



fReactor™  
...one for every lab

Find out more about fReactor and the many advantages of flow chemistry via our YouTube channel.

**We are continuously working** together with The University of Leeds to add further tools and options to the fReactor platform.



**To keep up to date** with new additions, and be first to hear about our future webinars, please register your interest at:

[www.asynt.com/register-your-interest/fReactor](http://www.asynt.com/register-your-interest/fReactor)