

PRESS RELEASE

**Flow Reactors Improve Process Reproducibility, Scalability & Yields**

The **FlowSyn™** range of integrated, flow reactor systems from **Uniqsis Ltd.** has been designed to handle everything from homogeneous single reactions to complex, multi-reagent reactions. A range of optional gas addition, microwave, low temperature and binary pump (4-channel) modules further enhance the operational versatility of the FlowSyn system.

Flow chemistry in micro-reactors has many advantages over batch processing notably better reproducibility and scalability, improved yields and fewer problems with unstable intermediates or exothermic reactions.

Developed by chemists for chemists, the Uniqsis FlowSyn system is available with the widest range of reactors (2 - 60ml) in a choice of inert materials including stainless steel, Hastelloy®, PFA, PTFE or even Copper. As a consequence the FlowSyn System is able to perform an unmatched range of chemistries. Reactions requiring the use of strong acids such as nitric acid (nitrations) and powerful organometallic bases such as butyl lithium (metallations) are now routinely possible. A unique 2- or 3-channel borosilicate glass mixer chip reactor enables the FlowSyn system to undertake high throughput applications, fast mixing dependent reactions and even highly exothermic reactions requiring temperature control.

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Within the FlowSyn system, two high pressure pumps operating at up to 100 bar (1400 psi) deliver reagents, via a mixer, into electrically heated flow reactors. Back pressure regulators pressurise the system, allowing solvents to be superheated to a maximum of 260°C\*.

Reaction outputs from the FlowSyn system can be fractionated or optimised at steady state, after which the system automatically flushes itself ready for the next experiment. The whole process, from start to finish, is controlled using the highly intuitive integrated FlowSyn control interface.

To find out more about how FlowSyn Continuous Flow Chemistry Systems can enhance your chemical syntheses please visit [www.uniqsis.com/paFlowSystem.aspx](http://www.uniqsis.com/paFlowSystem.aspx) or contact Uniqsis now on +44-845-864-7747 / [info@uniqsis.com](mailto:info@uniqsis.com).

Uniqsis specialises in the design of meso-scale continuous flow chemistry systems for a wide range of applications in chemical and pharmaceutical research. The company's aim is to make flow chemistry easily accessible to both novices and experienced users.

- Maximum temperature dependant on flow path material.

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Illustrative image: (image available on request)



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