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Economical Reaction Optimisation in Flow Chemistry!

New functionality for the Uniqsis FlowSyn continuous flow reactor allows the user to conduct multiple flow chemistry experiments in a single run - ideal for reaction optimisation, profiling or scale up.

Introduced at the recent 2nd Uniqsis Flow Chemistry Symposium in Cambridge, the optional Multiple Experiment Package integrates the FlowSyn reactor with a Gilson FC203B or FC204 fraction collector to produce a very compact, cost-effective system capable of running up to 10 sequential experiments with different reaction times, temperatures and reagent ratios. Everything, including the fraction collector, is controlled via the easy-to-use FlowSyn user interface, so no separate PC is needed. Setting up 10 experiments takes only a few minutes, as the user only has to set up one reaction completely. This is then replicated to create a series of experiments, in which individual parameters can easily be modified by the chemist using a simple spreadsheet user interface.

Two operating protocols are available. In fractionation mode, reaction products are collected in programmed fractions. In the unique optimisation mode, product is collected, during a programmable window, in a single vial. A small aliquot can also be taken during the experiment and delivered into an LCMS vial where it can be mixed with a quench reagent so that reaction progress can be measured.

FlowSyn offers several choices of reactor. The innovative FlowSyn coiled reactors (patent pending) are available with different volumes and materials – stainless steel, PTFE or PEEK and Hastelloy® and can be used at up to 260°C and pressures up to 1000psi (~70 Bar) in complete safety. A variety of column reactors is also available, and the new FlowSyn cooling tray takes reaction temperatures down to -60°C.

While FlowSyn offers considerable flexibility, Uniqsis is committed to meeting customer needs, and is currently working on a number of customised FlowSyn solutions for client-specific applications.

Contact info@uniqsis.com , visit www.uniqsis.com or call +44 (0)845 864 7747 for more information.