PRESS RELEASE

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Cambridge Companies Collaborate in the Launch of New Products for Flow Chemistry

Uniqsis Ltd and Cambridge Reactor Design Ltd (CRD), both based near Cambridge, England, are collaborating in the commercialisation of an advanced cooling system for continuous flow reactors used in flow chemistry. Known as the FlowSyn Polar Bear™, the new system enables controlled mixing and cooling of reagents at temperatures down to -88°C.

The high performance Polar Bear™ chiller module was developed in conjunction with the Ley Group (Innovative Technology Centre), Cambridge, England, and is specifically intended for flow chemistry applications. Designed as a fully integrated plug-and-play module, the Polar Bear™ uses advanced cooling technology without the need for solid CO_2, solvents or heat transfer fluids to deliver rapid cooling down to -88°C at the simple touch of a button. When partnered with the Uniqsis FlowSyn continuous flow reactor, it becomes the perfect tool for rapid pre-cooling of reagents and controlled mixing and cooling of reagents in highly exothermic flow chemistry reactions.

Solutions for cooling flow chemistry reactions below -70°C have historically been cumbersome and inconvenient, involving pressurised gas cylinders and/or heat exchangers. With its fully integrated plug-and-play design, the Polar Bear™ is both easy to install and simple to operate, as well as providing superb cooling performance. Comments Paul Pergande, Group MD of Uniqsis: "We are very pleased to be able to collaborate with CRD on the commercialisation of this important new product. With their expertise in product development for the chemical industry, CRD are in an excellent position to partner us in our mission to broaden the capability and applications of FlowSyn. We are already working with them on commercialising a second product which will be released in the coming weeks - a new gas module which will deliver a gas-saturated solvent input to the FlowSyn flow reactor."

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Dr Bashir Harji, founder and MD of CRD, observes: "As a company we always relish the challenge of developing solutions for difficult applications, so when Uniqsis approached us with the need for advanced cooling technology for their FlowSyn system, we were delighted to be able to work with them."

The Polar Bear™ module is compatible with all FlowSyn coil reactors and mixer blocks and works in combination with and can be controlled by any FlowSyn system. For example, when combined with FlowSyn Auto-LF, series of combinatorial experiments, each at a different sub-ambient temperature, can automatically be performed in sequence.

The Polar Bear™ is available as a standalone chiller unit with its own control unit or integrated with FlowSyn to make up the FlowSyn Polar Bear™ system. Both options are available from Uniqsis who will be selling and supporting the FlowSyn Polar Bear™ through its offices in the UK and USA and through its international distribution network.

Founded in 2007, Uniqsis has quickly established itself as a developer and global supplier of integrated continuous flow reactors for academic and industrial research institutions engaged in chemical research. The company's flow reactor system known as FlowSyn enables a wide range of experiments to be carried out safely and efficiently, under precisely controlled temperature and pressure. Typical applications include homogeneous and heterogeneous reactions, metalations, combinatorial experiments and library synthesis. The new Uniqsis website covering the latest FlowSyn products and news is now live at www.uniqsis.com

Cambridge Reactor Design, founded in 1989, has a long and successful track record of developing ingenious customised and off-the-shelf solutions for a wide range of applications in the chemical industry, including reactors for continuous and batch processing, robotic workstations for liquid-liquid extractions and filtration as well as systems for corrosion testing and continuous crystallisations. More information on Cambridge Reactor Design's products and solutions can be found at www.cambridgereactordesign.com.

Visit www.uniqsis.com, e-mail info@uniqsis.com, or call +44 (0)845 864 7747 for more information.

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Editors' notes

About Uniqsis Ltd

Based near Cambridge, UK, Uniqsis was formed in January 2007 by Asynt Ltd and Grant Instruments (Cambridge) Ltd to develop innovative continuous flow chemistry products for customers in both the research and biopharmaceutical sectors. A consortium of expert engineers, supporting companies and scientists from the pharmaceutical industry has been assembled to provide in-depth scientific and technical expertise to the development of this exciting new technology.

About Cambridge Reactor Design Ltd

Cambridge Reactor Design was founded in 1989 by Dr. Bashir Harji, as a spin-out from Cambridge University. Initially CRD provided customised engineering projects to chemistry and chemical engineering laboratories at Cambridge University, expanding its service to other UK universities, then to UK and European companies. Today CRD is fully established as a customised engineering and automation solutions provider to the chemistry sector, with a global customer base.