vapourtec
precision flow chemistry

FULLFLOW

Summer Newsletter

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Welcome to the Summer 2025 issue of FullFlow, the flow chemistry newsletter from Vapourtec, a must-read for all scientists interested in continuous processing applications and technology.
Read on to find out the latest product news, new publications using the Vapourtec flow chemistry systems, and upcoming events.

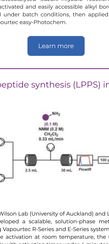
Product News

Demo units of the innovative Peptide-Builder ready for action

After three years of development the demo units are finally ready for action!
The Peptide-Builder is a compact, fully automated, lab-scale synthesizer that transforms solid-phase peptide synthesis (SPPS) through advanced flow chemistry technology delivering high-throughput, open-access production of multiple peptides with exceptional speed, purity, and yield, all within an intuitive, user-friendly platform.

Learn More

Launch of the eBPR-GL – optimised for gas-liquid reactions



As requested by many customers, we are pleased to launch a new version of the self-contained, electronically adjustable back pressure regulator (eBPR) that is optimised for handling gases and gas-liquid mixtures. Dubbed the eBPR-GL, it utilises advanced composite materials and offers unparalleled performance even with gas-liquid mixtures, delivering precise control of back pressure in the range 0.1 to 10 bar (g) over a flowrate range of 0.01 ml/min to 20 ml/min.

Learn More

Latest News

Novel photocatalysed Suzuki–Miyaura reaction

The uksresearchgroup.com led by Dr. Upendra K Sharma, in collaboration with researchers from the KU Leuven, University of Zurich, Ghent University and RUDN, have published a photocatalysed Suzuki–Miyaura reaction in Chemical Science Journal, employing inactivated and easily accessible alkyl boronic acids. The reaction was initially optimized under batch conditions, then applied to continuous flow for scale-up using the Vapourtec easy-Photochem.

Learn more

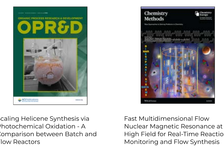
Liquid phase peptide synthesis (LPPS) in flow

Researchers from the Wilson Lab (University of Auckland) and Ley groups (University of Cambridge) have developed a scalable, solution-phase method for peptide bond formation in flow using Vapourtec R-Series and E-Series systems.
Using mixed anhydride activation at room temperature, the team achieved efficient coupling of amino acids with activation times under 4 minutes and yields of up to 98%. The method enabled gram-scale synthesis of a linear hexapeptide precursor to the natural product Sceptrin A.

Learn More

Application Notes

Below, we highlight two application notes that have collectively been downloaded an impressive 300 times over the past three months.



Application Note 69:

Automated CF SPPS and evaluation of CLP-1 peptide

This application note demonstrates the capabilities of the Vapourtec Peptide-Explorer system using the incretin hormone GLP-1 as a model peptide.

Learn More

Application Note 72:

Cleaving peptide in flow

This application note demonstrates continuous-flow peptide cleavage, improving safety and reducing cleavage time from 3 hours to just 30 minutes.

Learn More

Events

ACS Fall
17th - 21st August
Washington, DC - USA
Attending - Ali Deuchars

Find out more

AIChE Fall 2025
2nd - 6th November
Boston, MA - USA
Attending - Dr Manuel Nuño

Find out more

Flow Chemistry Asia
6th - 7th November
Kuala Lumpur - Malaysia
Attending - Duncan Guthrie

Find out more

New Approaches in Medicinal Chemistry
12th November
Belgrave, London - UK
Attending - Dr Manuel Nuño

Find out more

Publications

Below are 6 compelling publications selected from the 50+ publications citing Vapourtec in recent months. To view all publications citing Vapourtec, Click here

Generation and Use of Reactive Intermediates Exploiting Flow Technology

Learn more

Advancing continuous encapsulation and purification of mRNA vaccines and therapeutics

Learn more

Scaling Heliclene Synthesis via Photochemical Oxidation – A Comparison between Batch and Flow Reactors

Learn more

Fast Multidimensional Flow Nuclear Magnetic Resonance at High Field for Real-Time Reaction Monitoring and Flow Synthesis

Learn more

Push button, automated flow synthesis of biaryls and stilbenes using palladium-catalysed cross-coupling reactions

Learn more

Electrochemical Fluorination of Proline Derivatives

Learn more

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