vapourtec
precision flow chemistry

FULLFLOW

Spring Newsletter

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Welcome to the Spring 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

NEW Reaction Controller and Datalogger

The recently released Reaction Controller and Datalogger Module improves the automation of flow chemistry experiments by enabling automated control and logging when using third-party pumps, recirculators, flow meters, sensors and balances. Designed for use in chemistry and chemical engineering, the module builds on the capabilities of Vapourtec's existing flow control software, providing over 120 additional control or logged variables, enabling applications in pilot and production scale environments.

Learn More

NEW Universal tube for peristaltic pumps

Manufactured from a tough, perfluoroelastomer composite, the BLACK tube is engineered to handle an exceptionally wide range of aggressive reagents and solvents. From BuLi, LDA, and concentrated acids (such as TFA, nitric, formic, sulphuric, hydrochloric) to THF, DMF, DMSO, and many more - this tubing is formulated to give universal chemical compatibility and superior durability.

Learn More

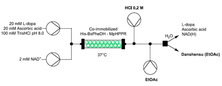
Latest News

R-Series installation at ANSTO to enhance deuterated molecules

The National Deuteration Facility (NDF) at the Australian Nuclear Science and Technology Organisation (ANSTO) has recently enhanced its research capabilities with the installation of a Vapourtec R-Series flow chemistry system. The addition marks a significant step forward in the production of deuterated molecules, supporting a wide range of scientific applications.

Learn more

Immobilised biocatalyst facilitates flow route to Danshensu



Valentina Marchini and Francesca Paradisi from The University of Bern have used the Vapourtec packed-bed reactor to synthesise danshensu, a pharmacological agent with significant use in traditional Chinese medicine. In particular, they immobilised phenylalanine dehydrogenase from Bacillus sphaericus (BsPheDH) and a novel hydroxyphenylpyruvate reductase from Mentha x piperita (MpHPPR) that, alongside NAD+, converted L-dopa into the pharmacologically active compound danshensu in 96% purity, with overall preparation rate of 1.84 g·L−1·h−1.

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 26:
Continuous Fluorination Reaction with Diethyl Amino Sulfur Trifluoride (DAST)

This application note illustrates the use of the Vapourtec R-Series system to pump highly reactive, moisture-sensitive reagents in a safe and stable continuous reaction.

Learn More

Application Note 34:
Reaction of organolithium reagents using the E-Series

This application note illustrates the use of the Vapourtec E-Series system to run organometallic reagents such as n-Butyl lithium under continuous flow conditions.

Learn More

Events

Synth Flux
4th - 6th June
University of Rouen - France
Attending - Naomi Lawson
Find out more

Go with the Flow Chemistry
9th June
Cardiff University - Wales
Attending - Dr Manuel Nuño
Find out more

ACS Fall 2025
17th - 21st August
Washington DC - USA
Attending - Ali Deuchars
Find out more

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

Publications

Below are 8 compelling publications selected from the 50+ publications citing Vapourtec in recent months. To view all publications citing Vapourtec, click here

Phototransposition of Indoxazole to Benzimidazoles: Tautomer-Dependent Reactivity, Wavelength Dependence, and Continuous Flow Studies

Learn more

The impact of binders on magnetic framework composite pellets for CO2 capture

Learn more

Bromine radical release from sulfonyl chlorides facilitates the activation of alkylboronic acids: a boron selective Suzuki-Miyaura cross coupling

Learn more

Recent Green and Sustainable Pd-Catalyzed Aminations

Learn more

Continuous Flow Block Copolymer Nanoaggregate Synthesis and Their Flow Dialysis Purification

Learn more

Continuous flow synthesis of alkynes from isoxazolones

Learn more

Photocarboxylation of Arylated ZH-Azirines Exploiting Continuous Flow Technology

Learn more

Biocatalytic Reduction of Heterocyclic Imines in Continuous Flow with Immobilized Enzymes

Learn more

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