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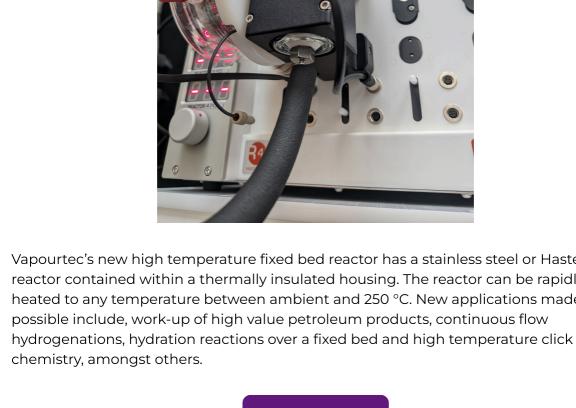
FULLFLO Winter Newsletter

www.vapourtec.com

Welcome to the Winter 2025 issue of FullFlow, the flow chemistry newsletter from Vapourtec, a must-read for all scientists interested in

Read on to find out the latest product news, new publications using the Vapourtec flow chemistry systems, and upcoming events. **Product News**

continuous processing applications and technology.



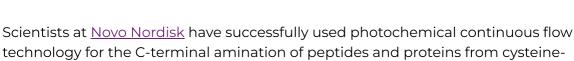
Learn More SF-10+ heated laboratory pump



Vapourtec and the Trant Team from the University of Windsor are working together towards improving the efficiency of solid-phase peptide synthesis (SPPS) by using Fast Flow SPPS. This partnership aims to enhance the synthesis of peptides and small proteins using sub-stoichiometric amounts of amino acids without compromising purity nor

Learn more

Photochemical functionalisation of peptides and proteins



extended polypeptide precursors in a process using the Vapourtec R-Series flow system and UV-150 photochemical reactor. The rapidity with which biologically relevant C-terminal amides could be prepared was a significant improvement on existing techniques; photolabile group installation and photochemical degradation could be undertaken in one day. In addition, the environmental impact is minimised.

New Poster:

scale.

low at just 795 ml.

Application Note 78:

Prepared by scientists from Novo

continuous flow in the cleavage and

reducing this process to as little as 2.5

min residence time, regardless of the

Learn More

deprotection of oligonucleotides,

Nordisk, this application note

demonstrates the benefits of

improvements.

meets business

in continuous flow

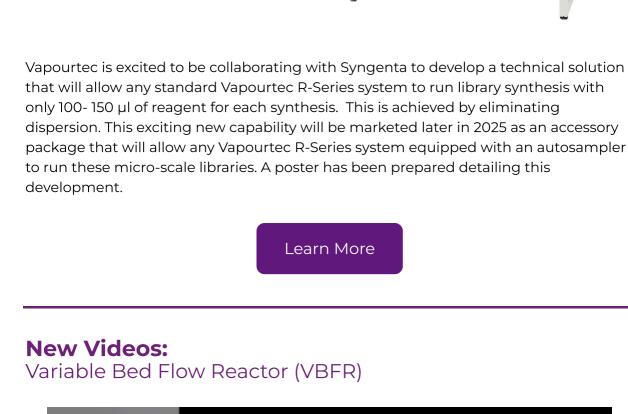
Cleavage of oligonucleotides

synthesis time.

New Nature paper:

Microscale High-Throughput Synthesis in Continuous Flow

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In the latest video from Vapourtec, we highlight the Variable Bed Flow Reactor (VBFR) and advanced automation software to synthesize a 28-mer GLP-1 peptide at 0.2 mmol

Using only 3 equivalents of amino acid the process achieves a crude purity of 77% in only 3.5 hours synthesis time. The total solvent and reagent consumption is remarkably

Watch Here

Application Notes

scale. Also offering safety and purity time and catalytic loading.

Events

Photo/Electro-chemistry

Attending - Dr Manuel Nuño

SCI Highlights in

11th - 12th February

ACS Spring 2025 23rd - 27th March

Attending - Ali Deuchars

Flow Chemistry Europe

Attending - Dr Manuel Nuño

Bristol Synthesis Meeting

Attending - Dr Manuel Nuño

Publications

California - USA

3rd - 4th April

Malaga - Spain

8th April

Bristol - UK

& Naomi Lawson

Below are 6 compelling publications selected from the 50+ publications citing Vapourtec in recent months. To view all publications citing Vapourtec, <u>click here</u>

Catalysis &

London - UK

Application Note 79:

using CSTRs

Suzuki-Miyaura coupling

This application note demonstrates the

continuous stirred-tank reactors (CSTR)

Short residence time, high conversion

and simple set up to change residence

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Find out more

Find out more

Find out more

Find out more

to perform heterogeneous Suzuki-

benefits of using a cascade of

Miyaura couplings including:

& Duncan Guthrie

University of

BRISTOL

nature

communications

cross-electrophile

homologation and

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Electrochemical

Dialkyl Bromides

Cyclopropanation of 1,3-

Magnetic framework Metal-free photocatalytic composites via continuous coupling enables C1 flow syntheses for CO2 capture alkylation of carboxylic acids with aldehydes

OF CHEMISTRY Monitoring and controlling

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ACS APPLIED MATERIALS Organic EARLY Reactions

Continuous Flow Chemistry and Bayesian Optimization for Polymer-Functionalized Carbon Nanotube-Based Chemiresistive Methane

Structurally Diverse

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Reaction Chemistry & Engineering

zeolite synthesis via

fed-batch strategy

reactor-based solutions: a

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NEW High temperature fixed bed reactor

Vapourtec's new high temperature fixed bed reactor has a stainless steel or Hastelloy reactor contained within a thermally insulated housing. The reactor can be rapidly heated to any temperature between ambient and 250 °C. New applications made