

Smart, safe and clean chemistry

FlowSyn Quench Microreactor



New standard for effective mixing on FlowSyn

FutureChemistry developed a unique upgrade for FlowSyn, enabling robust and reliable flow chemistry. Ultrafast reactions, quenching and mixing are now available in a small, safe and reproducible microreactor module.

FlowSyn Microreactor Module features:

- Preparative scale synthesis
- Integrated quenching
- Plug-and-play installation on FlowSyn
- For heated and chilled reactions, excellent control over temperature

Applications

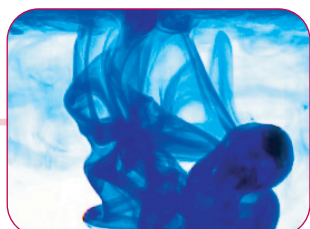
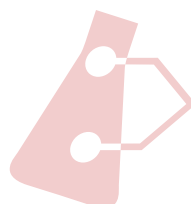
Continuous production of chemical compounds by microreactors has proven to have benefited for many applications. A short selection of reactions which benefit from continuous flow:

- Azide formation
- Nitration of aromatic compounds
- Bromination reactions
- Exothermic esterifications and hydrolyses

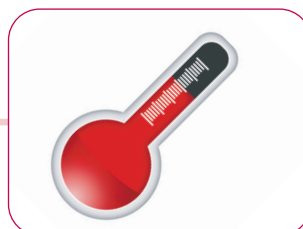


FlowSyn

Benefits:



Rapid mixing



Excellent temperature control



Minimal footprint

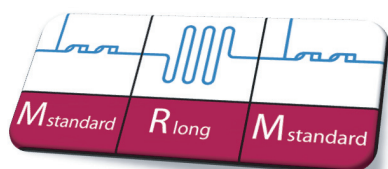
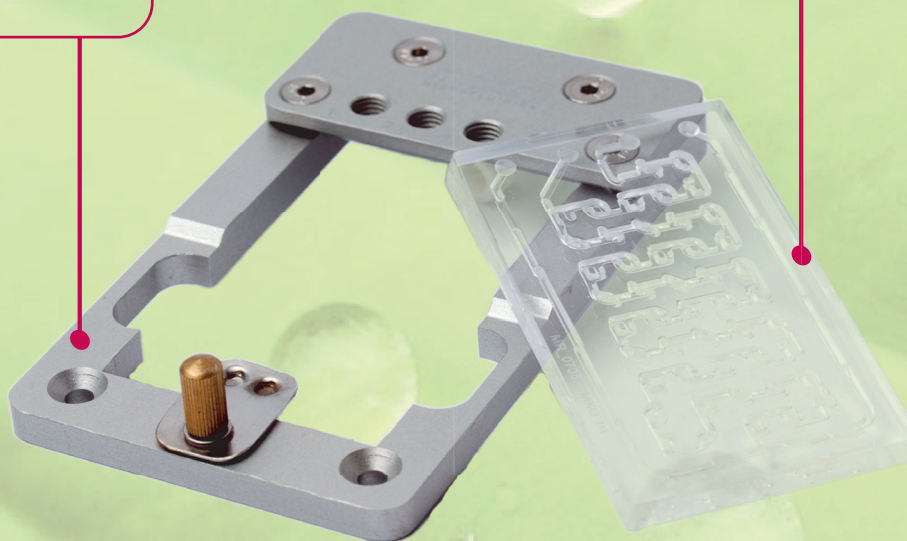
FutureChemistry Microreactors

Microreactor Interface

The interface is specifically designed for *FlowSyn* and provides a reliable fluidic connection and maximum ease-of-use.

FlowSyn Quench Microreactor

The *FlowSyn* quench microreactor is designed for preparative scale flow chemistry and suited for general two-component synthesis reactions, mixing and quenching, as well as three component synthesis reactions.



Microreactor design

The microreactor has two reagent inlets, followed by mixers and a residence time compartment. A third inlet enables you to quench the reaction that takes place inside the microreactor, or perform two-step synthesis reactions.



www.futurechemistry.com/webshop
or call +31 (0) 24 711 4029

Specifications:

(FlowSyn Microreactor Module includes both interface and microreactor)

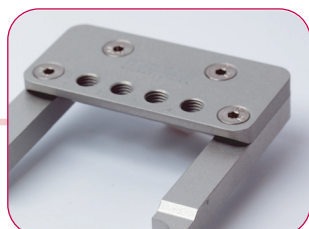
Microreactor Interface

Material: anodized aluminium
Fluidic connection: 1/4-28 threading flat bottom ferrules
Compatible with: FlowSyn, column module
Dimensions (L x W): 65 x 107 mm

Microreactor

Number of inlets: 3
Reaction volume: 0.65 mL
Flow rate: 0.02 - 20 mL/min
Reaction time: 1.95 s - 32.5 min

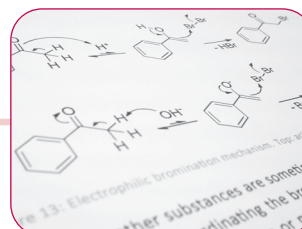
Features



Special designed interface



Reliable fluidic connections



For a wide range of chemical reactions