Future Chemistry

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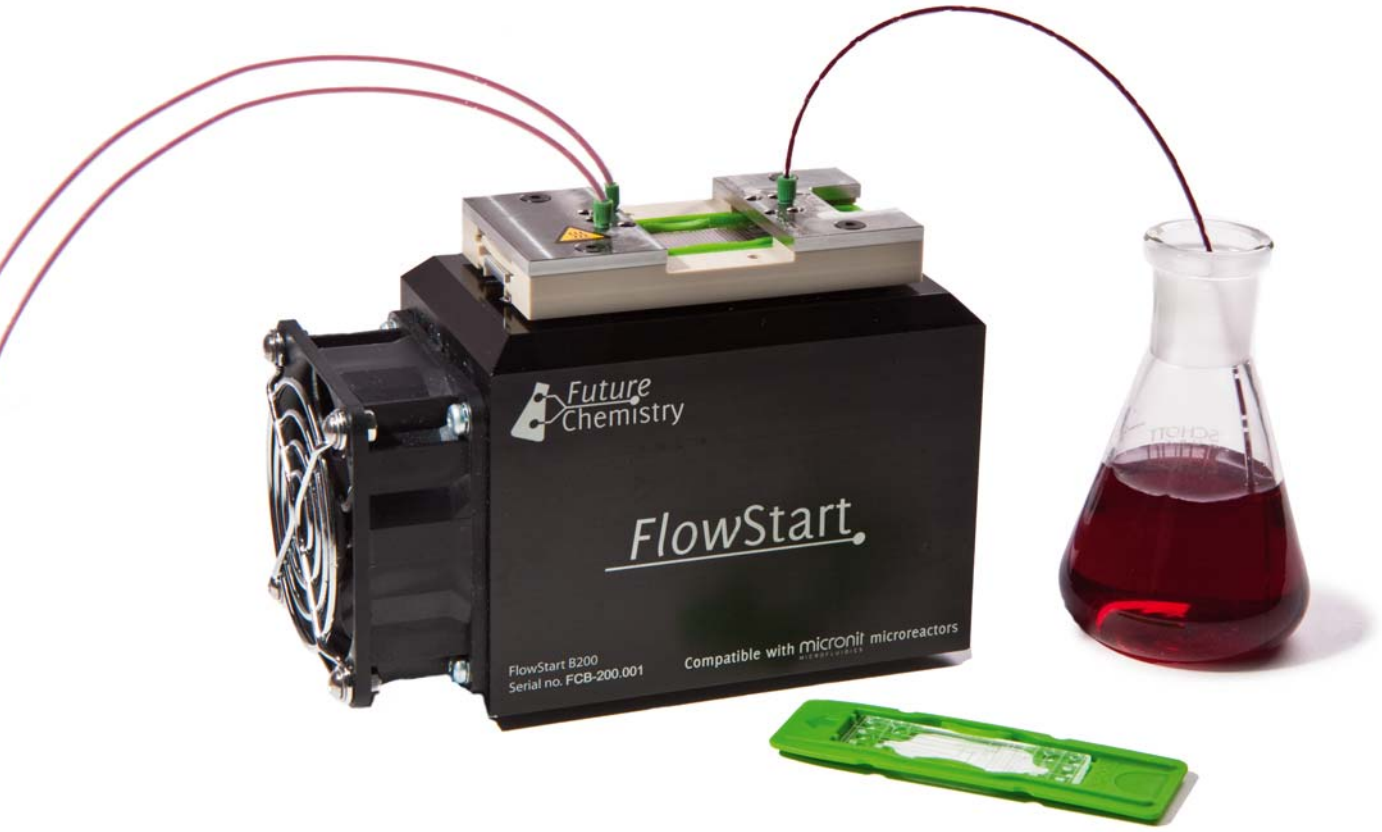
Smart, safe and clean chemistry

*Flow*Start



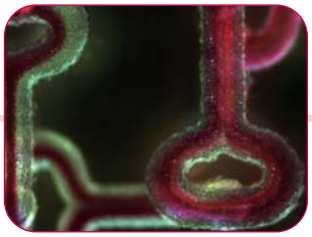
Features

With the FlowStart, you can start working with flow chemistry today. It is a complete package for flow chemistry, including advanced fluidic interfacing, temperature controller, pumps and all connections and tubings.

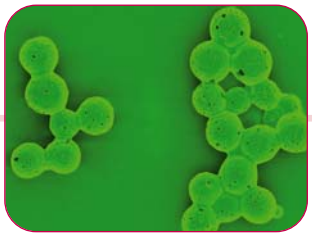
- Complete package for flow chemistry at an affordable price
- Easy to install and operate
- Accurate control over temperature and flow
- Wide range of microreactors available:
  - standard reactor designs
  - standard ultrafast mixers
  - standard droplet generators
  - custom designed microreactors

Designed in cooperation with micronit MICROFLUIDICS

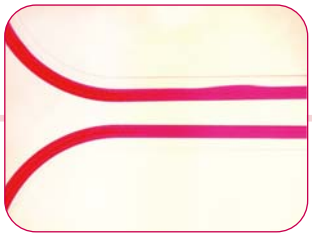
Give your flow chemistry a head start!



Fast mixing and reaction



Emulsification and droplet generation



Separation and analysis

FutureChemistry FlowStart

Pump control

Two pump modules enable easy control over flow rates

The pump modules, with syringes and tubing included, deliver the fluids to the microreactor. By changing flow rates, you can influence the experimental parameters such as reaction time, mixing ratio and droplet size.

Fluidic control

Sophisticated microreactor designs enable reproducible fluidic control on the micrometer scale

We supply a range of off-the-shelf microreactors for e.g. ultrafast mixing, droplet generation and flow chemistry and we offer custom designed microreactors.

Temperature control

The temperature controller heats or cools your microreactor to the desired temperature in a fast, easy and accurate way

The plug-and-play controller is equipped with an intuitive and straightforward interface.

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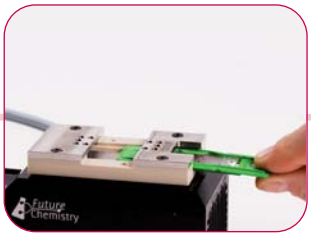
Specifications:

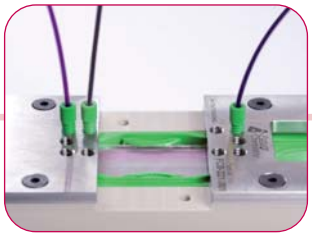
Volume of standard syringe:	*1 mL*
Max. pump pressure:	*0.7 MPa / 100 psi*
Min. pump rate:	*0.73 µL/hr*
Max. pump rate:	*35 mL/hr*
Size of compatible microreactors:	*15 x 45 x 1.8 mm*
Wetted parts:	*PEEK, PTFE, FEP, glass*

Temperature range:	*0 - 90 °C / 32 - 194 °F*
Heating speed (22 to 90 °C / 72 to 194 °F):	*36 s*
Cooling speed (22 to 0 °C / 72 to 32 °F):	*27 s*
Temperature accuracy:	*± 0.5 °C / 0.9 °F*
AC power:	*220/240 V or 100/110 V (50/60 Hz)*

Easy set up:



Step 1:
Insert microreactor



Step 2:
Connect tubing

Step 3:
Start your flow chemistry