-20°C | +150°C

XELSIUS

Highspeed Solubility & Synthesis Reactor

nevoLAB.de
lab data management

Introduction

inspired by the possibilities of lab automation!

XELSIUS solubility & synthesis reactor, is capable of taking charge of precise and individual temperature controlling and stirring.
The right fit in a wide range of applications in fully automated chemical processing.

A high grade of modularity makes this product accessible for small research facilities, as well as large scale industry-level development labs.
XELSIUS offers 10 individual reactor cells, but can easily be customized.

Controlled by an easy-to-use software interface.

XELSIUS can be easily combined with our SAMPLIFY product family.

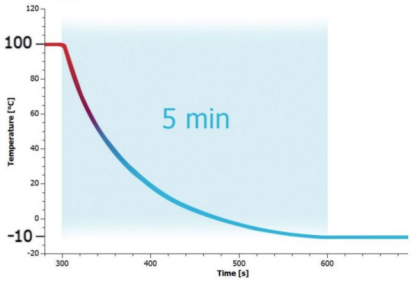
Key Features

- Highest Flexibility
- Up to 10 reaction cells per unit
- Independent control of each individual reactor cell
- Temperatures: –20 to +150 °C
- Individual stirring (1.500 rpm)
- PTFE Coating

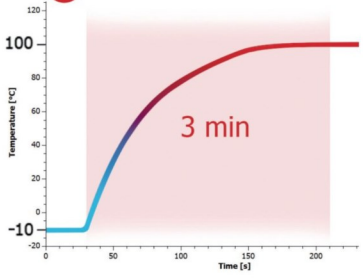
Application

- Temperature Studies
- Optimizing of Reactions
- Crystallization Analysis
- Solubility Profiles
- Process Optimization
- DoE Experiments
- Screening studies

Rapid Cooling
100 to -10°C in 5 min



Rapid Heating
-10 to 100°C in 3 min



A smart combination

- Combinable with a flexible and easy to use robotic systems
- Time scheduled sample taking
- Flexible dosage of reagents
- Customized app programming
- Integrated sample preparation

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XELSIUS	
Article number	8053 100 002 Reactor 8053 600 001 Power Supply with integrated PC
Dimensions	Reactor: 360 x 165 x 140 mm Power supply: 360 x 165 x 140 mm
Surface Material	Aluminium, PTFE coated
Weight, Reactor	12,7 kg (reactor); 6,4 kg (power supply)
Power Supply	
Input Output	240 V/AC 50/60 Hz, 1,2 kW 24 V/DC
Control	
System	Controlled by TCP/IP or local PC
Interfaces	USB, RS 485, TCP/IP, nevoLINK
Temp. control	PID Temperature-control for each cell
Stirring control	individual stirring speed control (max. 1500 rpm)
Data logging	Simultaneous data logging for each single cell. Export as Excel® , CSV, PDF-files and graphical visualisation
Performance	
Cells	10 cells per unit, vial diameter: up to 24 mm, 100 W performance per cell
Temperature range	- 20 °C to + 150°C
Stirring speed	Up to 1.500 RPM
Temperature ramping	Independent temperature profiles and ramping for each cell. Max. heating rate: 48 °C/min * Max. cooling rate: - 36 °C /min * * single cell operation with HPC Cell

Hardware

- for Vials with to 24 mm Ø
  Adapter for LV Vials 13 mm Ø
- highly chemical resistant and easy to clean PTFE coating.
- PID Temperature Control

Accessories

Reflux Condenser 24 mm Ø
Art 8053 700 002

Adapter Set for LV Vials 13 mm Ø
Art 8053 800 001

Reaction Tubes GL 25, 24 mm Ø
Art 8053 800 004

Low Volume Vials GL 25, 13 mm Ø
Art 8053 800 005

Lab Screen Terminal
Art 8053 700 005

Distributor:

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