

-20°C | +150°C

XELSIUS

Highspeed Solubility & Synthesis Reactor



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.

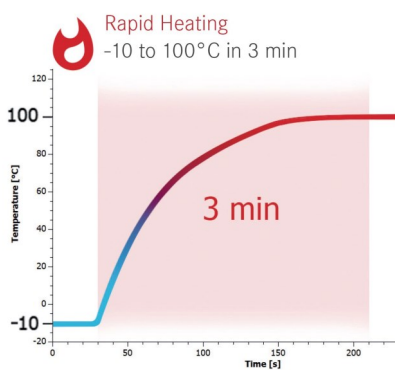
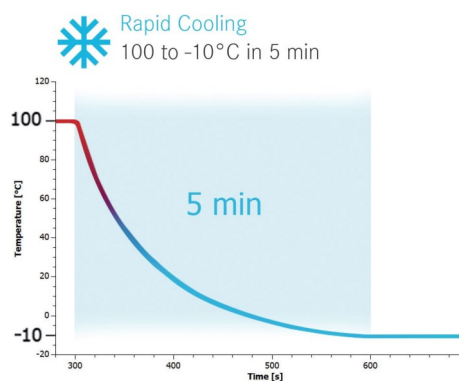
The right fit in a wide range of applications in fully **automated chemical processing**.

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

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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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 240 V/AC 50/60 Hz, 1,2 kW
Output 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



nevoLAB GmbH

Am Gehrenbach 8
D 88167 Maierhöfen
phone: +49 (0) 8383 929 566 0
fax: +49 (0) 8383 929 566 30
email: info@nevolab.de
www.nevolab.de