XELSIUS REACTION SOLUTIONS

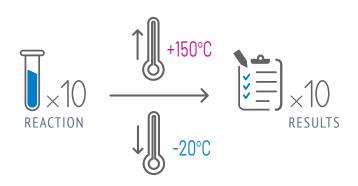




10 IN 1... AND MUCH MORE!

XELSIUS is a compact and fast reactor with 10 completely individually tempered and stirred reactor cells in the temperature range from -20°C to +150°C.

This system is suitable for parallel synthesis, flow chemistry, reaction and process optimization, as well as for performing DoE (Design of Experiment) studies.



Save valuable space in the fume hood with a flexible and innovative solution. With **XELSIUS** you save time, increasing your laboratory troughput.

XELSIUS System is integrated into a PTFE-coated housing, granting high resistance and protection in rough laboratory conditions.

The versatility of the product stands out: it can be used inside a fume hood, mounted onto a robotic platform, coupled together as multiple units for mass sampling or simply operated free standing on a laboratory work surface.

REPLACEMENT FOR:

- 10 heaters
- Magnetic stirrers
- Ice baths
- Reactor cells
- Reflux condensers

IN JUST ONE DEVICE!

A compact instrument under the fume hood as a clever and flexible solution for all aspects of operating and setting-up the reactor.



12 GOOD REASONS TO CHOOSE XELSIUS



Wide temperature range -20°C to +150°C



Different stirring rate in each vial



Long lifetime reaction cell



Ergonomic and small footprint



Overheat Protection for safety operation



Very intuitive and user-friendly Interface



Independent control of all parameters for each cell



PTFE coated surface resistant to aggressive acids/solvents



Live monitoring of flow and temperature on graphical display



Temperature stability and accuracy of ±0,1°C



Gloves sensitive touch screen



Flexibility of operation under fume hood or outside on bench-top surface



MAIN APPLICATIONS

- Reaction Optimization
- Drug Discovery
- Parallel Synthesis
- Route Scouting
- Gravimetrical Analysis
- Experiment Studies (DoE)
- Automated Filtration
- Flow Chemistry

SOFTWARE

LAB MODE

By using the software in LAB mode, simply set the temperature, stirrer speed and desired time or ramp and start immediately.

With intuitive and clearly arranged features, you can start working productively with the **XELSIUS** after just few clicks.



After switching on, the **XELSIUS** immediately reports to LAB mode.

You have a complete overview of the status of all 10 reaction cells and can immediately start with individual heating, cooling, stirring or temperature ramping.

Each cell can work separately with access to all essential functions.

With only few clicks the set parameters can be transferred to one up to ten reaction cells.

SOFTWARE

PRO MODE

It is simple to create more complex or multi-stage temperature profiles within PRO mode.

Even cyclic temperature control procedures e.g. for biological processes could be quickly realized, saved and documented.

The login function/user administration allows you to meet further GMP/regulatory requirements.





PRO mode allows to display, save and export diagrams, temperatures and other parameters of each cell.

Each diagram is freely configurable.

Scales, axis and displayed parameters can be chosen depending on what you want to observe.







ACCESSORIES



1 - REFLUX CONDENSER

An easy to integrate tool specifically developed for **XELSIUS** reactor. The innovative design prevents the annoying condensation of ambient air humidity. The evaporation losses of low-boiling solvents are significantly reduced. With the transparent cooling body you have an eye on what is going on inside. Stainless steel inserts guarantee an optimal heat transfer from the glass vials.



4 - WIDE RANGE OF VIALS AND CAPS

A wide range of reaction vials are available, in different volumes (from 1 to 30ml) and materials such as polypropylene, glass or PTFE to fulfill any modern laboratory need. The unique PTFE 5-Port-Reaction cap allows a wide range of continuous-flow and multi-stage processes.



2 - FILTRATION STICK

The filtration stick is a key accessory to prevent the presence of solid interfaces. This filter is essential to avoid any sediment contamination in your sample.



5-TEMPERATURE CONTROL

Thanks to the 10 x PT100 external temperature sensors, it is possible to independently control and monitor the temperature in each cell which is reported on the touch screen terminal.



3 - INERT WORKSTATION

To assure reproducible performances at screening scale and Inertization processes. This workstation can be easily coupled with the **XELSIUS** reflux condenser to provide excellent reproducibility, maintaining high degree of flexibility, thus offering a significant improvement in data quality and laboratory efficiency.



6 - SAMPLIFY PREP

Precise and automated dosage of a defined sample/solvent volume inside **XELSIUS** reaction vial. Easy and flexible preparation of dilution series by an intuitive software interface.

TECHNICAL SPECS

PERFORMANCE	
Reaction Cell Positions	10
Reaction Cell Diameter	24mm
Reaction Cell Power	100W
Working Temperature Range	-20°C to +150°C
Temperature Accuracy	±0,1°C
Temperature Stability	±0,1°C
Temperature Ramping	Independent for each cell
Maximum Heating Rate	+48°C/min
Maximum Cooling Rate	-36°C/min
Temperature Variation With Time Function	Yes
Heating and Cooling Mode	Peltier Module System
Stirring Rate	100 to 1.500 RPM
Sample Volume for each cell	Up to 30ml
Sampling during the reaction	Yes
Inert Gas atmosphere	Yes
Separate Electronic Module	Yes
Built-in anti-condensing circuit	Yes
Over Heating Protection	Yes

TECHNICAL DATA	
Dimensions (LxWxH)	Reactor module: 360 x 165 x 140mm
	Power supply module: 360 x 165 x 140mm
	Touch Screen Terminal: 10,1" (resolution: 1200 x 800)
Surface Material	Aluminium with PTFE coating
Weight	Reactor module: 13kg
	Power supply module: 7kg
	Touch Screen Terminal: 2kg

POWER SUPPLY	
Power Supply Input	240V-50Hz/110V-60Hz
Power Consumption	1,2kW

SYSTEM	
Display	Color Touch Screen
Interfaces	USB, RS232, Ethernet, WLAN, Bluetooth
Temperature Control Mode	P.I.D.
Data Logging	Simultaneous for each reaction cell
Export Extensions	Excel, CSV, PDF and graphic visualization







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