TEMP Microfluidic Heater/Cooler

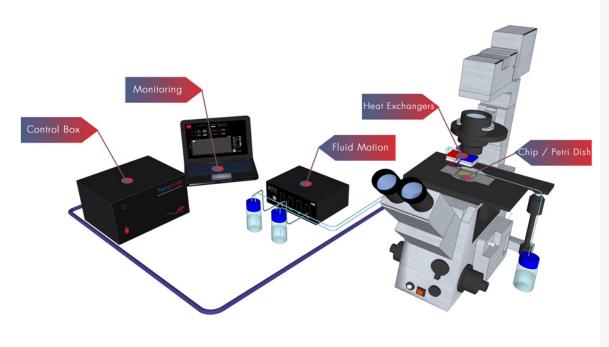


The first system designed to control the temperature of your microfluidic experiment

> 5°C/45°C range > Compatible with syringe pumps & our Elveflow® pressure controller > Stable temperature shifts within seconds







TEMP **FEATURES & BENEFITS**



> Temperature range

microfluidic experiments.

Broad temperature range: from +5°C to +45°C

Temperature shifts in real-time during

Perform stable temperature shifts within seconds.

> Precise

>Fast

Electronic temperature precision: +/- 0.1°C.

>Monitoring

>Real-time

Setting & monitoring of complex temperature sequences using our software.

>Plug-and-Play

>Customizable

Various configurations adapted to

your needs: fast temperature shift,

microfluidic temperature gradient ...

A plug-and-play system, delivered with all needed hardware and software for rapid usage in the laboratory.



> Technical support

A team of experts in thermodinamics & microfluidics will provide you individual customer care, specialist advice and technical support: the guarantee for a solution tailored to your specific research

A lightweight and small-sized heat exchanger designed to fit smoothly with all universal microscope inserts.

Compatible Whatever your microfluidic chip we will propose you a solution to set and control the temperature of your sample.

>Compact



ELVEFLOW

Program custom temperature shifting sequences & control the temperature on your heat exchanger.

Fluid Actuation System

Control the pressure or flow rate using your pressure controller or a syringe pump.

3 ELVEFLOW®

Heat Exchangers

Our tiny heat exchanger is designed to deliver a precise temperature to the sample and can be integrated in any existing microfluidic setup

Chip or Petri Dish

Controlled temperature liquids are smoothly and precisely perfused into your microfluidic chip.

Our software Makes Your Work Easier

A simple & efficient temperature management software for experiments with total confidence!

The intuitive software interface allows an easy and immediate use.

The edition of temperature sequences allows high reproducibility of the experimental procedure.

Do your experiment then export & save the experimental data for further analysis.

TEMP -**TECHNICAL SPECIFICATIONS**

| Specifications | |
|----------------------------|--|
| Power supply | 120V-60 Hz / 230V-50 Hz |
| Number of channels | 2 independent |
| | temperature controls |
| Temp. Sensor Types | Pt100 |
| Cooling / heating elements | Peltier elements |
| Heat exchanger | Stainless steel waterblocks |
| Heat dissipation | Liquid cooling system |
| Temperature Homogeneity | < 0.5 °C |
| Temperature Precision | +/-0.1 °C |
| Temperature Range | 5°C - 45°C (extended range in option) |
| Thermal Power Control | PID, Performance-optimized |
| Control Interface | USB Tempocell Software |
| Output connectors | Female Luer Lock |
| Heat exchanger dimensions | 105 x 50 x 30 mm |
| Heat exchanger weight | 850 g |
| Computer specifications | USB 2.0 port or faster , Intel Pentium II 500 MHz |
| | or faster, 2 Go Hard Disk space, Windows XP, |
| | Vista and Windows 7 are supported, each both 32 and 64 bit. |
| Warranty | One year, parts and labour |

Related Products & Services



>Eppendorf® Microfluidic Tank

100% gas tight connection caps. 1.5 - 2 mL Eppendorf® tubes 15 mL BD Falcon® tubes 100 mL - 2 L Upchurch® bottle caps.



Connection Kits

Bored of microplumbing issues? Our kits enable to easily connect your microfluidic device to any pressure or flow control equipment.



> Broad Product Line

Elveflow instruments are designed to work together on your microfluidic setup. Switch valve system, flow rate monitoring, temperature control...



> Service

Benefit from our microfluidics PhD team's expertise. Take advantage of our support for specific developments on your setup.



> Grants & Partnerships

Elveflow invests in co-development and cooperative projects with academic, SME and industrial partners to take an active part in the development of microfluidics.

















