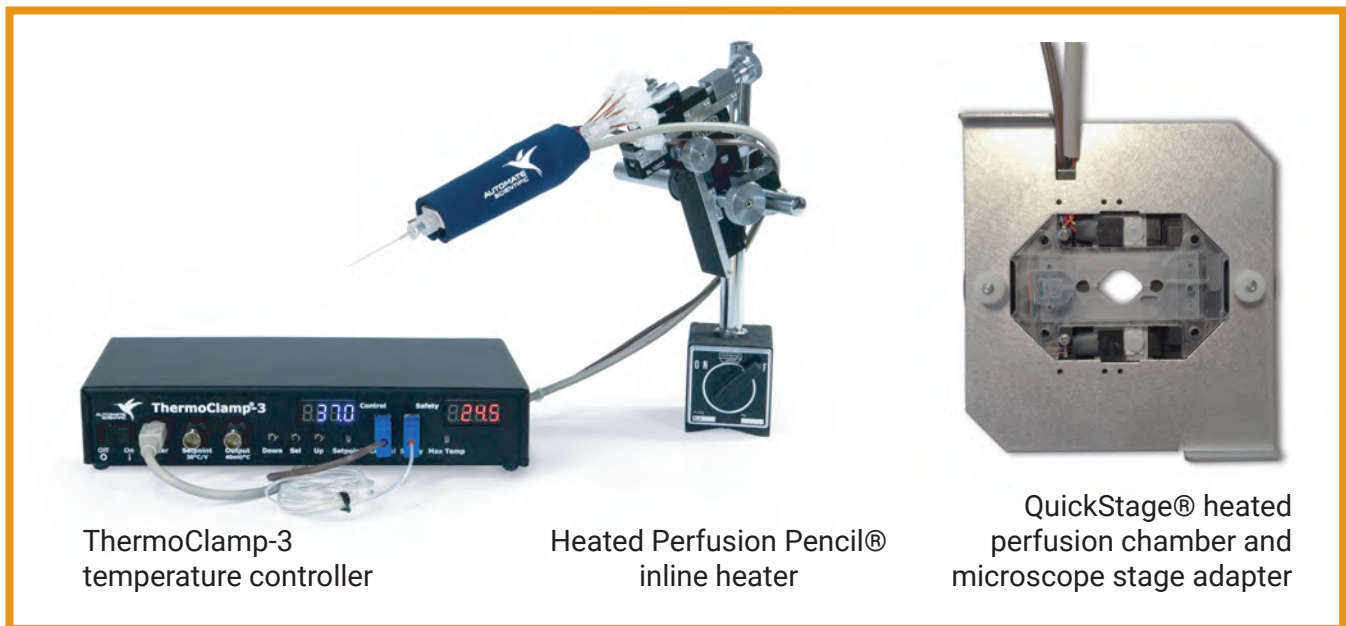


# Stop worrying about your cells overheating

New Thermal  
Runaway protection  
shown on page 2



**AutoMate Scientific's new ThermoClamp<sup>®</sup>-3 temperature controller** can maintain the temperature of your cells in electrophysiology and imaging experiments by heating your solutions, the perfusion chamber, or both.



ThermoClamp-3  
temperature controller

Heated Perfusion Pencil<sup>®</sup>  
inline heater

QuickStage<sup>®</sup> heated  
perfusion chamber and  
microscope stage adapter

- Combination inline heater plus multi-channel focal drug delivery
- Advanced auto-tuning temperature lock with fuzzy logic
- Ultra low-noise for physiology research
- Many inputs and outputs for computer control and recording
- Single and dual controllers available
- New low price starting at \$999

**Thermal Runaway** means a temperature controller has lost contact with the feedback sensor and keeps increasing the heat until a maximum temperature is reached because the controller thinks your cells are actually too cold.

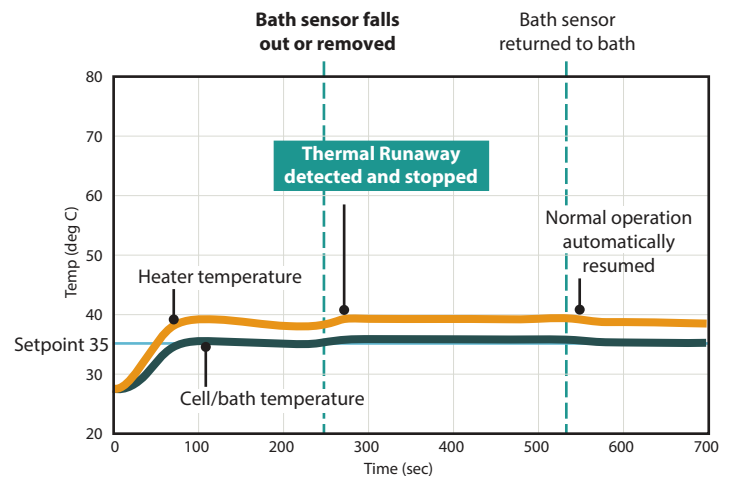
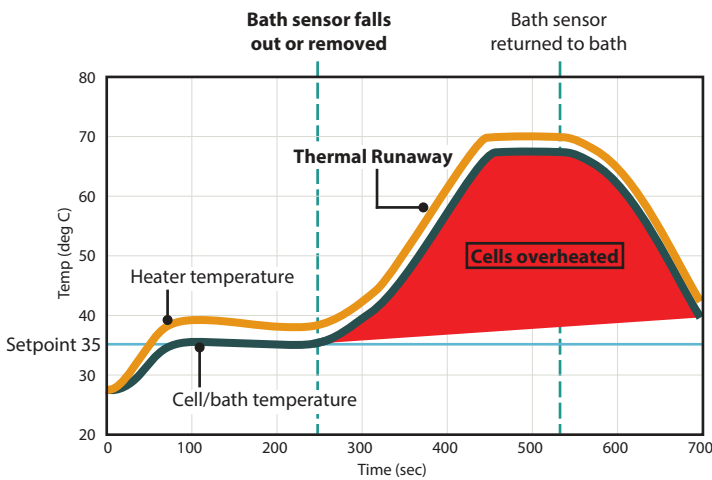
The ThermoClamp can be used with one or two temperature sensors. There is always a “Safety” sensor on the heater, and an optional “Control” sensor in your bath. Using two sensors is more accurate, but causes **thermal runaway** if the perfusion stops or the bath sensor comes out of the chamber.

The patent-pending ThermoClamp-3 is the world’s first and only physiology temperature controller that detects and prevents thermal runaway.

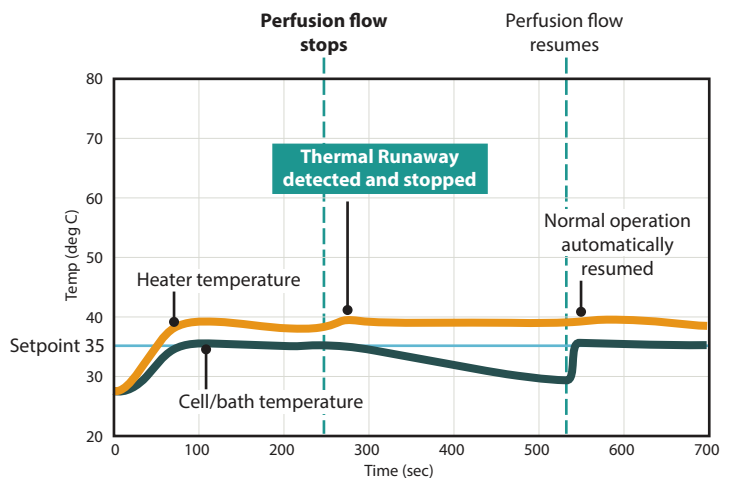
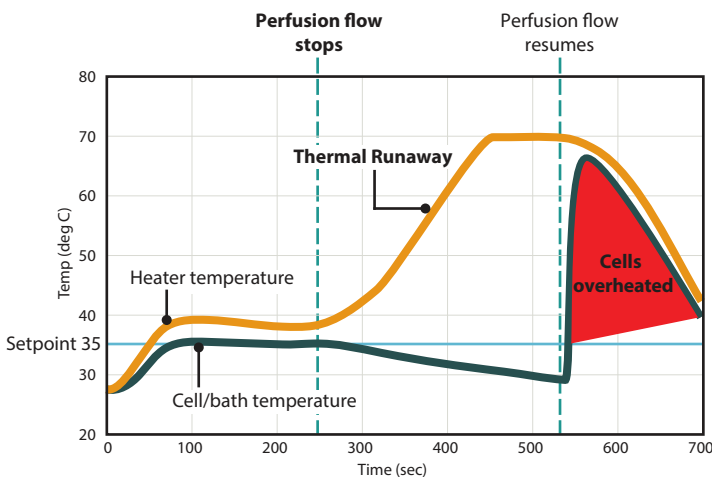
**AutoMate Scientific  
ThermoClamp®-3 controller**

**Other temperature controllers**

**Thermal Runaway when the bath sensor falls out or you change coverslips or dishes:**



**Thermal Runaway when perfusion flow stops:**



[www.autom8.com](http://www.autom8.com)

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**Science Products GmbH**

Hofheimer Straße 63  
D- 65719 Hofheim  
Phone: +49 6192 90 13 96  
Fax: +49 6192 90 13 98

Email: [info@science-products.com](mailto:info@science-products.com)

+48 12 363 80 52

+43 7207 7 54 55



in collaboration with:

**Science Products Trading SPT AG**

Käferholzstr. 142  
CH- 4058 Basel



Phone +41 43 488 05 61  
Fax: +41 43 488 05 62