

Do these temperature-related issues impair your HPLC process?

- Inaccurate and inconsistent temperature readings from system to system and lab to lab?
- Inaccurate quantitation due to system temperature fluctuations?
- Difficulty programming multiple column heaters to different set points?

Precise HPLC column temperature control for accurate quantitation and reproducibility.

The Waters® programmable Temperature Control System maintains liquid chromatography columns at consistent temperatures— from a few degrees above ambient to 150 °C.

The system consists of the easy-to-operate Temperature Control Module II and the Column Heater Module. The Column Heater Module can hold as many as four HPLC/GPC columns. The control module can independently control as many as three Column Heater Modules, each of which can be programmed to a different temperature set point.

The Waters Temperature Control System plays a critical role in GPC analyses, amino acid analysis and high-speed separations where slight variations in temperature may adversely affect accurate quantitation or reproducibility. The system can also be used in post-column reaction configurations if the post-column reaction requires elevated temperatures.



Waters Temperature Control System.

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Improved temperature accuracy, reliability and reproducibility.

The Waters Temperature Control System operates by true proportional heating. It uses the high gain response of on/off heaters to rapidly elevate temperatures to within 0.5 °C of the set point. The Temperature Control Module II maintains temperature stability to 0.1 °C with a set point feedback integration function that virtually eliminates the typical variation between set point and measured temperature. The Temperature Control Module II continuously adjusts its duty cycle to maintain set point temperature accuracy while avoiding the "over-shooting" and "under-shooting" typical of conventional temperature controllers.

Easy to operate.

The Column Heater Module can house up to four columns with lengths to 30 centimeters or one column with a Waters Ninhydrin reaction coil. Up to three columns may be used with one Waters RXN 1000 reaction coil. The Temperature Control Module II can simultaneously and independently control one, two or three Column Heater Modules. The measured temperatures of each Column Heater Module are displayed on the front panel. Temperature set points and upper/lower temperature limits for each Column Heater Module are programmed on the front panel and quickly accessed by a single keystroke. The Waters Temperature Control System can also be controlled through Empower™ or Millennium®32 software.

Ordering Information

Description	Part Number
Temperature Control System, 100V-240V, 50/60 Hz Includes one Column Heater Module and the Temperature Control Module II (which can independently control three Column Heater Modules)	WAT038039
Column Heater Module	WAT038040

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