

### Mobile Phase Degasser

Dissolved oxygen can cause flow rate instability and increased baseline noise. Also, it has a quenching effect on fluorescence detection and increases the background of UV detectors. Dissolved gases can out-gas in the LC system, forming bubbles in check valves, at connections, or in detector flow cells.

In-line vacuum degassing is more effective at removing dissolved gas from mobile phases than sonication or helium sparging. In-line degassers work by withdrawing gas across a gas-permeable membrane encased in a sealed chamber. Traditionally, the membrane has been made of PTFE tubing, but the Degasys Ultimate Degasser uses tubing composed of an amorphous fluoropolymer (AF) that is 200 to 300 times more gas permeable than PTFE. This translates into the ability to use shorter tubing for removing dissolved gas. This new material also has better tubular burst strength than PTFE. To prevent cross contamination, each channel on this Degasys unit is individually encased within its own vacuum chamber.



25189

**Specifications:**

Residual Oxygen <sup>1</sup>	0.9 ppm
Pressure Loss <sup>1</sup>	0.24 psi (1.65 kPa)
Internal Volume	500 µL

Wetted Parts	AF, PTFE, ETFE, PPS
Max Flow Rate	7 mL/min/channel

<sup>1</sup> At a flow rate of 1 mL/min

Description	Voltage	qty.	cat.#
Mobile Phase Degasser (4 Channel, 7 mL/min/channel)	110V	ea.	25189
Mobile Phase Degasser (4 Channel, 7 mL/min/channel)	220V	ea.	25194

To prevent system damage, do not use the Degasys system with solutions containing TFA at concentrations greater than 5%.



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CE

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### Sidewinder LC Column Heater

- Easy to set up!
- Operation range: 5 °C above ambient to 85 °C,  $\pm 1$  °C.
- Lightweight, compact design fits in small spaces.
- Column holder can be placed in any orientation.

This unique design completely encloses any LC analytical column up to 25 cm in length. Two lengths of heater jackets are available: the short column holder accommodates columns up to 10 cm in length, while the long column holder holds columns up to 25 cm in length. The control module provides optimum heating performance, accuracy to within 1 °C, and stability to within 0.1 °C. The new Sidewinder controller has fast 10 Hz sampling for improved responsiveness. The RS232 control allows external programming.

Description	Length	qty.	cat.#
Temperature Control Module and Column Holder	Long (25 cm)	ea.	26516
Temperature Control Module and Column Holder	Short (10 cm)	ea.	26517



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CE

### Sidewinder LC Heater/Cooler Temperature Control Module and Column Holder

- Operation range: 5–55 °C,  $\pm 0.2$  °C.
- Ability to program multiple temperature points.
- Accommodates columns up to 30 cm in length and 7.8 mm ID.
- Compact design.

The Sidewinder heater/cooler unit has a doubly insulated cover to maintain the programmed temperature to within 0.2 °C. The 24 V control unit provides maximum stability and rapid equilibration times. RS232 control allows external programming.

Description	qty.	cat.#
Sidewinder Heater/Cooler Temperature Control Module and Column Holder	ea.	26518

All Sidewinder temperature control products carry the globally recognized CE mark. Each unit meets the demanding electromagnetic emission standards of the new European Union Directives, United States standards, and Canadian standards.

**Power requirements:** All Sidewinder heater and heater/cooler units utilize a 24 VDC input to energize the system. This voltage is generated from a universal power supply included with each Sidewinder unit. Also included with each Sidewinder unit is a power cable (also known as a mains cable) for use in the U.S. The power cable supplies current from a wall or bench receptacle to the provided universal 24 VDC universal power supply.

**FOR USE OUTSIDE THE U.S.** If the Sidewinder unit is intended for use outside the U.S., an appropriate power cable must be purchased separately (not available from Restek).