

TL-600 Mobile Phase Pre-Heater

Focusing on solutions to meet your needs.

Timberline Instruments

1880 S. Flatiron Ct., Unit G

Boulder, CO 80301

800-777-5996

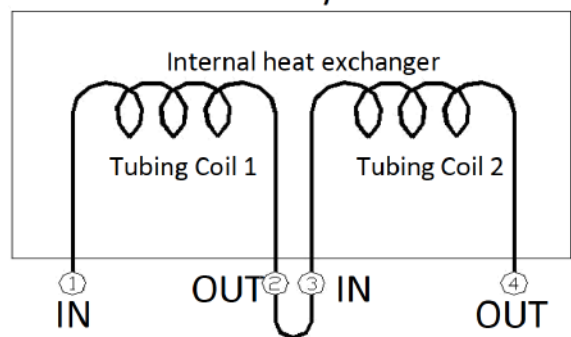
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Overview

The Timberline Mobile Phase Heaters are used to heat the mobile phase before it enters a semi-preparative or preparative HPLC column. The advantages of operating at elevated column temperatures are plentiful. It has been shown that lowering mobile phase viscosity by operating at elevated temperatures can enhance column efficiency. Controlling column temperature improves retention time reproducibility for individual sample components. Achieving higher column efficiencies and maintaining retention time stability results in higher yields for preparative HPLC systems.

Two Coil System



(Mobile Phase Inlet)

(To Column)

Electronics

The electronics for temperature control are housed in a separate case, away from the heated block, to ensure years of trouble free operations. The control unit displays the actual temperature and the set point. This calibrated temperature controller keeps temperature of coils within $\pm 0.1^\circ\text{C}$ of the set point. The control unit will shut power off to heaters if temperature exceeds fuse rating, protecting the laboratory and column from excessive temperatures.

Description

Specifications

Temperature Range	Ambient $+5^\circ\text{C}$ to 90°C
Temperature Stability	$\pm 0.1^\circ\text{C}$
Heater Case Dimensions	5.25"H X 8.625W X 13.5"D
Controller Case Dimensions	3.25"H X 8"W X 8.625"D
Tubing Coil Length	Application dependent
Tubing Material	316 SS or Hastelloy
Operating Voltage	120VAC or 240VAC

Each mobile phase heater is custom made to accommodate the customer's flow rate range and temperature requirements without excess holdup volume. The TL-600 can be designed for mobile phase flow rates as high as 100mL/min and temperatures up to 90°C . For higher flow rates, Timberline offers a TL-2500 Mobile Phase Heater. The heating unit consists of two lengths of tubing cast into a solid metal block. One coil can be used to heat lower flow rates while two coils can be connected in series for increased heating capacity. The metal block provides excellent temperature stability and efficient heat transfer. The tubing is coiled in a proprietary pattern that minimized the size and weight of the unit and reduces band broadening.

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To order, complete the part number with the information below:

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Temperature Material	Voltage	Maximum Flow Rate	Maximum Operating Temperature
0 = 316 Stainless Steel 2 = Hastelloy	1 = 120VAC 2 = 240VAC	1 = 10 ml/min 2 = 20 ml/min 3 = 30 ml/min 4 = 40 ml/min 5 = 50 ml/min 6 = 60 ml/min 7 = 70 ml/min 8 = 80 ml/min 9 = 90 ml/min 0 = 100 ml/min	4 = 40°C 5 = 50°C 6 = 60°C 7 = 70°C 8 = 80°C 9 = 90°C

For applications requiring a higher flow rate, please inquire about our TL-2500 Mobile Phase Pre-Heater.

