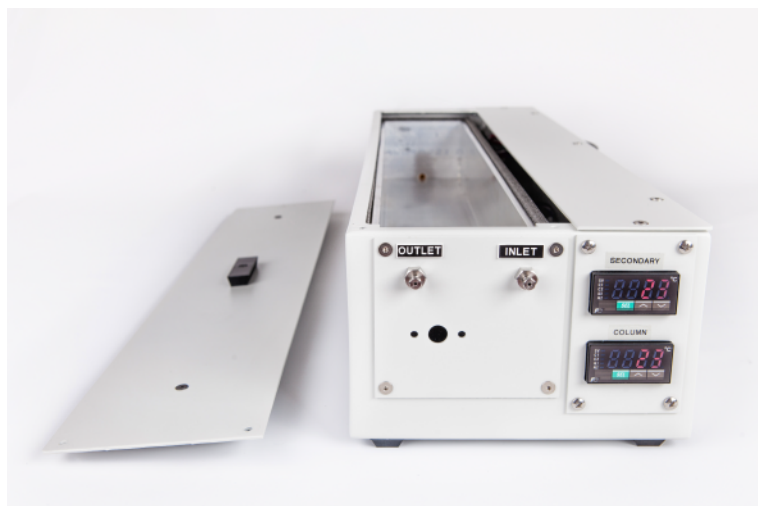


# TL-105-D Column Heater

Focusing on solutions to meet your needs.

Timberline Instruments  
 1880 S. Flatiron Ct., Unit G  
 Boulder, CO 80301  
 800-777-5996  
[info@timberlineinstruments.com](mailto:info@timberlineinstruments.com)



Description	Specifications
Temperature Range	Ambient +5°C to 100°C
Temperature Stability	±0.1°C
Heater Case Dimensions	5.0"H X 8.0"W X 25.5"L
Controller Case Dimensions	3.25"H X 17"L X 8.625"H
Tubing Coil Length	Application dependent
Tubing Material	316 SS or Hastelloy
Operating Voltage	120VAC

## Features and Benefits

- Independent temperature control of the column and mobile phase.
- Built-in heat exchanger preheats the mobile phase reducing temperature gradients
- Extra-large heated cavity accommodates multiple analytical or semi-preparative columns
- Accommodates either an internal or external injection valve
- Easy access to heated cavity

Description	Catalog Number
TL-105-D, 316 Stainless Steel, 120 VAC	2115-D-1
TL-105-D, 316 Stainless Steel, 240 VAC	2115-D-2
TL-105-D, Hastelloy, 120 VAC	2115-D-H-1
TL-105-D, Hastelloy, 240 VAC	2115-D-H-2

Microprocessor controlled heating provides stable and accurate temperature control, reproducible retention times and stable baselines for temperature sensitive detectors such as refractometers, electrochemical, and conductivity. Increasing column temperatures reduces peak tailing due to surface silanol interactions, improves efficiency, reduces backpressure and prevents column contamination.

Timberline's Model TL-105-D Column heater with integral mobile phase pre-heater is used in semipreparative HPLC applications where it is desirable to have independent temperature control of both the column and mobile phase or for applications where flow rate requirements exceed the specifications of the standard TL-105 column heaters.

The TL-105 D benchtop column heaters utilize our proprietary heat exchanger technology which reduces temperature gradients within the column, improving chromatographic efficiency. Each TL-105-D is custom made to accommodate the customer's flow rate and temperature requirements without excess holdup volume. The TL-105-D can be designed for flow rates as high as 50ml/min and temperatures up to 90°C. The tubing is coiled in a proprietary pattern that minimizes 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:

2115 - D - - -

