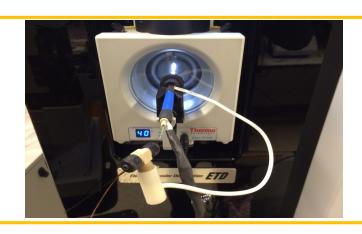
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Column Heater for Easy-Spray source

Use any of your favorite columns!



- •Pack your own columns or use any fused silica capillary column with an integrated spray emitter.
- •The high voltage for nanospray comes from the source and is applied through a liquid junction - Supply your own Tee or stainless steel union or purchase as a set.

PST-ESR- xx, xx=10-25 cm

PST-ESR-xxB, xx=26-50 cm, bendable

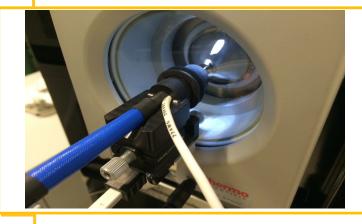
PST-ESR-xxT with a PEEK Tee liquid junction

PST-ESR-xxU with a uPLC-compatible metal union

PST-ESRxx-RU heater with a reducing metal union compatible with NanoViper® fittings.- a trademarked product of Thermofisher.

PST-ES Adaptor insert for a spray emitter without heater. Optional -T, -U and -RU

- •Plug-and-Play directly into the Easy-Spray source and is supported by the trap-column bracket on the source.
- •Temperature is controlled by the Easy-Spray source with the same precision as that of the OEM Easy-Spray columns.
- Simple, flexible and low-cost







We thank Toni Koller of Columbia University for helping with the development of PST-ESR and allowing us to use these pictures.

Butterfly Portfolio Heater for nanoLC-MS

Heats analytical column, vented trap column, filter, fittings, transfer lines, spray tip, >50 cm long columns...

PST-BPH-xx, xx=15, 20 cm x 4 cm Other dimensions available



PST-BPH-xx xx=10-30 cm Needs a column heater controller, PST-CHC or PST-CHC-RC



PST-BCH-xx, xx=15, 30 cm For PEEKsil capillary columns with end fittings



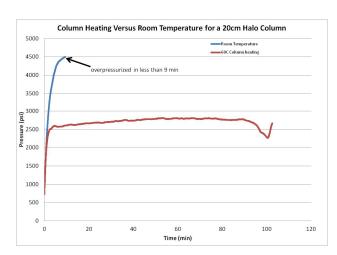
Phoenix S&T

NanoLC Column Heater and Temperature Controller

- Improve reproducibility, mass transfer and dramatically reduce run pressures and carry-overs.
- Designed specifically for nano/microspray applications to increase resolution and throughput.
- Temperature range between ambient and 100 ° C, with stability control to 0.2 ° C
- Lengths available between 6 to 25 cm for most styles. Specify when ordering. Inquire about custom lengths.

Model numbers:

- NEW! PST-ESR-xx Column heater for the Easy-Spray ® source. Use your own columns! xx=12-25 cm; xxU= with liquid junction union, xxT=with liquid junction Tee.
- "Butterfly" Portfolio Heater Our most versatile heater, available as 20 cm x 4 cm and 15 cm x 4 cm heaters. For other dimensions, please inquire.
- PST-BCH heater with 0.5" diameter for a commercial PEEKsil column with end fittings. Can be inserted into the CaptiveSpray™ source.
- · PST-CH-xxU: our popular "pencil" heater for bare fused silica
- PST-CH-xxUB: Bendable "pencil" heater, xx= 15-50 cm
- PST-CHC column heater controller
- PST-CHC-RC: Column heater controller with contact closure-controlled (LC or MS) switching between two temperatures. Controller has decimal point read out.



Acknowledgment: We thank Stephen Master, MD, PhD, Assistant Professor of Pathology at the University of Pennsylvania School of Medicine for the permission to publish this data.





PST-ESR – compatible with the Thermo Easy-Spray source. Pack your own columns!



PST-CHC-RC:

- •Run an analysis at around room temperature, but rinse the column at a higher temperature to eliminate carry-over.
- •Run at a low temperature for the first part of a gradient to maximize coverage of hydrophilic peptides, and switch to a higher temperature at the last part of the gradient for better coverage and peak shapes of hydrophobic peptides.
- •Remote shut-down of the column heater at the end of all the analyses.

