NEW FROM VICI

MULTICHANNEL FAST TEMPERATURE PROGRAMMER

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- Up to four independently programmable zones with eight states of rapid heating and cooling
- For use with nickel-wire-wrapped resistively-heated columns
- User friendly interface and control/monitor program on Windows

The VICI FTP-200 has up to four channels, with multiple temperature inputs for unparalleled precision heating at ramp rates up to 2,000°C/minute. Independently heat four GC components using up to eight temperature states, eliminating the need for a conventional oven and making portable GC possible at lower cost. With 10X faster data point collection, the FTP-200 will boost your lab efficiency—complex analyses are performed in seconds.

COLUMN/FAN MODULES

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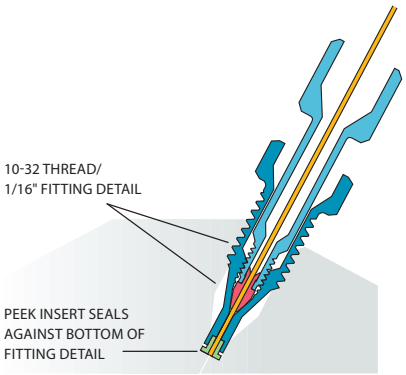
- For use with our FTP-200 multichannel temperature programmer
- Includes column, fan, transfer lines, sensors, and connections in one unit
- Wide selection of column types, sizes, and phases
- Choice of high-flow fans for fast cooling
- Resistively-heated transfer lines with a low mass 40 gauge "K" thermocouple



DIRECT-CONNECT FITTING – 360 µm FUSED SILICA TUBING TO 1/16" FITTING DETAIL

- Fingertight to 25,000 psi
- Eliminates dead volume present in competing designs
- For use in valves with port size of 150 microns or smaller

Our new fitting connects a 360 µm FS tube directly into a 1/16" fitting detail, with the bore of the FS tube precisely aligning with the bore of the valve. To ensure zero dead volume, the FS tube end must be prepped with the tools in the kit below. Call for more information.

FUSED SILICA TUBE END PREP KIT

- Produces square cut, polished tube end
- Eliminates dead volume caused by the high point left by typical FS tubing cuts
- Clean flow path—particulates are removed with pressurized food-grade CO_2

Normal methods of cutting fused silica leave a high spot, sabotaging efforts to minimize dead volume with fittings that make up on the face of the tube (like the direct connect fitting above). This kit includes everything needed for a simple lapping procedure which polishes the burred end into a clean, perfectly square-cut surface. Call for more information.

THERMAL CONDUCTIVITY DETECTOR

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- Now with serial control or user-friendly interface and control/monitor program on Windows
- Digital auto-zero feature
- Enhanced thermal stability
- Smaller, compact controller housing

Like our venerable TCD-2, our new TCD-3 is a dual filament unit consisting of the detector housing and separate controller. However, the analog controls of the TCD-2 are replaced with full digital control implemented via a user interface or command console commands. Thermal stability is maintained in the detector to within 0.010°C, producing a stable, low-noise signal.

THERMAL CONDUCTIVITY DETECTOR – TCD-3
Detector housing and controller

WORLD'S FIRST TRUE NANO HPLC

- Operation to 1500 bar (22,000 psi)
- Includes everything but the detector
- 360 micron fittings and tubing throughout for higher efficiency
- Flow rates down to 1 nl/minute for low mobile phase consumption
- Sample volume as low as 5 nl
- No long transfer lines to detector

The integrated nanopump/injector comprises an entire chromatographic system in a small footprint weighing a few pounds. With true nanoscale 360 µm fittings and extremely low flow rates, this system provides split-free injections as close to the detector as possible.

The 360 µm fittings allow use of higher efficiency columns, packed with smaller particles for an orders-of-magnitude increase in theoretical plate height.

The nanopump can be employed in a variety of other single and multipump configurations, isocratic or gradient, with or without integrated injector and selector valves. The gradient version features integral pressure transducers to monitor and adjust for the differing compressibility of the two solvents.

Call us to discuss your requirements.

INTEGRATED NANOPUMP/INJECTOR

PUMP SPECIFICATIONS

Maximum pressure	Up to 1500 bar
Maximum capacity*	35 µl
Minimum flow rate	1 nl/min
Flow rate resolution	340 steps/µl

*Maximum capacity of smallest model.
Higher capacity models available.