

SFT-ULTRA HP

**SFT-Ultra High Pressure Pump (18,000 psi)
For High Throughput HPLC and Column Packing**



SFT-Column Packing Pump



SFT-Analytical Pump

STANDARD FEATURES & OPTIONS

- Stainless Steel fluid path
- Dual pump heads, cam-driven with single stepper motor drive
- AutoPrime™ one button toggles flow rate to maximum for rapid solvent change
- Front keypad control LCD display with (pressure, flow, set points, etc.) Analytical
- Front keypad control, w/LED display (pressure, flow, set points, etc.) CP
- Advanced solvent recompression algorithms in analytical pump
- Electronic pressure transducer
- Outlet filter (bulkhead mount)
- Quick Set software for CP pump
- Available in Kit-Form for OEM applications

SPECIFICATIONS

Flow rates	0.001 - 12.000 ml/min Constant Pressure 0.001 – 5.000 ml/min Analytical
Pressure	18,000 psi
Pulsation	+/- .75% from 3000 -18,000 psi
Pressure Accuracy	+/- 2% of full scale pressure
Flow Accuracy	< +/- 1% at 1ml/min 10,000 psi with Methanol
Flow Precision	0.5% RSD on >30 sec. average flows
Dimensions	5.5" high x 10.375" wide x 17.5" deep
Weight	30 lbs

Supercritical Fluid Techs Inc

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The **SFT-Ultra High Pressure Digital Pump** has been specifically designed for Analytical to high speed, high resolution Chromatography applications, in addition a constant pressure version has been developed to allow packing of particle in the 1 micron to 10 micron range. The analytical unit provides flow rates from 0.001 to 5.000 ml/min, with flow settings in 1 μ l increments (18,000 psi.) The Packing pump has flow range settings from 0.001 to 12ml/min with flow controlled by the pressure setting. Pulse-free flow in the analytical pump is guaranteed by using advanced solvent recompression algorithms and automatic pressure compensation which provides unmatched performance for the most demanding applications.

The **SFT-Ultra HP** drive offers a linear cam and pressure compensation to provide accurate flow in the most demanding chromatography applications at normal HPLC pressures all the way to 18,000 psi.

The use of modern digital stepper motor technology and high performance mechanical design provide accurate flow rates and pressures over the entire performance range. In addition, all SFT pumps come with a 1-year warranty.

Standard controls include **RS-232** serial communication port (for complete control and pump status monitoring) and **Run/Stop** inputs. Also standard are remote **frequency** & remote **voltage controls** and real-time pressure monitoring with user selected high and low pressure limits. The **SFT-Ultra HP** column packing pump comes with Quick set software for unmatched control of the packing process.

The **SFT-Ultra HP Digital Pump** is offered as a freestanding unit or in kit-form for OEM applications.

STANDARD CONTROLS & OPTIONS

- RS-232 Serial Com Port for Complete Control & Status Monitoring
- Run/stop Inputs (5 volt TTL type)
- Remote 0 - 10 volt & remote 0 – 10 kHz Flow Rate Control Input
- Pressure monitoring (via transducer) with user selected upper/lower pressure limits
- Process Control Option:
 - Constant Flow: User selectable flow rate set point.
Flow accuracy maintained across the pressure range.
 - Constant Pressure: User selectable pressure set point.
Pump flow rate auto-adjusts to maintain pressure.

Part Numbers

U05SNX01	SFT-Analytical Ultra High Pressure Pump
F05SNXP1-SP1	SFT-Constant Pressure Ultra High Pressure Pump

Request Quote for all kits

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