

# Ultra - HP

## Ultra High Pressure Pump (18,000psi) For High Throughput High Resolution HPLC



*Analytical Pump*

- **Pressure capability to 18,000psi**
- **Dual head design for accurate flow rate & low pulsation**
- **User settable upper and lower pressure limits**
- **Pulse Dampener**
- **Self Flush Mechanism**
- **Includes 3 year warranty!**

### **Designed for High Speed, High Resolution Chromatography**

The Ultra High Pressure Digital Pump has been specifically designed for Analytical to high speed, high resolution Chromatography applications. This unit provides flow rates from 0.001 to 5.000 ml/min, with flow settings in 1  $\mu$ L increments (18,000 psi. Pulse-free flow is guaranteed by using advanced solvent recompression algorithms and automatic pressure compensation which provides unmatched performance for the most demanding applications.

The 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 18,000psi.

The use of modern digital stepper motor technology and high performance mechanical design provide accurate flow rates and pressures over the entire performance range.

Standard controls include RS-232 serial communication port (for complete control and pump status monitoring) and Run/Stop inputs. Also standard is real-time pressure monitoring with user selected high and low pressure limits.

### **Reduced maintenance**

Seal life is dramatically extended by actively flushing the back of the primary seal with a flushing solution. The result is less down-time and reduced operating expenses. The self-flush is automatic; just change the flushing fluid weekly. Seals can be changed in five minutes without tools.

## **Chrom Tech, Inc.**

*“your chromatography specialists”*

P.O. Box 240248, Apple Valley, MN 55124  
800/822-5242 in MN 952/431-6000 • 952/431-6345 fax  
email: sales@chromtech.com • www.chromtech.com

# Ultra High Pressure Pump



*Analytical Pump*

## Ultra High Pressure Pump Specifications:

- Flow Rates:** 0.001-5.000mL/min Analytical
- Pressure:** 18,000 psi
- Pulsation:**  $\pm$ .75% from 3,000-18,000 psi
- Pressure Accuracy:**  $\pm$ 2% of full scale pressure
- Flow Accuracy:**  $<$  $\pm$ 1% at 1mL/min 10,000 psi with Methanol
- Flow rate precision:** 0.5% RSD on  $>$ 30 second average flows
- Dimensions:** 5.5" (H) x 10.375" (W) x 17.5" (D)
- Weight:** 30 lbs.
- Remote control:** RS-232, start/stop

## Ultra High Pressure Pump Features

- 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
- Electronic pressure transducer
- Outlet Filter
- Front keypad control LCD display with pressure and flow set points
- Advanced solvent recompression algorithms

## Ultra High Pressure Pump Ordering Information

Cat. No.	Description
P-UHP	Analytical Ultra High Pressure Pump

**Chrom Tech, Inc.**

*"your chromatography specialists"*

P.O. Box 240248, Apple Valley, MN 55124  
800/822-5242 in MN 952/431-6000 • 952/431-6345 fax  
email: sales@chromtech.com • www.chromtech.com