

Pumps: Column Packing System



*Complete column-packing system — Plug in and go!
Plus: Free software for optional PC control!*

Chrom Tech now offers a full line of electric dual-head, constant pressure pumps for a wide range of column packing applications. These pumps offer the complete range of control and pressure options for packing new small particles (1-micron–10-micron) and soft, pressure sensitive polymeric materials. Packing process advantages include:

- **18,000 psi max pressure capability**
- **Increased plate counts by up to 20%**
- **Higher yields**
- **The ability to pack ultra-small particles with constant bed density**
- **Control of pressure to effectively pack soft polymeric materials**
- **Full PC control with software (included)**
—save methods, pressure/flow control, monitor & save pressure flow/data

Model CP Pack-in-a-Box System Includes:

- Constant Pressure Pump: P-1524CP
—Constant pressure pump, non-flush, .1–24 mL/min., 10,000 psi, with transducer & RS-232 control, SS
- 2 Empty column assemblies
—4.6 x 150 mm w/2 μm frits
- Column Packer assembly (20 mL reservoir, nuts, caps, ferrules, column adapter 5/16" 4.6 mm, gasket, tubing)

Ultra High Pressure Pack-in-a-Box System Includes:

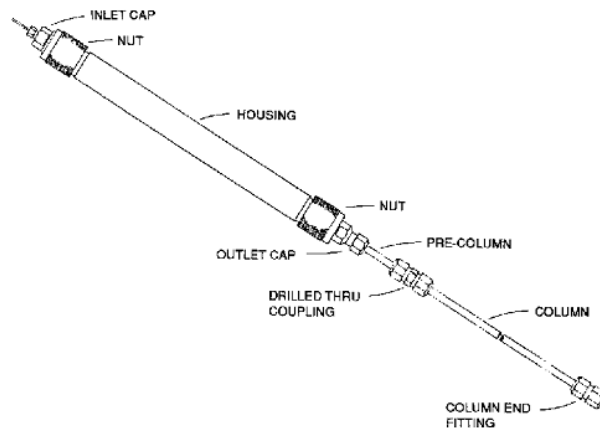
- Ultra high pressure constant pressure pump: P-UHP-CP
—UHP constant pressure pump, non-flush, .1–24mL/min., 18,000 psi, with transducer and RS-232 control, SS
- 2 Empty column assemblies: 2.1mm x 150mm
- 2.1mm pre-column assembly with packing adapter for 2.1mm columns
- 10mL packing reservoir assembly with inlet & outlet caps attached

Both Systems Also Include:

- Packer Bracket Assembly (bracket, rods, bolts, knobs, nuts)
- C18 packing, 10 g (Adsorbosphere or equivalent).
- Set of tubing to connect the system for use
- Set of RS 232 cables to connect the pump to the computer
- Quick-Set pump control software
- Step by step instructions for set up and packing a column

Pack in a Box Ordering Information

Cat. No.	Description
P-1524-PIAB	Model CP Pack in a Box System
P-UHP-CP-PIAB	Ultra HP CP Pack in a Box System



Reservoirs of 20, 40, and 80mL are available with connections for 1/4" outside diameter columns. Adapters are available to accommodate special end fittings.

Chrom Tech's column packing reservoir system is specifically designed to provide fast, versatile, safe packing of efficient, reproducible columns. An internal baffle prevents the inlet flow stream from impinging directly on the slurry in the reservoir. A conical outlet section promotes smooth transfer of the slurry to the column. The quick-changed threaded reservoir closures help avoid slurry-settling problems and promote more reproducible packings.

The modular design allows fast interchange of reservoir housings and column connectors. Knurled closure nuts and Kalrez® seals combine to allow fast, leak-tight changes to be made by hand — no tools required. The column couplings are drilled to allow direct contact of the column to a pre-column of the same diameter. This allows the columns to be removed without disturbing the packing bed.

The system is designed for working pressures of 15,000 psi (1034 bar). The threaded reservoir closures avoid the potential hazards of large compression fittings in high-pressure applications.

A complete system requires one inlet cap, two knurled closure nuts, one reservoir, one outlet cap, and one drilled-through coupling.

Column Packing Assembly Ordering Information

Cat. No.	Description
010241	Inlet cap (with nut, ferrule, and o-ring seal) for 1/16" OD inlet tubing
010242	Inlet cap (with nut, ferrule, and -ring seal) for 1/4" ID inlet tubing
011185	Knurled closure nuts, each (2 required)
011191	Reservoir, 20mL capacity
011192	Reservoir, 40mL capacity
011193	Reservoir, 80mL capacity
010228	Outlet cap (with CPI nut, ferrule, and o-ring seal) for 1/4" column OD
010122	Drilled-through coupling, 1/4"

Replacement Column Assemblies:

150026	Column assembly, 2.1 x 150mm, 2μm
150027	Column assembly, 2.1 x 250mm, 2μm
150034	Column assembly, 4.6 x 150mm, 2μm
150035	Column assembly, 4.6 x 250mm, 2μm

For other column dimensions, contact Chrom Tech technical support, 800/822-5242.

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