

UHP Pack In A Box System

Ultra-High Pressure Column Packing System

*Complete System Makes
Column Packing Easy.
For Pressures up to 18,000 psi.*



Everything You Need To Start Packing Columns

Scientific Systems now offers a complete Ultra-High Pressure column packing system based on an electric dual-head, constant pressure pump for small particle sizes. The Pack in A Box System offers everything required to start packing columns. System 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 consistent bed density
- Full PC control with software (included): save methods, pressure/flow control, monitor & save pressure/flow data
- All required hardware to pack columns

Ultra CP Constant Pressure Pump

- Conventional Electric Pump (110-Volt or 220-volt input)
- Constant Pressure control mode for column packing applications
- Dual pump heads, cam-driven with single stepper motor drive
- 0.01 – 12.00 mL/min Flow Rates
- 18,000 p.s.i. upper pressure limit (across the flow range)
- Front keypad control, w/LED display (pressure, flow, set points, etc.)
- RS-232 Serial com port for PC interface
- User Controls & Set-Ups
 - Set Desired Pressure (pump flow rate automatically adjusts)
 - Set Ramp Rate (adjusts rate of change in auto-flow adjustment)
 - Set Upper Flow Rate Limit
- PC control software included: Develop & save methods, control flow & pressure via RS-232, monitor & save packing process data

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The 10 mL Reservoir includes all required fittings and a pre-column for the 2.1mm x 1.5cm columns.

Column Packing Reservoir

Included in the Pack in a Box is SSI's Column Packing Reservoir System 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.

Complete Pack In A Box System Includes:

- Model Ultra CP Constant Pressure Pump
0.01 – 12.0 ml/min; 18,000 p.s.i.; with transducer and RS-232 control, Stainless Steel; non-flushing pump heads; 110/220 Volt
- 10 ml packing reservoir assembly with inlet & outlet caps attached
- 2.1 mm pre-column assembly with packing adapter for 2.1 mm columns
- Two (2) 2.1mm x 150mm columns
- 10 gm bottle of C18 packing
- Column packer bracket assembly to mount Packer to the pump
- Quick Set Disk to allow full control of the packing process through a computer
- Set of step by step instructions for set up and packing a column
- Set of tubing to connect the system for use
- Set of RS 232 cables to connect the pump to the computer

Ordering Information

DESCRIPTION	PART No.
PACK IN A BOX HIGH PRESSURE COLUMN PACKING SYSTEM w/ Model Ultra CP Constant Pressure Pump, 0.01 - 12 mL/min, 18,000 psi	150053