

Pack In A Box Packing System

LabAlliance now offers a complete High Pressure column packing system based on a 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:

- 10,000 p.s.i. 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 – 24.00
- 10,000 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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UHP Column Packing System



A 20ml Reservoir with all required fittings and pre-column for the 2.1mm X 15cm columns is included

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.

Part Number and system contents

Part number	Description
150050	Complete High Pressure Pack in a Box System Includes Items Below:
Quantity	Description
1	Model CP Constant Pressure Pump; 0.01 – 24.0 ml/min; 10,000 p.s.i.; with transducer and RS-232 control; Stainless Steel; non-flushing pump heads; 110/220 Volt
1	20 ml packing reservoir assembly with inlet & outlet caps attached
1	4.6 mm pre-column assembly with packing adapter for 4.6 mm columns
2	4.6 mm X 150mm columns
1	10 gm bottle of C18 packing
1	Column packer bracket assembly to mount Packer to the pump
1	Quick Set Disk to allow full control of the packing process through a computer
1	Set of step by step instructions for set up and packing a column
1	Set of tubing to connect the system for use
1	Set of RS 232 cables to connect the pump to the computer



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