Waters™ PrepLC 4000 Preparative Chromatography System

94-0346

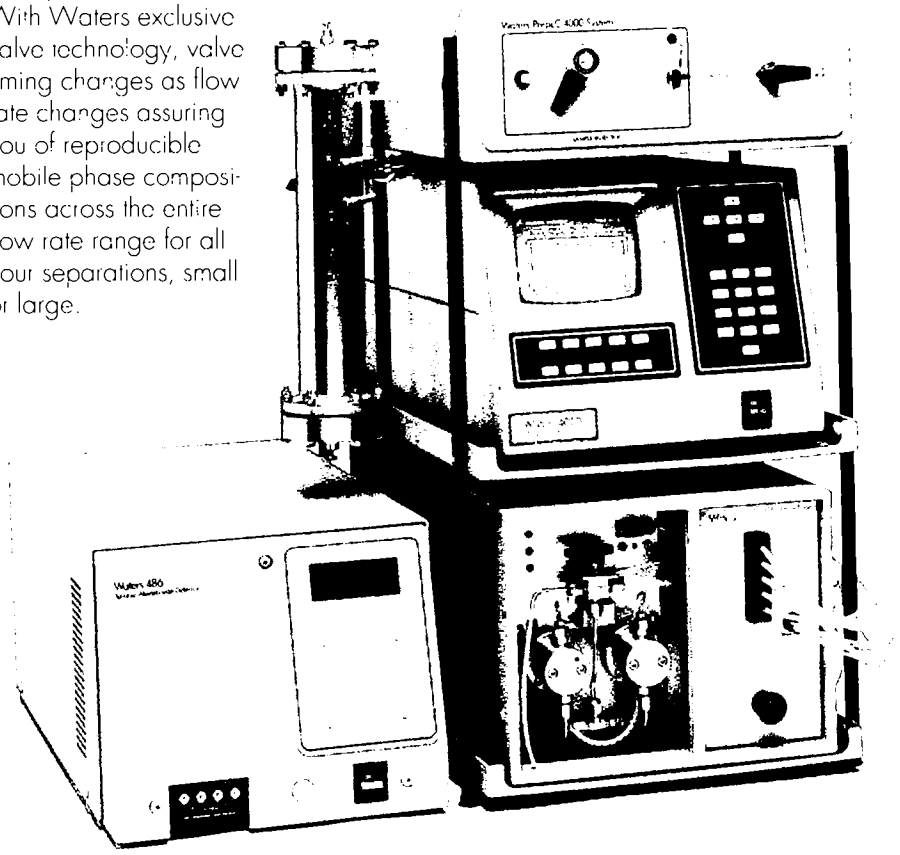
Product Bulletin

Routine isolation of natural, organic synthetic, or biochemical products.

Waters PrepLC 4000 Preparative Chromatography System combines milligram to multigram high-resolution isolation capability with the best price/performance ratio of any preparative HPLC system. The PrepLC 4000 System is ideal for routinely isolating natural, organic synthetic, or biochemical products. You can automate your purification protocol by programming the system to repetitively perform all isolation tasks from sample loading to purification to column clean-up.

Flexibility.

- Flow rates from 0.5 ml/min up to 150 ml/min. With Waters exclusive valve technology, valve timing changes as flow rate changes assuring you of reproducible mobile phase compositions across the entire flow rate range for all your separations, small or large.
- Change column size from 3.9 mm I.D. to 50 mm I.D. and larger. 4000 psi backpressure capability across the entire flow rate range allows you to use column packings in a wide range of particle diameters: from 5µm on up. In addition, tubing can be easily interchanged to tailor the fluid path for any separation scale.
- Change solvent conditions. Perform isocratic or multi-solvent (up to four solvents) gradient separations and pick from among 11 preprogrammed gradient curves.



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Automated system control.

- Set up operating parameters, edit and create gradient and timed event methods from a single keyboard.
- Total system integration through Powerline™ control of the pumping system, external events and UV detector.
- Complete method documentation using Waters 746 Data Module or Maxima 825 Chromatography Workstation.

Versatile fluid handling.

- Four automated solvent inlets, one manual solvent inlet.
- Convenient, automated sample injection for large sample volumes.
- Flow rate range accommodates a wide range of column sizes.
- Automated seal wash maximizes seal life.

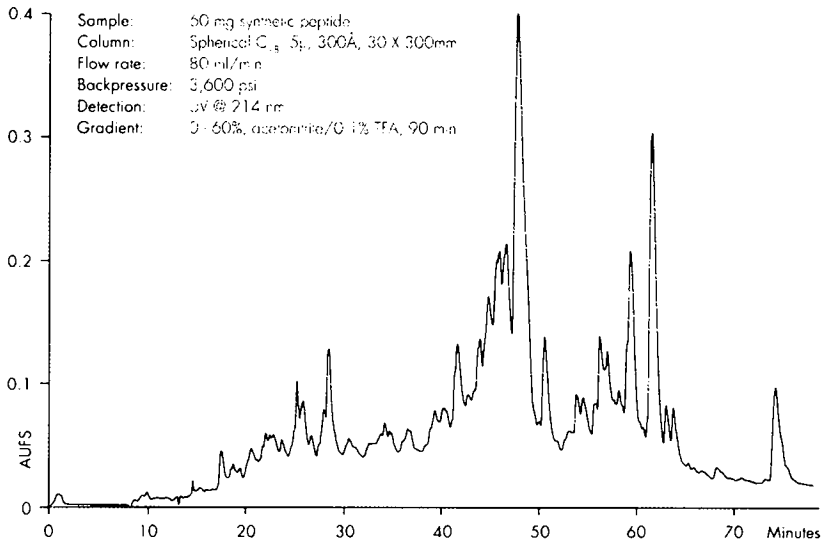
Manual Loop Injector.

- Convenient manual injector for making single injections when developing methods or checking the purity of preparative fractions.

Variety of Columns.

In addition to stainless steel and glass columns, pre-packed PrepPak® cartridges are available in a variety of sizes and chemistries. A PrepPak 1000 Module is required to use PrepPak cartridges.

High-Resolution Synthetic Peptide Purification



Obtain the highest resolution possible by using 5µm particles packed in preparative columns.

Specifications

Dimensions:	29" L x 14" W x 22" H
Power:	110 or 220V AC
Temperatures:	Operating: 4° - 40°C
	Storage: 0° - 50°C
Maximum pressure:	4000psi (0.5 - 150 ml/min)
Wetted surfaces:	316 stainless steel, Teflon , sapphire, ruby
Seal material:	Filled PTFE
External events:	
Outputs:	4 event out (+ 12V or ground)
	1 hold
	1 chart out (%A, %B, %C, %D, flow)
	1 pressure out
Inputs:	1 injector
	1 stop flow
	1 hold

Ordering Information.	Cat. No.
PrepLC 4000 Preparative Chromatography System includes cabinet, system controller, fluid handling unit, manual loop injector, and start-up kit.	37155

Options:

Waters 486/IEEE Tunable Absorbance Prep UV Detector, Variable 190 mm - 600 mm	80642
Prep Cell for use with Waters 440/441 UV Detectors	89599
401 Preparative Refractive Index Detector	48503
SE® 120 2-Pen Recorder	40307
Waters 746 Data Module	54100
Waters Fraction Collector With Interface Cables	37040
Diverter Valve	37041
Preparative Rack (120 fractions max.)	37060
Preparative Funnel Adaptor (30 fractions each) Max. of four adaptors per rack	37046
Preparative Stand	37050

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