

AutoPrep 1000

Pilot-scale preparative liquid chromatography system

Product Information

The Unique AutoPrep series fully automated preparative liquid chromatography system is designed for the separation and purification of pharmaceuticals such as small molecules, natural products, peptides, and oligonucleotides. The Unique AutoPrep1000 system is suitable for pilot-scale production and purification. The system comprises an autosampler, a preparative chromatography main unit, and preparative columns, enabling the fully automated execution of sample injection, separation and purification, and target fraction collection in a stream-lined workflow.



Product Features

Multiple Configuration Options

- Binary high-pressure gradient or isocratic pumps are available.
- A variety of detectors are optional, including Conductivity, pH, and Multi-wavelength UV detectors.

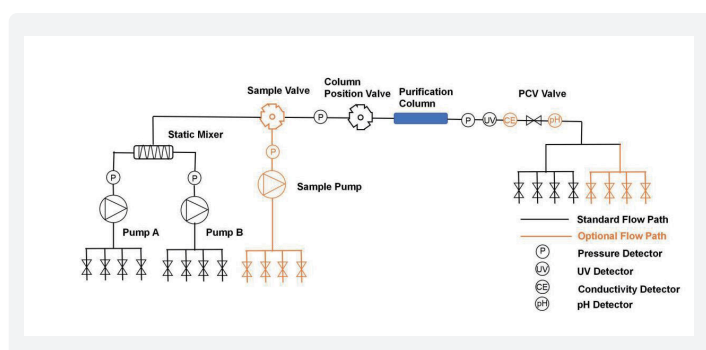
Excellent Performance

- Outstanding specifications for flow rate accuracy, precision, fractionation accuracy, and gradient linearity.
- Pressure Pulsation Compensation Technology reduces system noise and improves the reproducibility of analytical results.
- Dual-beam Compensation Technology: High stability and low baseline drift.

High Level of Automation

- Capable of automated program execution, including automatic sample loading, separation & purification, and target fraction collection.
- Automated result integration, data acquisition, saving, and management.

System Flow Path Diagram



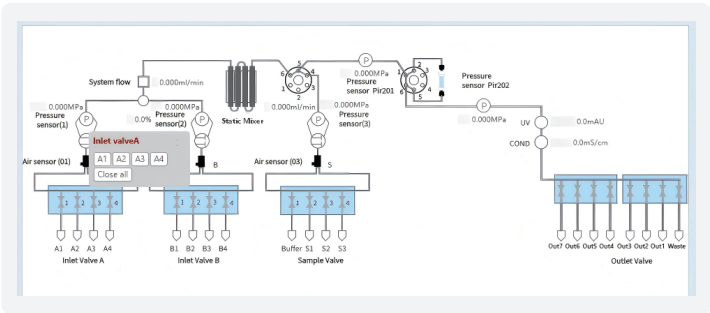
System Configuration Overview



No	Part	No	Part
1	Inlet Valve A	8	Conductivity Detector
2	Inlet Valve B	9	Back Pressure Valve
3	Pump A	10	pH Detection (Optional)
4	Pump B	11	Outlet Valve
5	Static Mixer	12	Sample Inlet Valve (Optional)
6	Column Position Valve	13	Sample Pump (Optional)
7	UV Detector	14	Injection Valve (Optional)

Unique CDSystem

Unique CDSystem Chromatography Workstation Software is capable of instrument control, purification method editing and automated execution, automatic sample injection, automated fraction collection, data acquisition, storage, and management. The software complies with FDA 21CFR Part11 requirements, enabling the management and control of electronic signatures and data records, audit trails, and ensuring that original records cannot be altered. Customizable permission groups and password policies are also supported.



Intuitive software flowcharts and direct interaction screens.

Product parameters

Item	Specifications
Maximum Pressure Resistance	10MPa
Flow Rate Range	5 ml/min - 1000ml/min
Flow Accuracy	±1% @ 5-1000ml/min
Flow Repeatability	RSD≤0.5%
Wavelength	280nm/260nm/254nm: Select one fixed wavelength (L1)
	200-600nm: Select two fixed wavelengths (L2)
	200-400nm: Select any two wavelengths (M402)
	200-600nm: Select any four wavelengths (M604)
	200-800nm: Select any four wavelengths (M804)
	190-800nm: Select any four wavelengths (M894)
Noise	±4*10 ⁻⁵ AU (@254nm, 1S) (L2/M402/M604/M804)
	±2×10 ⁻⁵ AU (L1)
Drift	1×10 ⁻³ AU/HR (L2/M402/M604/M804)
	5×10 ⁻⁴ AU/HR (L1)
Wavelength Indication Error	±1nm
Wavelength Repeatability	±1 nm (L2/M402/M604/M804)
	±0.1nm (L1)
pH	±0.1 (2-12)
Temperature Accuracy	±0.5°C (within the range of 4-50°C)
Conductivity	±0.02 mS/cm or 2% (within the range of 0.1-300 mS/cm)
Inlet Quantity	4 + 4 (8 optional)
Outlet Quantity	4 (8 optional)
Column Compatibility	70-200mm

Product parameters

Item	Specifications
Weight	85kg(Standard configuration)
Dimensions (L×W×H)	860mm*850mm*800mm
Power Supply Voltage	100-240VAC
Power Supply Frequency	50/60 Hz
Maximum Power	1150W
Operating Ambient Temperature	5 °C- 35 °C
Operating Ambient Humidity	20% RH - 60% RH

For more information, please contact your local Inscinstech representative or visit the Inscinstech official website.

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