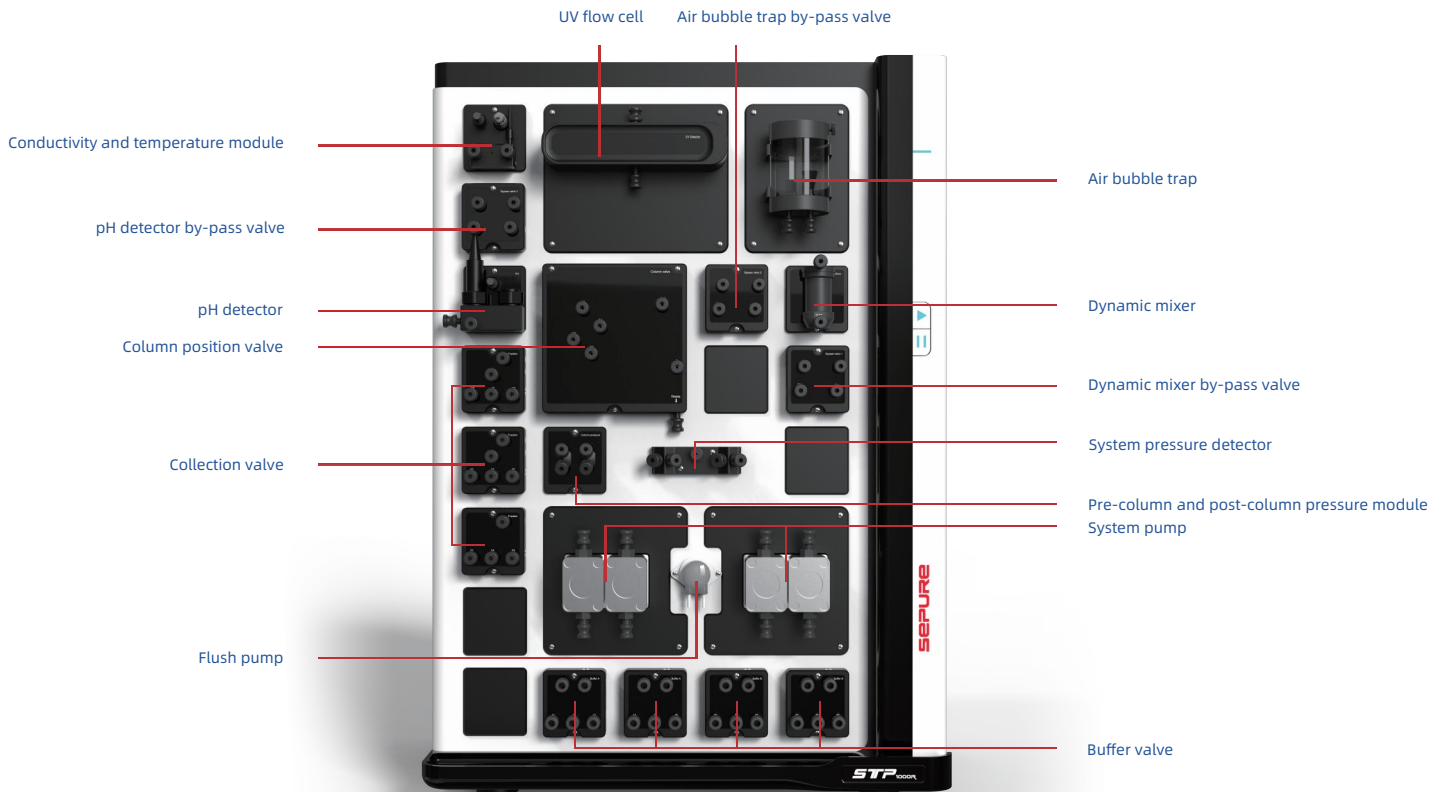




STP 1000R Pilot Scale Protein Purification System

The STP1000R Pilot Scale Protein Purification System is a new generation desktop, pilot-scale protein chromatography system by Sepure Instruments.

- The system uses a new diaphragm valve design to minimize sample residue during the purification process.
- Modular design with reserved empty panels facilitates upgrades and optimizations for different processes in production.
- Compact design with a small footprint, easily placed on a laboratory bench.
- Simultaneous multi-wavelength detection provides precise real-time data collection, visually reflecting the separation of samples and impurities in the chromatography column.
- High-precision system pump offers excellent gradient precision and repeatability, ensuring stable gradient conditions to meet the linear scale-up needs of process development.
- The system pump supports a maximum flow rate of up to 1L/min, suitable for chromatography columns with inner diameters ranging from 26mm to 200mm.
- Powerful chromatography workstation with user-friendly software design, easy to operate with comprehensive functions.
- Visual parameter setting interface displaying real-time operation data; efficient and reliable data processing system making experimental result processing effortless.
- Complies with FDA 21 CFR/GLP/GMP regulations, meeting the cleaning validation requirements for GMP environments. It satisfies the pharmaceutical industry's requirements for data traceability and security.



System module		STP 1000R
System pump	Type	Piston pump
	Flow rate range	0.1-999.99ml/min
	Flow rate accuracy	±2%
	Flow rate precision	RSD<0.5%
	Pressure range	1.6MPa(16bar,232psi)
Mixer	Type	Magnetic stirring dynamic mixer
	Volume	Standard: 15ml
UV detector	Wavelength range	Fixed dual wavelengths :260 & 280nm; Dual-channel variable DAD detector:200-400nm(Standard); DAD400EX four-channel variable DAD detector: 200-400nm; DAD600EX four-channel variable DAD detector: 200-600nm; DAD800EX four-channel variable DAD detector: 200-800nm;
	Wavelength precision/Repeatability	±1nm / ±0.5nm
	Noise/Drift	0.16mAu (1s) / 1mAu/h
	Optical path	2mm
	Operation pressure	1.6Mpa
Conductivity detector	Detection range	0.001-999.99mS/cm
	Detection accuracy	±0.1mS/cm or ±2%
	Operation pressure	1.6Mpa
Temperature detector	Detection range	0-100°C
	Detection accuracy	±1°C
pH detector	Detection range	0-14
	Detection accuracy	±0.1 (2-12)
Column pressure detector	Detection range	0-6000psi
	Detection accuracy	±2%
Air bubble trap	Volume	160ml
Valve (diaphragm valve)	Inlet valve	A pump, B pump supports 3 channels each (standard) ,6 channels or 9 channels
	Mixer valve	Inline, Bypass
	Air bubble trap valve	Inline, Bypass
	Column position valve	C1U: Column 1 forward C1D: Column 1 backward C2U: Column 2 forward C2D: Column 2 backward C1UC2U: Column 1 forward , Column 2 forward , in series C2UC1U: Column 2 forward , Column 1 forward , in series C1DC2D: Column 1 backward , Column 2 backward , in series C2DC1D: Column 2 backward , Column 1 backward , in series Bypass Waste
	pH valve	Inline, Bypass
	Collection valve	3 channels(standard),6 channels or 9 channels
System characteristics	Chromatography workstation	PURFECT Chromatography system software, Brand PC, Win10 operation system
	Installation toolbox	PEEK/PTFE tubing, installation manual, users' instruction, tube connector, clip, back-pressure valve, pre-column filter, 1ml quantitative loop, useful toolkits etc.
	Liquid contact material	PEEK, stainless steel,PPS,PTFE
	Power supply	220VAC/1800W
	Weight	87kg
	Dimensions (W × H × D)	590mm*740mm*530mm