

S6000ULTRA

ultra-high-performance liquid chromatography system



System parameters

Operating temperature and humidity conditions	4-35°C, 20~85%
Total delay volume of the system	< 150μL
Band broadening	< 50μL
Safety alarm and waste liquid management	Leakage alarm, overpressure protection, centralized waste liquid management
pH range	2-12
Maximum operating pressure of the system	150MPa
Flow rate range	0.0001-2.0000ml/min

Binary solvent management unit

Solvent capacity:	4 solvent options
Degassing method and quantity	6-way vacuum degassing
Gradient mixing method	Binary high-pressure mixture
check valve	Active one-way valve, double ball passive one-way valve
Accuracy of flow velocity	$\cong \pm 1.0\%$
Flow velocity precision	$\cong 0.06\%RSD$
Mixed accuracy	$\cong \pm 0.5\%$
Mixed precision	$\cong 0.15\%RSD$
Pump seal cleaning	Independent Automatic
Pump infusion	Automatic perfusion
Main solvent contact materials	316L stainless steel, titanium alloy, ceramics, fluoropolymers, carbon containing PTFE, sapphire, ruby, PEEK



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Sample Management Unit

Injection volume range	0.1—10 μ L, Incremental 0.1 μ L
sample capacity	162 standard sample bottles, compatible with ANSI sample tray x 2
Temperature control range of sample room	4 °C (room temperature -21 °C) -45 °C
Temperature accuracy	$\pm 1^{\circ}\text{C}$
Injection needle cleaning	Automatic, dual selectable
Injection precision	<0.2% RSD
Sample residue	$\leq 0.002\%$
Injection method	Quantitative ring injection (3 injection modes)
Main solvent contact materials	316L stainless steel, titanium alloy PPS 、 Fluorinated polymers, PEEK, and PEEK hybrid materials

Chromatographic Column Management Unit

Column capacity	Maximum length of 25cm, maximum of 3 pieces
Column Management	Optional chromatography column switching valve * 2
temperature range	1 °C -90 °C (1 °C step)
Temperature accuracy	±1°C
Solvent preheating method	Standard passive preheating, optional active preheating
temperature control	Peltier heating/cooling module+air circulation

UV detector parameters (UV)

Optical working mode	Dual beam mode
Wavelength range	190 - 900nm
Maximum sampling frequency	500 Hz
Working method	Single wavelength, dual wavelength
Wavelength accuracy	±1 nm
Noise	$\leq 0.5 \times 10^{-5}$ AU
Drift	$\leq 1.0 \times 10^{-4}$ AU / h
Spectral bandwidth	6nm
Liquidity pool	5mm optical path length (standard), 1.0 MPa (standard)
Wavelength verification	Automatic, built-in independent mercury lamp calibration
Main solvent contact materials	316L stainless steel, fluoropolymer, quartz glass PEEK

Diode Array Detector (6430A)

General Specification

Control mode	Chromloong® software, Independent maintenance software & Third-party software*
Temperature and humidity conditions	5°C-35°C, 25%~85%
Storage conditions	-20°C-45°C, < 60%
Altitude	< 2000m
Power supply	100 – 240 VAC, ± 10 %; 50/60 Hz, 90VA Max
Standards followed	Protection category I, overvoltage category II, moisture-proof level conventional (IPX0)
Dimensions	340 mm(W)×440 mm(D)×150mm(H), ≈ 14Kg

*Please contact local representative of Acchrom Tech to determine the software support policy in your country and region

Performance Specification

Diodes	1024 units
Wavelength range	190 - 900 nm
Max sampling rate	160 Hz
Lamps	Deuterium lamp、Tungsten lamp、Hg lamp
Wavelength accuracy	±1 nm
Noise	$\leq 0.5 \times 10^{-5}$ AU
Drift	$\leq 0.4 \times 10^{-3}$ AU / h
Slit	1nm, 2nm or 4nm, can be switched automatically
Flowcell	10mm optical path (standard)
Calibration	Auto, Hg lamp cal.
Main contact materials	316L SS、fluoropolymer、Silica glass、PEEK

Fluorescence Detector (6440A)

General Specification

Control mode	Chromloong® software,Independent maintenance software & Third-party software*
Temperature and humidity conditions	4°C-35°C, 25%~85%
Storage conditions	-20°C-45°C, < 60%
Altitude	< 2000m
Power supply	100 – 240 VAC, ± 10 %; 50/60 Hz,450 VA Max
Standards followed	Protection category I, overvoltage category II, moisture-proof level conventional (IPX0)
Dimensions	340 mm(W)×440 mm(D)×280mm(H), ≈ 25Kg

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Performance Specification

Lamp	Xenon lamp, Hg lamp (Cal.)
Wavelength ranges	200 - 890 nm, excitation 210 - 900 nm, emission
Max Sampling rate	100 Hz
Bandwidth	15nm or 30nm (selectable)
Wavelength precision	±0.5 nm
Raman signal-to-noise ratio (water)	≥ 1200 (baseline)
Operation Mode	Single wavelength、Dual wavelength, Scan
Flowcell	12μL, 1.0 MPa Max (Standard)
Calibration	Auto, Hg lamp cal.
Main contact materials	316L SS、fluoropolymer、Silica glass、PEEK

Instrument control

	Chromatography Dragon Chromatography Information
Information Science Software	Management Software, Third Party Software*
Communication method	Ethernet cable
Maintenance software	Independently running maintenance software
Input/output	Triggering, time series events, error events, etc.

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Electrical specifications

Binary solvent management unit	100-240VAC±10%, 50-60Hz, 300W
Quantitative Circular Sample Management Unit	100-240VAC±10%, 50-60Hz, 250W
Chromatographic Column Management Unit	100-240VAC±10%, 50-60Hz, 230W
UV Visible Detector	100-240VAC±10%, 50-60Hz, 120W

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