



LC-6000 Preparative HPLC



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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The system is integrated design, the mobile phase delivery unit, detection unit and fraction collection unit is integrated in one set of shelves. It is beautiful and generous, the dead volume of the pipe connection is reduced and the column efficiency is significantly improved. All wetted material is metal!free for biomolecular purification.

System configuration	
Pump /Max. pressure	100ml pump head 30Mpa
	250ml pump head 15Mpa
	500ml pump head 10Mpa
	1000ml pump head 10Mpa
Detector	UV detector/or RI detector
Fraction collector valve	Azura 2.1L, 6 channels or 12 channels
Online filter	48mm or 100mm filter
Sample valve	A1360 sample injection valve
Mixing	Preparative maxing chamber
Frame and tube	System frame, converter, tube
Saftey Features	Leak and pressure sensors
Software	Clarity from DataApex
Kit	System start!up kit and accessories kit
Document	User manual, IQ/OQ/PQ

Note:

1. The mobile phase or sample selection valve is optional in system

2. Fraction collector valve is standard configuration. The alternative is fraction collector.

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3. The flow cell of detector match flow rate of system

4. Sample pump is an optional in the system



SYSTEM REQUIREMENTS	
Dimension	500mm*320mm*700mm
Communication	LAN
System connection	Ferrule
Wetted material	PEEK and PTFE etc.
Power	Less than 1500W
A	The Flow path of LC system nalytical Technologies Limited
P6000 PUMP	0.1~99.9ml /min 30Mpa 0.1~249.9ml /min 15Mpa 0.1~499.9ml/min 10Mpa 0.1~999.9ml/min 10Mpa
Pressure pulsation	1% at 10Mpa
Flow rate accuracy	$\pm 1\%$
Flow rate reproducibility	RSD≪0.5
Gradient accuracy	±2%
Pump inlet tube	Φ4 (100ml, 250ml, 500ml) Φ6 (1000ml)
Pump outlet tube	1/8" (100ml, 250ml, 500ml) DN4 (1000ml)



sample pump

Flow rate	0.1~49.9ml /min 30Mpa
Pressure pulsation	1% at 10Mpa
Flow rate accuracy	\pm 1%
Flow rate reproducibility	RSD≤0.5
Pump inlet tube	Ф3
Pump outlet tube	1/16"
UV DETECTOR	
Wavelength range	190-400nm, 400!800nm
Band width	8nm
Wavelength accuracy	±2nm
Wavelength reproducibility	0.4nm
Baseline noise	3x10 ⁻⁵ Au
Base line draft	1x10 ⁻⁴ Au/h
Flow cell	1/16", PEEK, optical path 10mm
PH Sensor Range	0 to 14
Conductivity sensor range	0 to 900ms.cm
PDA DETECTOR	
Wetted Materials:	Stainless Steel/PEEK*, T, Glas
Baseline Noise:	<10 x 10-6AU (@254 nm, 1 sec. Risetime)
Slit width:	1.2 nm
Sensitivity mode	8nm
Sensitivity Setting Range	0.0001 - 2.000 AUFS
Baseline Drift:	≤1.0x10 ⁻⁴ h/UA
Number of Diodes:	256/512/1024



Bandwidth:	1.2 nm
Wavelength Range:	190 – 720 nm (256 Diodes) 190 – 800 nm (512 Diodes) 190 – 1015 nm (1024 Diodes)
Wavelength Precision:	± 0.1nm
Wavelength Accuracy:	±0.5 nm (256 Diodes); ±1nm(512 Diodes); ±0.1 nm(1024 Diodes);
Wavelength Repeatability	±0.1nm
Element Resolution:	1.2 nm/element
Date Acquisition:	Up to 100 Hz
Temperature Range:	5 - 50°C
Mean Pixel Pitch:	2.2 nm (256 Diodes), 0.8 nm (1024 Diodes)
Resolution (λFWHM):	7 nm (256 Diodes), 1.2 nm (1024 Diodes)
Linearity:	<5% at 2.0 AU min (ASTM)
Light Source	Deuterium Lamp(D ₂ >2000hr lifetime without drop in the energy level with appropriate backup from software and hardware)Tungsten Lamp 10mm Lamp optimization software software to maintain light energy,
Detector features	4-Wavelength channels to measure chromatograms at 4 different wavelengths at the same time
Wavelength Program:	Programmable, 10 steps
Analog Output:	- (optional : 4x 1V)1 Hz - 100 Hz
Cell volume:	Semi-micro flow cell 2.5µl Conventional flow cell 10µl, 10mm cell path length(Analytical and Preparative flow cell 0.5mm), 12Mpa Pressure
Flow cell:	Temperature controlled flow cell
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Flow cell design:	Taperslit for reduced RI effect and better peak shape.
Control Features:	Internal Peak Detector with +24V solenoid switching output.and thermostability
Operating mode	Both 2D and 3D
Digital Resolution	1.2nm - 600nm (3D mode)
Dimensions:	396 x 165 x 478 mm
Power Supply:	100 - 250 ~V (47 - 63 Hz)
Digital and Optical mode:	3D

EVAPORATIVE LIGHT SCATTERING DETECTOR

Light Source	Tungsten / Halogen/LED 470mm
Temperature Range	+5°C to 100°C,0.1°C Increment, feedback accuracy to 0.1°C
Flow Rate	0.1mL/min - 2.5mL/min (standard)
Air Consumption	<3.0L/min
Air Required	>5L/min nitrogen gas or air, 65 Psi
Nebulizer(high flow rate)	100-3000 μl/min
Nebulizer chamber	Nebulizer chamber
Gain Setting	0-1000
Sample Rate	upto 80 Points
Optics	Heated Optics Bench
Lamp calibration	Pre aligned assembly
Detector	PMT
Scattering angle	60 Degree



Measurement range	0.1-2000light scattering units full scale
Angle Output	2, LS units nebulizer,drift tube, CHM Gas pressure

SELECTION VALVE	
Valve type	6 ports multi!position
Valve head material	PEEK/PPS
Rotor seal material	vespel
Maximum pressure stability	150BAR
Capillary connection	1/8"

FRACTION VALVE

Pump /Max. pressure	250ml/min with 5 MPa pressure
Valve type	6 ports multi!position
Valve head material	PEEK/PPS
Rotor seal material	vespel
Tubes	120 (each max capacity: 12ml and 20ml with a waste tank)
Capillary connection	1/8"



SOFTWARE

Package	ClarityChrom
compliance	21CFR Part 11 compliance
Operating system	Windows XP SP3, Windows Vista SP2 32!bit and 64!bit, Windows 7 32!bit and 64!bit, Windows 8 32!bit and 64!bit Windows 10 (32 and 64 bit)
Multiuser environment	Selectable system of user accounts with independently customizable behavior and appearance for individual users
Instrument connection	Supports RS!232, Ethernet, PCI interface card, A/D!D/A interface
Recommended PC hardware	Pentium 2 GHz, 2 GB RAM, 10 GB free hard disk space, separate graphics card if one PC should control more than one system
Graphics capabilities	Multiple chromatogram view and overlay, PDA view
Integration	27 integration parameters (peak width, threshold, tangent slope ratio etc.) integration parameters programmable in time, automatic re!
Security and GLP	Installation qualification test of the software; FDA 21 CFR Part 11 conformance, validation with virtual detector
Instrument control	method!based instrument control, Instrument status dis- play and Direct!Control mode
Chromatogram operations	Overlay view, custom labels and settings, also applying mathematical operations to chromatograms
Automation	Sequences, automatic launch of selected commands or applications immediately following chromatogram acquisi- tion – Post run, Batch
FRC option	for preparative HPLC, adds tools for detector controlled fraction collection and solvent recycling
FRC features	Fractionation can be controlled by time (volume), level, slope including AND/OR combination of these criteria, manual control of fractionation during a run
System suitability test	automates the calculation of system suitability parameters for system validation



HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicin	g :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most
	affordable cost.
Trainings	:We also take up preventive Maintenace to reduce downtime of HPLC's Trainings.
AMC's/CMC	:AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-
	shooting.
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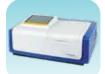
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Spectrophotometer

URINOVA 2800

Urine Analyzer



Liquid Partical Counter



Total Organic Carbon 3800



Fully Automated CLIA

NOVA-2100 Chemistry Analyzer

PCR/Gradient PCR/ RTPCR

TOC Analyzer

Laser Particle Size Analyzer

Ion Chromatograph Water purification system

Regulatory compliances



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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



Analytica

Technologies Limited

HPLC Solutions Corporate & Regd. Office: Analytical House, # E67 & E68,

Ravi Park, Vasna Road, Baroda,

Gujarat 390 015. INDIA

T: +91 265 2253620 +91 265 2252839 +91 265 2252370 F: +91 265 2254395

MultipleLabs

Analytical Bio-Med Analytical Distributors

E: info@hplctechnologies.com

info@analyticalgroup.net

info@analyticalbiomed.com

info@multiplelabs.com

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