

# LC-3600

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## 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 bio-molecular purification.

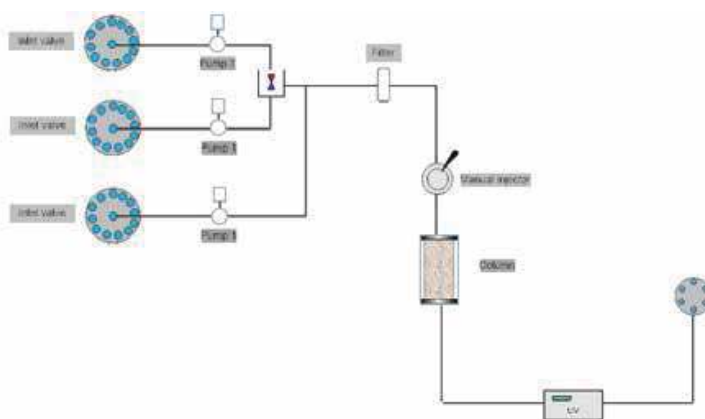
System configuration	
Pump /Max. pressure	100ml pump head 30Mpa 250ml pump head 15Mpa 500ml pump head 10Mpa 1000ml pump head 10Mpa
Detector	UV detector/or RI detector
Fraction collector valve	Azura 2.1L, 6 channels or 12 channels
Online filter	48mm or 100mm filter
Sample valve	A1360 sample injection valve
Mixing	Preparative maxing chamber
Frame and tube	System frame, converter, tube
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.
- 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



The Flow path of LC system  
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<b>P6000 PUMP</b>	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	$RSD \leq 0.5$	
Gradient accuracy	$\pm 2\%$	
Pump inlet tube	$\Phi 4$ (100ml, 250ml, 500ml)	$\Phi 6$ (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	$RSD \leq 0.5$	
Pump inlet tube	$\Phi 3$	
Pump outlet tube	1/16"	

### UV DETECTOR

Wavelength range	190-400nm, 400!800nm
Band width	8nm
Wavelength accuracy	$\pm 2\text{nm}$
Wavelength reproducibility	0.4nm
Baseline noise	$3 \times 10^{-5} \text{Au}$
Base line draft	$1 \times 10^{-4} \text{Au/h}$
Flow cell	1/16", PEEK, optical path 10mm
PH Sensor Range	0 to 14
Conductivity sensor range	0 to 900ms.cm

### 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"

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**FRACTION VALVE**

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Valve type	6 ports multi!position
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Valve head material	PEEK/PPS
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Rotor seal material	vespel
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Maximum pressure stability	150BAR
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Capillary connection	1/8"
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## 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 display 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 acquisition – 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 Servicing** :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 Maintenance 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.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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Size Analyzer



Ion Chromatograph



Water purification  
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## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



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1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [Info@analyticalfoundation.org](mailto:Info@analyticalfoundation.org)

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

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

## Reach us @



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