

# CHROM PERT



Instruments for  
Lab Professionals

CHROMXPERT



# LC-X30 Series

High Performance Liquid  
Chromatography Systems

CHROMXPERT

# Company Profile

Founded in 2010, ChromXpert is Analytical Laboratory instruments and consumables sales company. ChromXpert's Premium line of products includes HPLC and UV-VIS Spectrophotometers, also most needed spectroscopy and chromatography consumables such as Quartz Cuvettes, Syringe and Membrane Filters, Vial/Cap/Septa, Quechers Sample Preparation Kits etc.

ChromXpert use their contracted manufacturing sites for high quality products. Manufacturing facilities has ISO9001:2000 Quality Management System and ISO14001:2004 Environmental Management System. All products are CE Certified and tested according to strict quality rules after production.



ChromXpert aims becoming one of most important solution provider for your laboratories and analysis requests.

# LC-X30 HPLC System



## Excellent Performance

- 9000PSI working pressure
- 2.5AU Linearity range
- 100Hz Sampling rate
- Rapid analysis achievable
- More efficient, less consume

## Flexible Configuration


- Modularized design
- Multi-channel pumps
- Alternative injection modes
- Various detectors
- Custom combination


## Professional Service


- Instrument installation & various training courses
- Application & regulatory compliance service
- Remote diagnose & prompt response
- Preventive maintenance & service plans
- Proactive and comprehensive service





# Specifications


Solvent Organizer		LC-X35 I Solvent Organizer	LC-35 D Solvent Organizer
	Online Wash	Standard Configuration	
	Online Degassing	None	2-channel (480µL/channel)


Delivery Pump		LC-X31 I Isocratic pump	LC-X32 B Binary pump	LC-X31Q Quarternary pump	
	Online Degassing	None	None	4-channel (480µL/channel)	
	Flow Rate Range	0.001mL/min – 10.000mL/min (increment 0.001mL/min)			
	Flow Rate Accuracy	±0.5% (@1mL/min, water)			
	Flow Rate Precision	≤0.1% (@1mL/min, water)(JJG) ≤0.07% RSD (@1mL/min, water)(ASTM)			
	Max. Pressure	9,000 psi (@0-2mL/min) 6,000 psi (@2-5mL/min) 3,000 psi (@5-10mL/min)			
	Pressure Pulsation	≤1% (@1mL/min, water, backpressure > 10Mpa)			
	Gradient Accuracy	None	±0.5%		
	Gradient Rreproducibility		≤0.2% SD	≤0.2% SD	


Autosampler		LC-X33 autosampler
	Sampling Mode	Full loop, partial loopfill and µl pick-up
	Volume of Sample Loop	standard: 100 µL (optional for 10, 20, 100µL)
	Max. Sampling Volume	Full loop = loop volume Partial loop fill = 1/2 loop volume µl pick-up = (loop volume- 3 × needle volume)/2
	Sample Volume	2*48 1.5mL vials(standard) (Optional: 96-hole panel, 384-hole panel, 10mL bottle)
	Cross Contamination	< 0.02%
	Linearity	0.9999
	Pressure Limit	6000 psi (15,000psi sampling valve is optional)

Column Oven		LC-X34 Column Oven
	Temperature Range	Room Temp +5 C - 70 C
	Temperature Accuracy	± 1.0 C
	Temperature Stability	± 0.1 C
	Column Load	250mm column ×1, 50mm guard column ×1

LC-X32E		Evaporative Light Scattering Detector
	Light Source	LED 470nm
	Evaporation Temperature	RT - 100 C (increment 1 C)
	Flow Rate	0.1mL/min – 2.5mL/min (standard)
	Air Consumption	<3.0L/min
	Air Required	>5L/min nitrogen gas or air, 2 -4.5Bar

UV-VIS Detector		LC-X32 U UV-VIS Detector
	Wavelength	190-800 nm
	Light Source	Deuterium lamp, Tungsten lamp
	Spectral Width	8nm
	Wavelength Accuracy	±1 nm
	Wavelength Precision	0.2 nm
	Noise	±0.5×10 <sup>-5</sup> AU (JJG) ±0.35×10 <sup>-5</sup> AU (ASTM)
	Drift	1×10 <sup>-4</sup> AU/Hr
	Linear Range	>5×10 <sup>4</sup> (JJG) >2.5AU (ASTM)
	Max. Sampling Rate	100 Hz
	Flowcell Pressure	1200 PSI
	Flowcell Light Path	10 mm
	Flowcell Volume	12μL
	Detection Limit	5×10 <sup>-9</sup> g/mL

Diode Array Detector		LC-X32 P Diode Array Detector
	Diode Array	1024 pixels
	Wavelength	190 ~ 640 nm
	Light Source	Deuterium lamp
	Spectral Resolution	0.6 nm/pixel
	Spectral Width	4.8 nm
	Wavelength Accuracy	± 1 nm
	Wavelength Precision	0.1 nm
	Noise	± 1.0×10 <sup>-5</sup> AU (JJG) ± 0.6×10 <sup>-5</sup> AU (ASTM)
	Drift	0.5×10 <sup>-3</sup> AU/Hr
	Linear Range	>2.0AU (ASTM)
	Max. Sampling Rate	8 channels, 100 Hz; Full spectrum, 100Hz
	Flowcell Pressure	1200 PSI
	Flowcell Light Path	10 mm
	Flowcell Volume	12 μL
	Detection Limit	2×10 <sup>-8</sup> g/mL (naphthalene)
Wavelength Calibration	Mercury peaks and built-in holmium oxide filter	

Refractive Index Detector		LC-X32 R Refractive Index Detector
	Refractive Index range	1.00 ~ 1.75
	Measuring range	0.25 ~ 512 μ RIU
	Linearity range	≥600 μ RIU
	Response time	0.1, 0.25, 0.5, 1, 1.5, 2, 3, 6 sec
	Auto zero	Full auto zero
	Cell volume	8 μL
	Flow rate (Typical)	0.2 ~3.0mL/min
	(Max.)	10mL/min(solvent: pure water)
	Max. pressure	50kpa
	Temp. control	OFF, 30 ~55°C (1°C step), 77°C Temp. fuse
Noise	≤2.5 nRIU (Pure water, response: 1.5sec)	

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