

# ION CHROMATOGRAPHY SYSTEM LTCGR8-4



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Used in Food Testing, Chemical Industry, Beverage Testing, Drug testing, Forensic Science, Pharmaceutical, Molecular Biology, Medical, Research, Laboratory.

## LTCGR8-4 ION CHROMATOGRAPHY SYSTEM

Built-in eluent generator, free from configuring eluent, with gradient elution available.

Modular manufacturing process to maintain excellent systemic stability.

Built-in low-pressure degassing technology to eliminate bubble interference for more stability.

Optional intelligent automatic injection system for large sample volumes, which features automatic dilution to save labor and time.

Work across a variety of detectors, to expand the scope of applications of ion chromatography.



## SPECIFICATIONS

Model	LTCGR8-4
Ion Chromatographic Pump	
Maximum Pressure	35 Mpa (PEEK)
Type	High-pressure and low-pulse two-piston tandem advection pump
Pressure Display Accuracy	$\leq 0.1$ MPa
Flow Range	0.001 ~ 9.999 mL/min
Pressure Pulse	$\leq 0.5\%$
Flow Stability	(0.2-0.5) mL/min $\leq 3\%$ ; (0.5-1.0) mL/min $\leq 2\%$ ; > 1.0 mL/min $\leq 2\%$
Conduction Detection System	
Type	Temperature control and bipolar conductivity detector
Cell Volume	$\leq 0.8\mu\text{L}$
Detection Mode	Bipolar conductivity detection
Detection Range	0~50000 $\mu\text{S/cm}$
Detection Resolution	$\leq 0.0020\text{nS/cm}$
Output Voltage	-6000~+6000 mv (adjustable)
Electronic Noise	0.02 nS
Baseline Noise	$\leq 0.05\%$ FS
Baseline Drift	$\leq 3\%$ FS
Operating Temperature Range	Room temperature +5°C~60°C(41~140°F)
Controlling Temperature Accuracy	$\pm 0.01^\circ\text{C}$
Maximum Pressure	10.0 Mpa
Linear Range	$\geq 10^3$
Instrument Linearity	$\geq 0.999$
Quantitative Repeatability	$\leq 1.0\%$
Qualitative Repeatability	$\leq 1.0\%$
Minimum Detectable Concentration	Cl <sup>-</sup> $\leq 0.0005$ ug/mL; Li <sup>+</sup> $\leq 0.001$ ug/mL; BrO <sub>3</sub> <sup>-</sup> $\leq 0.001$ ug/mL

Flow System	
Six-way Valve	PEEK material, pressure 5000 psi; Independent automatic collecting and flow function.
Built in Eluent Generator	
Eluent Types	KOH/MSA
Eluent Concentration Range	0.1-120 mM
Concentration Increment	0.1 mM
Flow Rate Range	0.1-5.0 mL/min
Maximum Pressure	20 Mpa
Minimum Pressure	5 Mpa
Suppressor	
Type	Self-Regenerating electrolytic micro-membrane suppressor
Maximum Pressure	6.0 Mpa
Dead Volume	<50 µL
Other Specifications	
Dimension (LxWxH)	350x470x650 mm
Net Weight	34 kg
Gross Weight	40 kg
Power	150 W



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