

ION CHROMATOGRAPHY SYSTEM LTCGR8-1



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

LTCGR8-1 ION CHROMATOGRAPHY SYSTEM

Built-in circulating 3D constant temperature technology:

Temperature stability time is less than 30 mins, ensuring the accuracy and reliability of test data.

The world's leading full-range series of ion chromatographic columns:

High efficiency, large capacity of the columns for detecting ions of varied compositions.

Self-Regenerating Electrolytic Micro-membrane Suppressor:

High pressure resistance, small dead volume, highly responsive to signals.

Auto-range Conductivity Detector:

It can directly detect the signal from ppb to ppm without adjusting the range. Only one conductivity detector can detect anions and cations.

Observatory intelligent workstation:

Integrated control, intelligent start-up, shutdown and maintenance functions.

Compatible with a variety of instruments.



SPECIFICATIONS

Model	LTCGR8-1
Ion Chromatographic Pump	
Maximum Pressure	42 Mpa (Stainless steel)
Type	High-pressure and low-pulse two-piston tandem advection pump
Pressure Display Accuracy	≤ 0.1 MPa
Flow Range	0.001 ~ 9.999 mL/min
Pressure Fluctuation	$\leq 0.5\%$
Flow Stability	(0.2-0.5) mL/min $\leq 2\%$; (0.5-1.0) mL/min $\leq 1\%$; > 1.0 mL/min $\leq 1\%$
Manual Sample Injector	
Contact Material of the Rotor	PEEK
Contact Material of Medium	PEEK/Ceramics
Column Heater	
Operating Temperature Range	20°C~60°C (68~140°F)
Controlling Temperature Accuracy	$\pm 0.01^{\circ}\text{C}$
Allowable Deviation of Column Heater's Temperature	$\pm 1^{\circ}\text{C}$
Temperature Stability	$\leq 0.05^{\circ}\text{C/h}$
Conduction Detection System	
Type	Constant temperature auto-range conductivity detector
Cell Volume	$\leq 0.8\mu\text{L}$
Detection Range	0~35000 $\mu\text{S/cm}$
Detection Resolution	$\leq 0.0020\text{nS/cm}$
Output Voltage	-6000~+6000 mv (adjustable)
Electronic Noise	0.02 nS

Baseline Noise	$\leq 0.001 \mu\text{S/cm}$
Baseline Drift	$\leq 0.02\mu\text{S}$
Operating Temperature Range	Room temperature +5°C~60°C(41~140°F)
Controlling Temperature Accuracy	$\pm 0.01^\circ\text{C}$
Temperature Compensation	1.7 %/°C
Maximum Pressure	10.0 Mpa
Linear Range	$\geq 10^3$
Instrument Linearity	≥ 0.999
Quantitative Repeatability	$\leq 1.0\%$
Qualitative Repeatability	$\leq 0.5\%$
Minimum Detectable Concentration	Cl ⁻ $\leq 0.0005 \mu\text{g/mL}$; Li ⁺ $\leq 0.001 \mu\text{g/mL}$; BrO ₃ ⁻ $\leq 0.001 \mu\text{g/mL}$
Flow System	
Six-way Valve	PEEK material, pressure 5000 psi; Independent automatic collecting and flow function.
Suppressor	
Type	Self-Regenerating electrolytic micro-membrane suppressor
Maximum Pressure	6.0 Mpa
Dead Volume	<50 μL
Other Specifications	
Dimension (LxWxH)	350x470x510 mm
Net Weight	26 kg
Gross Weight	32 kg
Power	150 W



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