

ION CHROMATOGRAPHY SYSTEM LTCGR8-2



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

LTCGR8-2 ION CHROMATOGRAPHY SYSTEM

Temperature-control bipolar conductivity detector:

Greater detection range, better precise analysis.

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.

Able to detect anions and cations at the ppb level.

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



SPECIFICATIONS

Model	LTCGR8-2
Ion Chromatographic Pump	
Maximum Pressure	35 Mpa (PEEK)
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 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 $\leq 2\%$
Allowable Deviation of Flow	(0.2-0.5) mL/min $\pm 5\%$; (0.5-1.0) mL/min $\pm 3\%$; > 1.0 mL/min $\pm 2\%$
Numerical-control and Electromagnetic Sample Injector	
Maximum Pressure	35 Mpa
Contact Material of the Rotor	PEEK
Control Mode	By Stepper motor
Power Supply	24 V (DC)
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	0~45000 $\mu\text{S/cm}$
Detection Resolution	$\leq 0.0020\text{nS/cm}$
Output Voltage	-6000~+6000 mv (adjustable)
Electronic Noise	0.02 nS
Baseline Noise	≤ 0.001 $\mu\text{S/cm}$
Baseline Drift	$\leq 0.02\mu\text{S}$

Operating Temperature Range	Room temperature +5°C~60°C
Controlling Temperature Accuracy	±0.01°C
Maximum Pressure	10.0 Mpa
Linear Range	≥ 10 ³
Instrument Linearity	≥0.999
Quantitative Repeatability	≤1.0%
Qualitative Repeatability	≤0.1%
Minimum Detectable Concentration	Cl ⁻ ≤ 0.0005 ug/mL; Li ⁺ ≤ 0.001 ug/mL; BrO ₃ ⁻ ≤ 0.001 ug/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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