

# PORTABLE ION CHROMATOGRAPHY SYSTEM LTCGR8-6



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## LTCGR8-6

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

### LTCGR8-6 PORTABLE ION CHROMATOGRAPHY SYSTEM

Powerful data processing system:

Iconic display, customizable interface, integration of instrument control, data analysis and processing, data sharing module for on-site and remote data sharing through 4G network.

Quick chromatographic columns for 5-min rapid detection:

Original quick chromatographic columns for on-site quick detection of anions and cations.

Intelligent flow path cleaning makes easier cleaning:

The flow path is designed with a switching valve for free switch of eluent bottles and pure water bottles.

WI-FI communication, real-time operation:

Being equipped with a tablet/laptop makes real-time operation more flexibly and conveniently.

Upgrade-supported dual detectors (Conductivity Detector and ampere detector) to meet the needs of different industries.



### SPECIFICATIONS

Model	LTCGR8-6
Ion Chromatographic Pump	
Maximum Pressure	35 Mpa (PEEK)
Type	High-pressure and low-pulse two-piston tandem advection pump
Flow Range	0.001 ~ 9.999 mL/min
Flow Accuracy	±0.5%
Flow Repeatability	RSD≤0.1%
Flow Stability	(0.2-0.5) mL/min ≤ 3%; (0.5-1.0) mL/min ≤ 2%; > 1.0 mL/min ≤ 2%
Numerical-control and Electromagnetic Sample Injector	
Maximum Pressure	35 Mpa
Control Mode	By Stepper motor
Power Supply	24 V (DC)
Column Heater	
Operating Temperature Range	Room temperature +5°C~60°C(41~140°F)
Allowable Deviation of Column Heater's Temperature	± 1°C
Temperature Stability	≤ 0.5°C/h
Conduction Detection System	
Type	Temperature control and bipolar conductivity detector
Cell Volume	≤0.8μL
Detection Mode	Bipolar conductivity detection

Detection Range	0~45000 $\mu$ S/cm (adjustable)
Detection Resolution	$\leq$ 0.0020nS/cm
Output Voltage	-6000~+6000 mv (adjustable)
Baseline Noise	$\leq$ 0.5% FS
Baseline Drift	$\leq$ 20% FS/30 min
Operating Temperature Range	Room temperature +5°C~60°C(41~140°F)
Controlling Temperature Accuracy	$\pm$ 0.01°C
Maximum Pressure	10.0 Mpa
Instrument Linearity	$\geq$ 0.999
Quantitative Repeatability	$\leq$ 0.5%
Qualitative Repeatability	$\leq$ 2%
Minimum Detectable Concentration	Cl- $\leq$ 0.005 ug/mL; Li+ $\leq$ 0.001 ug/mL
Flow System	
Six-way Valve	PEEK material, pressure 5000 psi; Independent automatic collecting and flow function.
Panel Computer	
Display Screen	12.3 inch
Internal Memory	2 G
Weight	786 g
Maximum Pressure	20 Mpa
Minimum Pressure	5 Mpa
Suppressor	
Maximum Pressure	6.0 Mpa
Dead Volume	<30 $\mu$ L
Other Specifications	
Dimension (LxWxH)	330x220x310 mm
Net Weight	8 kg
Gross Weight	11 kg
Battery Capacity	5000 mAh
Power	150 W



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