

LABTRON



ION CHROMATOGRAPHY

LICS-A10

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Ion Chromatography

Ion chromatography system LICS-A10

This Ion chromatography system is compatible with strong organic solvents, alkali and base. It is equipped with advanced digital temperature controlled conductivity detector for maintaining constant temperature of the column system. This multifunctional Ion chromatography system has provision for easy washing and easy daily maintenance.

Features

- Normal and high precision detection system
- Automated gas removal technology
- Incorporation of PEEK flow path system
- Large LCD display screen to show parameters like pressure, temperature, conductivity

Applications

This Ion chromatography does cation and anion analysis and hence it is widely used in environmental science for water analysis, in chemical analysis and colleges and universities for education purpose.

Specifications

Model no.	LICS-A10
Ion Pump	
Type	Imported high pressure dual piston series reciprocating plunger pump
Maximum pressure	42MPa
Flow rate range	0.001-9.999mL/min
Pressure precision	≤ 0.1 MPa
Flow rate precision	RSD<0.1%
Flow rate repeatability	RSD ≤ 0.1 %
Flow path system	
Full plastic flow path	PEEK material
Six-way valve	American Rheodyne High-Pressure six-way valve, can bear pressure 7000Psi
Constant Temperature Conductivity Detector	
Type	The fifth level ring passivity electrode, 316 stainless steel electrode shield conductivity cell
Detection way	Single conductivity detection

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Cell volume	≤0.9μL
Resolution ratio	≤0.0020ns
Detection range	0~35000 μS/cm (10 shifts for choosing)
Output voltage	±6000mV
Baseline noise	<0.5% FS
Baseline drift	≤±0.5% FS
Temperature control range	Room temperature +5°C~60°C
Temperature precision	±0.01°C
Temperature compensation	1.7%/ °C
Limit operation pressure	5.0MPa (750 Psi)
Ion detection	
Anion analysis	Cl ⁻ , F ⁻ , Br ⁻ , I ⁻ , SO ₄ ²⁻ , PO ₄ ³⁻ , NO ₂ ⁻ , NO ₃ ⁻ , ClO ₂ ⁻ , ClO ₃ ⁻ , BrO ₃ ⁻ and organic acid analysis
Cation analysis	Na ⁺ , Li ⁺ , NH ₄ ⁺ , K ⁺ , Mg ²⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ and organic amine analysis
Analysis repeatability	≤1.0% (calculated with SO ₄ ²⁻ , Na ⁺)
Linear range	≥10 ³
Limit detection	≤0.5 ppb (calculated with Cl ⁻), ≤5 ppb (calculated with Na ⁺)
Quantitative repeatability	RSD≤0.2%
Residual sample	≤0.01%+
Gradient error	≤0.5%



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