

LABTRON

ION CHROMATOGRAPH

LPIC-A10



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Ion Chromatograph LPIC-A10

Ion Chromatograph LPIC-A10 is a light weight, portable design model with powerful data processing system. The quick ion chromatograph columns are used for rapid 5 min detection. Adopted with built-in multi-channel solvent selection valve helps in gradient elution, it shortens peak time, and improves efficiency of the chromatograph conducted. Upgraded with dual detection system (dual column for various applications), supports the needs of different industries.

Features

- Built-in column temperature control box for accurate experimental results
- Capable with Flash column for rapid detection of anions and cations
- Intelligent flow path clearing system for easy cleaning
- Real time display
- Wi-Fi connection for convenient data transfer
- Continuous, non-stop 10 hours working system
- Easy to operate

Applications

Used for on field selective analysis of organic and inorganic ions, also used in quality and research laboratories across pharmaceutical, water quality, chemical industries.

Specifications

Chromatographic Pump	
Type	High-pressure and low-pulse double plunger tandem advection pump
Maximum Pressure	35 MPa (PEEK)
Flow Range	0.001 to 9.999 mL/min
Flow accuracy	± 0.5 %
Flow Repeatability	RSD ≤ 0.1%
Flow stability	(0.2 to 0.5) mL/min, ≤ 3 %; (0.5 to 1.0) mL/min, ≤ 2 %; >1.0 mL/min, ≤ 2 %;
Built-in Heat conduction type column heater	
Temperature range	Room temperature +5 °C to 60 °C (41 to 140 °F)
Allowable deviation	± 1 °C
Temperature stability	≤ 0.5 °C/h
Electromagnetic injection valve	
Maximum pressure	35 MPa
Control mode	By stepper motor
Power supply	24 V (DC)
Digital and temperature control detection system	
Type	Temperature control and bipolar conductivity detector
Detection type	Bipolar conductivity detection
Cell volume	≤ 0.8 µL
Measurement range	0 to 45000 µ S/cm (adjustable)
Detection resolution	≤ 0.0020 nS/cm

Specifications

Output voltage	-6000 to 6000 mV (adjustable)
Temperature range	Room temperature +5 °C to 60 °C (41 to 140 °F)
Temperature accuracy	± 0.01°C
Maximum pressure	10 MPa
Baseline drift	≤ 20 % FS/30 min
Baseline noise	≤0.5 % FS
Instrument linearity	≥ 0.999
Quantitative Repeatability	≤0.5 %
Qualitative Repeatability	≤2 %
Minimum detectable concentration	Cl-≤0.005 µg/mL; Li+ ≤0.005 µg/mL
Flow system	
Plastic path flow	Made of PEEK material
Six way valve	PEEK material pressure 5000 psi, independent automatic collecting and flow function
Panel computer	
Display screen	12.3 inch
Internal memory	2G
Weight	786 g
External size (L*W*H)	440 × 226 × 420 mm
Net weight	8 kg
Gross weight	11 kg

Optional Accessories

Accessories No.	Name	Qty.
1	Anion Column	1
2	Guard Column	1
3	Anion Suppressor	1
4	Spare parts kit	1

Standard Accessories

Accessories No.	Name	Qty.
1	Ion Chromatography Host	1
2	High Pressure Advection Pump	1
3	Conductivity Detector	1
4	Anion Column	1
5	Anion Guard Column	1
6	Suppressors	1
7	Chromatography Workstation	1
8	Column Thermostat System	1
9	Spare Parts Kits	1
10	Vacuum Degassing Pump	1
11	Sand Core Filtration Devices	1
12	Pretreatment Column	20
13	0.22 µm syringe filter	200