

Ion chromatograph

LICS-A21



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lon chromatograph system LICS-A21 is a modular design ion chromatograph with high column efficiency and large column capacity and stable performance. With large conductivity detection range, it delivers more accurate results. Bipolar conductivity detector, improves the detection performance and stability of the instrument. Built-in circulating stereo constant temperature, and other technologies ensures accurate and reliable experimental data.

Features

- Large column capacity to detect various component ions
- Maintains excellent system stability
- Temperature controlled bipolar conductivity detector
- Automatic, self-regenerating electrolytic microfilm suppressor
- Intelligent workstation controls
- RS232, USB Interface
- User-friendly operations

Applications

Used to detect small molecules (in the form of anion, cation) in food, chemical, mining, metallurgy, environment and other fields.

Specifications

Model no.	LICS-A21		
Ion Chromatographic	Туре	High pressure and low pulse double	
Pump		plunger tandem advection pump	
	Maximum pressure	35 MPa (PEEK)	
	Pressure display accuracy	≤ 0.1 MPa	
	Flow stability	(0.2 to 0.5) ml/ min ≤ 3 % (0.5 to 1.0) ml/ min ≤ 2 % > 1.0 ml/ min 2 %	
	Flow range	0.001 to 9.999 ml/ min	
	Pressure pulse	≤ 0.5%	
Conductivity	Туре	Temperature Control and Bipolar	
Detector		Conductivity Detector	
	Detection mode	Bipolar conductivity detection	
	Cell volume	≤ 0.8 µL	

	Detection range	0 to 45000 µS/ cm	
	Detection resolution	≤ 0.0020 nS/ cm	
	Output voltage	- 6000 to +6000 mV (adjustable)	
	Baseline noise	≤ 0.05 % F.S.	
	Baseline drift	≤ 3 % FS/ 30 min	
	Operating temperature range	Room temperature +5 to 60°C (41 to 140°F)	
	Controlling temperature accuracy	± 0.01°C	
	Maximum pressure	10 MPa	
	Linear range	≥ 103	
	Instruments linearity	≥ 0.999	
	Quantitative repeatability	≤ 1.0 %	
	Qualitative repeatability	≤ 1.0 %	
	Minimum detectable	Cl ≤ 0.0005 ug/ ml	
	concentration	BrO3≤0.001 ug/ ml	
		Li+ ≤ 0.001 ug/ ml	
Flow system	Plastic flow path	Made of PEEK materials	
	Six way Valve	PEEK material, 5000 psi pressure, independent automatic collection and flow function	
Power supply	150 W		
External dimension	350 × 470 × 510 mm		
Net weight	26 kg		
Gross weight	32 kg		

Standard Accessories

Sr. 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	Suppressor	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

Optional Accessories

Optional Accessories	Name	
1	Auto sampler (20 samples)	
2	Auto sampler (54 samples)	
3	Auto sampler (108 samples)	
4	Anion column	
5	Guard column	
6	Anion suppressor	
7	Spare parts kits	