

Ion chromatograph

LICS-A21



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Ion 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 Pump	Type	High pressure and low pulse double 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 Detector	Type	Temperature Control and Bipolar Conductivity Detector
	Detection mode	Bipolar conductivity detection
	Cell volume	≤ 0.8 μL

	Detection range	0 to 45000 μ S/ cm
	Detection resolution	\leq 0.0020 nS/ cm
	Output voltage	- 6000 to +6000 mV (adjustable)
	Baseline noise	\leq 0.05 % F.S.
	Baseline drift	\leq 3 % FS/ 30 min
	Operating temperature range	Room temperature +5 to 60°C (41 to 140°F)
	Controlling temperature accuracy	\pm 0.01°C
	Maximum pressure	10 MPa
	Linear range	\geq 103
	Instruments linearity	\geq 0.999
	Quantitative repeatability	\leq 1.0 %
	Qualitative repeatability	\leq 1.0 %
	Minimum detectable concentration	Cl \leq 0.0005 ug/ ml
		BrO3 \leq 0.001 ug/ ml
		Li+ \leq 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