

labodam

# LICS-A20 Ion chromatograph system



[www.labodam.com](http://www.labodam.com) // [info@labodam.com](mailto:info@labodam.com)

Ion chromatograph system LICS-A20 is a modular design ion chromatograph with an upgraded circuit technology. Bipolar conductivity detector, improves the detection performance and stability of the instrument. Gradient elution system detects small molecules from complex samples. Built-in circulating stereo constant temperature and other technologies ensures accurate and reliable experimental data.

## Features

- Built-in eluent generator
- Maintains excellent system thermal stability
- Built-in low pressure degassing technology eliminates bubble interference
- Automatic, self-regenerating electrolytic microfilm suppressor
- Automatic standard dilution function, saves manpower time and cost
- Complete solution support with 3 & 5 warranty policy
- 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-A20	
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 35000 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 concentration	Cl	≤ 0.0005 ug/ ml
		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	
Degassing Device	Inner volume	300 µl	
	Degassing volume	7.5 ml	
	Maximum flow rate	10 ml/ min	
	Degassing efficiency	Degassing 90 % at 1ml/ min	
	Organic tolerance	100 %	
Built-in Eluent Generator	Eluent types	KOH/ NaOH	
	Eluent concentration range	0.1 to 100 mM	
	Concentration increment	0.1 mM	
	Flow rate change	0.1 to 3.0 ml/ min	
	Maximum pressure	20 MPa	
	Minimum pressure	5 MPa	
Power supply	150 W		
External dimension	350 × 470 × 650 mm		
Net weight	34 kg		
Gross weight	40 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
14	Eluent generator	1

**Optional Accessories**

Accessories no.	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