

IC-3120

ION CHROMATOGRAPH



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

IC-3120 is a high-stability ion chromatograph with upgrade circuit. It can be compatible with external equipment such as amperometric detector, UV detector, ultraviolet-post-column derivatization device and so on. Using ATL leading ion column technology, the separation of anion, cation, cyanide, iodide, sugar and small molecular organic acids can be realized. It is widely used in the fields of environment, disease control, food, chemical industry, electronics, mining and metallurgy.

►► Technology Advantage:

- **Temperature-control bipolar conductivity detector**
Greater detection range and better accuracy of analysis;
- **Built-in circulating 3D constant temperature technology**
Temperature stability time is less than 30 mins, ensuring the accuracy and reliability of test data;
- **The world's leading full-range series of ion chromatographic columns**
High efficiency, large capacity, satisfying the detection of various ion;
- **Self-Regenerating Electrolytic Micro-membrane Suppressor**
High pressure resistance, small dead volume, highly responsive to signals;
- **Observatory intelligent workstation**
Integrated control, compatibility for a variety of instruments, customized images;
- **Able to detect anions and cations at the ppb level**
- **Work across a variety of detectors, to expand the scope of applications of ion chromatography**

►► Technical parameters:

Ion Chromatographic Pump	
Type	High-pressure and low-pulse double plunger tandem advection pump
Maximum Pressure	35MPa
Pressure Display Accuracy	≤0.1MPa
Flow Stability	(0.2-0.5)mL/min≤3%; (0.5-1.0)mL/min≤2%; >1.0mL/min≤2%;
Allowable Deviation of Flow	(0.2-0.5)mL/min, ±5%; (0.5-1.0)mL/min, ±3%; >1.0mL/min, ±2%;
Flow Range	0.001~9.999mL/min
Pressure Pulse	≤0.5%
Injector	
Maximum Pressure	35MPa
Contact Material of the Rotor	PEEK
Control Mode	By Stepper motor
Power Supply	24V (DC)
Conductivity detector	
Type	Temperature--control and bipolar conductivity detector
Detection Mode	Bipolar conductivity detection
Cell Volume	≤0.8μL

Detection Range	0~45000 μ S/cm
Detection Resolution	≤ 0.0020 nS/cm
Output Voltage	-6000~+6000 mV (adjustable)
Baseline Noise	$\leq 0.05\%$ FS
Baseline Drift	$\leq 3\%$ FS/30min
Operating Temperature Range	Room temperature +5°C ~ 60°C
Controlling Temperature Accuracy	$\pm 0.01^\circ\text{C}$
Maximum Pressure	10.0MPa
Linear Range	$\geq 10^3$
Instrument Linearity	≥ 0.999
Quantitative Repeatability	$\leq 1.0\%$
Minimum Detectable Concentration	Cl ≤ 0.0005 ug/mL; Li ≤ 0.001 ug/mL; BrO ₃ ≤ 0.001 ug/mL;
Flow System	
Plastic Flow Path	Made of PEEK materials
Six-way Valve	PEEK material, pressure 5000psi;Independent automatic collecting and flow function.
Power Supply	150W
External Size(L*W*H*)	350*470*510
Net Weight(KGS)	26
Gross Weight(KGS)	32

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @



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