

CIC-D120+

Ion Chromatograph



Features

- It has the functions of pressure alarm, liquid leakage alarm and eluent alarm to protect the safe operation of the instrument in real time, alarm and shut down when liquid leakage occurs.
- The key components of the suppressor and chromatograph column have real-time monitoring function to ensure the timely replacement of consumables and ensure the stability and accuracy of the instrument operation.
- The gas-liquid separator can effectively remove the influence of bubbles on the test.
- Must be optional with Shine high-performance autosampler, more accurate injection control.
- Start up and warm up. The instrument can be started up in advance according to the setting, and the operator can test directly at the unit.
- The software has the baseline deduction function and filtering algorithm to effectively remove the baseline drift caused by gradient elution, and the sample response is more obvious.
- Automatic range conductivity detector, ppb-ppm concentration range signal is directly expanded, without adjusting the range.

Technical Parameter

CIC-D120 ⁺		
Specifications:		
Number of samples		<ul style="list-style-type: none"> ● 120 vial (60*60) , 2ml (Standard) ● 48 vial (24*24) , 5ml (Optional) ● 30 vial (15*15) , 7ml (Optional) ● 30 vial (15*15) , 10ml (Optional)
Autosampler		
(Optional SHA-18i)	Automatic dilution ratio	1-10000 times
	Syringe pump	250 μ L
	Maximum injection volume	1000 μ L
	Minimum injection volume	1 μ L
	Injection methods (three types)	Full loop/partial loop/Micro injection
	Injection accuracy	$\pm 1\%$
	Injection precision	$\leq 0.5\%$
	Carry-over	$\leq 0.001\%$
Sensor	Leakage Sensor	Standard configuration
Gas-liquid separator	One	Standard configuration
Flow Path	PEEK material	Chemically inert, metal-free PEEK flow paths, compatible with aqueous eluents of pH

CIC-D120⁺

Specifications:

0–14 and reversed-phase solvents		
Type	High-pressure and low-pulse two-piston tandem advection pump	
Pump	Maximum Pressure Flow Rate Range Pressure Ripple Flow Precision Flow Accuracy External Diameter of the Tube	42MPa 0.001~12mL/min ≤0.5% ≤0.1% ≤0.1% 1/16"
Valve	Contact Material of the Rotor	PEEK
	Control Mode Power Supply	By Stepper motor 24V (DC)
Column	Operating Temperature Range	Ambient + 5 to 85 °C
Heater	Controlling Temperature Accuracy Temperature Stability	±0.1 °C ≤0.1 °C/h
	Columns Supported	2, 3, 4 and 5 mm I.D. Maximum length 250 mm analytical column with 50 mm guard column.
Self-Regeneration		
Suppressor	Type Maximum Pressure Non-Suppressed Chromatography Void Volume	electrolytic micro-membrane suppressor 6.0MPa Yes/support <40µL (4mm) <15µL (2mm)

CIC-D120⁺

Specifications:

Type			Auto-range conductivity detector
	Cell Volume		$\leq 0.4\mu\text{L}$
	Detection Range		0~50000 $\mu\text{S}/\text{cm}$
	Resolution		$\leq 0.0020\text{nS}/\text{cm}$
	Output Voltage		-6000~+6000mv(adjustable)
	Electronic Noise		0.02nS
	Baseline Noise		$\leq 0.001\mu\text{S}/\text{cm}$
Conductivity	Baseline Drift		$\leq 0.01\mu\text{S}$
Detector	Temperature Range		Ambient +5°C~60°C
	Controlling Temperature Accuracy		$\pm 0.01^\circ\text{C}$
	Temperature Compensation		1.7 %/ $^\circ\text{C}$
	Maximum Pressure		10.0MPa
	Instrument Linearity		≥ 0.999
	Quantitative Repeatability		$\leq 0.5\%$
	Qualitative Repeatability		$\leq 0.5\%$
Minimum	Detectable		$\text{Cl}^- \leq 0.0005\mu\text{g}/\text{mL}$
	Concentration		$\text{Li}^+ \leq 0.0005\mu\text{g}/\text{mL}$
Power Supply			150W
External Size(W*L*H)			360*500*560 mm
Net Weight			30 Kg



Add: No.151, Zhuzhou Road, Laoshan District, Qingdao, Shandong, China
Tel: 086 (0)53268069317
E-mail: inquiry@qdsrd.com
Web: en.sheng-han.com