

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:		
Autosampler (Optional SHA-18i)	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)
	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	$\leq 0.001\%$
	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
Pump	Type	High-pressure and low-pulse two-piston tandem advection pump
	Maximum Pressure	42MPa
	Flow Rate Range	0.001~12mL/min
	Pressure Ripple	≤0.5%
	Flow Precision	≤0.1%
	Flow Accuracy	≤0.1%
	External Diameter of the Tube	1/16"
Valve	Contact Material of the Rotor	PEEK
	Control Mode	By Stepper motor
	Power Supply	24V (DC)
Column Heater	Operating Temperature Range	Ambient + 5 to 85 °C
	Controlling Temperature Accuracy	±0.1°C
	Temperature Stability	≤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.
Suppressor	Type	Self-Regeneration electrolytic micro-membrane suppressor
	Maximum Pressure	6.0MPa
	Non-Suppressed Chromatography	Yes/support
	Void Volume	<40μL (4mm) <15μL (2mm)

CIC-D120⁺

Specifications :

Conductivity Detector	Type	Auto-range conductivity detector
	Cell Volume	≤0.4μL
	Detection Range	0~50000μS/cm
	Resolution	≤0.0020nS/cm
	Output Voltage	-6000~+6000mv(adjustable)
	Electronic Noise	0.02nS
	Baseline Noise	≤0.001μS/cm
	Baseline Drift	≤0.01μS
	Temperature Range	Ambient +5℃~60℃
	Controlling Temperature Accuracy	±0.01℃
	Temperature Compensation	1.7 %/℃
	Maximum Pressure	10.0MPa
	Instrument Linearity	≥0.999
	Quantitative Repeatability	≤0.5%
	Qualitative Repeatability	≤0.5%
Minimum Detectable Concentration	Cl ⁻	≤0.0005ug/mL
	Li ⁺	≤0.0005ug/mL
Power Supply		150W
External Size(W*L*H)		360*500*560 mm
Net Weight		30 Kg



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