CIC-D160+

Ion Chromatograph

Features

- Built-in eluent generator can generate online eluent of hydroxide or methanesulfonic acid to achieve equal or gradient elution.
- The suppressor and the chromatograph column have real-time monitoring functions to ensure timely replacement of consumables ,It can ensure the stability and accuracy of instrument operation.
- The software has a baseline deduction function and filtering algorithm to effectively remove baseline drift and low baseline noise caused by gradient elution.
- It has the functions of pressure alarm, liquid leakage alarm, and washing liquid alarm, which can protect the safe operation of the instrument in real time, and alarm and shut down when liquid leakage occurs.
- Auto-range conductivity detector, which directly expands the ppb-ppm concentration range signal without adjusting the range.
- Gas-liquid separator, which can effectively remove the impact of bubbles on the test.
- With SHINE high-performance auto-sampler, injection control is more accurate.
- Start up and warm up. The instrument can be started up in advance according to the settings, and the operator can directly test at the unit.
- Built-in vacuum degasser to remove bubble interference in the eluent, making testing more stable.

Technical Parameter

CIC-D160+		
Specifications：		
Built-in Eluent Generator	Eluent Types	KOH/NaOH/LiOH/MSA
	Eluent Concentration Range	0.1-100mM
	Concentration Increment	0.1mM
	Flow Rate Range	0.1-5.0mL/min
	Maximum Pressure	35MPa
	Minimum Pressure	5MPa
	Accuracy of Gradient	0.15%
Vacuum degasser	Vacuum degree	-70kPa
	Internal Volume	300μL
	Maximum Flow Rate	10mL/min
	Degassing Efficiency	1.0mL/min 90%
	Degassing Volume	7.5mL
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 0–14 and reversed-phase solvents
Pump	Type	High-pressure and

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		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 ℃
	Controlling Temperature Accuracy	±0.1℃
	Temperature Stability	≤0.05℃/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)
Conductivity Detector	Type	Auto-range conductivity detector
	Cell Volume	≤0.4μL
	Detection Range	0～50000μS/cm

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Specifications：		
	Resolution	≤0.0020nS/cm
	Output Voltage	-6000～+6000mv(adjustable)
	Electronic Noise	0.02nS
	Baseline Noise	≤0.0002μS/cm
	Baseline Drift	≤0.001μS
	Temperature Range	Ambient +5℃~60℃
	Controlling Temperature Accuracy	±0.01℃
	Temperature Compensation	1.7 %/℃
	Maximum Pressure	10.0MPa
	Instrument Linearity	≥0.999
	Quantitative Repeatability	≤0.2%
	Qualitative Repeatability	≤0.5%
	Minimum Detectable Concentration	Cl-≤0.0001ug/mL Li+≤0.0001ug/mL
Power Supply		150W
External Size(W*L*H)		360*500*560 mm
Net Weight		31 Kg

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