

CIC-D300+

Ion Chromatograph



Dual-channel system, Stable and Efficient

Introduction

As a intelligent dual channel ion chromatograph, CIC-D300 plus is the latest ion chromatograph independently developed and produced by SHINE in terms of software and hardware. Each channel operates independently at the same time without mutual interference, realizing the simultaneous detection of cation and anion.

Technical Parameter

CIC-D300+		
Specifications:		
Built-in Eluent Generator	Eluent Types	Anion: KOH/NaOH/LiOH/ Cation: 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	300 μ L
	Maximum Flow Rate	10mL/min
	Degassing Efficiency	1.0mL/min 90%
	Degassing Volume	7.5mL
Sensor	Four leakage Sensor	One for anion flow path One for cation flow path One for anion eluent generator

		One for cation eluent generator
Gas-liquid separator	Two	Standard configuration Volume: ≥6mL
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 low-pulse dual-piston tandem advection pump
	Maximum Pressure	42MPa
	Flow Rate Range	0.001~12mL/min
	Pressure Ripple	≤0.5%
	Flow Precision	≤0.07%
	Flow Accuracy	≤0.07%
	Stability of Flow	≤0.09%
	External Diameter of the Tube	1/16"
Valve	Contact Material of the Rotor	PEEK
	Control Mode	By Stepper motor
	Power Supply	24V (DC)
Autosampler (Optional SHA-18i)	Channel number	Single-channel Dual-channel
	Vials	120 vial (60*60) , 2ml vial (Standard) 48 vial (24*24) , 5ml vial (Optional) 30 vial (15*15) , 7ml vial (Optional) 30 vial (15*15) , 10ml vial (Optional)
	Auto-dilution ratio	1-10000 times

	Syringe pump	250 uL
	Maximum injection volume	1000 uL
	Minimum injection volume	1uL
	Injection mode	Full loop / partial / micro injection
	Injection accuracy	± 1%
	Injection precision	≤0.5%
	Carry-over	≤0.001%
Column Heater	Operating Temperature Range	Ambient + 5 to 60 °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)
Conductivity Detector	Type	Auto-range conductivity detector
	Cell Volume	≤0.4µL
	Detection Range	0~50000µS/cm
	Detection Resolution	≤0.0020nS/cm
	Output Voltage	-6000~+6000mv(adjustable)
	Electronic Noise	0.02nS
	Baseline Noise	≤0.0002µS/cm
	Baseline Drift	≤0.001µS/30min

Operating Temperature Range	Ambient +5℃~60℃
Controlling Temperature Accuracy	±0.01℃
Temperature Compensation	1.7 %/℃
Maximum Pressure	10.0MPa
Instrument Linearity	≥0.999
Quantitative Repeatability	≤0.06%
Qualitative Repeatability	≤0.05%
Minimum Detectable Concentration	Cl-≤0.00008ug/mL Li+≤0.00005ug/mL
Mobile Phone APP	Message Push and Control Delay: < 1s Storage Time of Device Log: 7 days App Access Response Time: <10ms
LCD Touch Screen	10 inch LCD touch screen
Power Supply	150W
External Size(W*L*H)	361*504*610 (mm)
Net Weight(KG)	35

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