CIC-D300

Dual-channel system, stable and efficient

I.Features:

1. Cation and anion dual-channel system, with both channels operating independently without disturbing each other and cations and anions being detected simultaneously;

2. Eluent thermal buffer system in which eluent enters into the columns after preheated, to avoid bubbles generated from rapid heating;

3.Intelligent flow path mode, one-key operation to complete flow path switch, automatic cleaning to save time and labor;

4.Built-in low-pressure degassing technology to eliminate bubble interference for more stability;

5. The world's leading full-range series of chromatographic columns able to detect of ions with varied compositions;

6.Excellent performance to support all your applications.

II.Technical Parameter:

Ion Chromatographic Pump	Type	High-pressure and low-pulse two-piston tandem advection pump
	Maximum Pressure	35MPa(PEEK)
	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%;
	Flow Range	0.001~9.999mL/min
	Resolution of Flow Rate	0.001ml
	Flow Precision	＜0.1%
	Flow Accuracy	＜0.1%
	Pressure Pulse	≤0.5%
Suppressor	Type	Self-Regenerating electrolytic micro-membrane suppressor
	Max Pressure	6.0MPa
	Dead Volume	<50μL
Numerical-control and Electromagnetic Injection Valve	Maximum Pressure	35MPa
	Contact Material of the Rotor	PEEK

		Control Mode	By stepper motor
		Power Supply	24V (DC)
Column Heater		Operating Temperature Range	Room temperature +20~60℃(68~140℉)
		Controlling Temperature Accuracy	±0.01℃
		Allowable Deviation of Column Heater's temperature	±1℃
		Temperature Stability	≤0.05℃/h
Digital and Temperature -control Detection System	Bipolar Conductivity Detector	Type	Temperature-control and bipolar conductivity detector
		Detection Mode	Bipolar conductivity detection
		Cell Volume	≤0.8μL
		Detection Range	0~50000μS/cm
		Detection Resolution	≤0.0020nS/cm
		Output Voltage	-6000~+6000mV (adjustable)
		Electronic Noise	0.02nS
		Baseline Noise	0.0005μS/cm
		Baseline Drift	0.005μS/cm
		Operating Temperature Range	Room temperature +5~60℃(41~140℉)
		Controlling Temperature Accuracy	±0.01℃
		Maximum Pressure	10MPa
		Linear Range	≥10^5

		Instrument Linearity	≥0.999
		Quantitative Repeatability	≤0.5%
		Qualitative Repeatability	≤0.2%
		Minimum Detectable Concentration	Cl^-≤0.0001ug/mL;
Flow System		Plastic Flow Path	Made of PEEK materials
		Six-way Valve	PEEK material, pressure 5000psi; Independent automatic collecting and flow function.
Thermal Buffer System of Eluent		Before enter into the column,the eluent is preheated.By the way,can avoid the rapid heating up and the bubbles to generate,the baseline is more stable,effectively shorten the start-up balance time and improve the analysis efficiency and effect.	
		Temperature Range	25~40℃(77~104℉)
Built-in and Low-pressure Degassing Device		Vacuum Degree	-70kPa
		Maximum Flow Rate	10mL/min
		Internal Volume	30μL
		Degassing Efficiency	10mL/min 90%
Eluent Generator		Eluent Types	KOH/MSA
		Eluent Concentration Range	0.1-100mM

	Concentration Increment	0.1mM
	Flow Rate Range	0.1-5.0mL/min
	Maximum Pressure	30MPa
	Minimum Pressure	5MPa
Power Supply		350W
External Size(L*W*H*)		500*500*760 (mm)
Net Weight(KG)		48
Gross Weight(KG)		73