

## CIC-D160



**Efficient, intelligent**

### **I.Features:**

1. Built-in eluent generator, free from configuring eluent, with gradient elution available;
- 2.Modular manufacturing process to maintain excellent systemic stability;
- 3.Built-in low-pressure degassing technology to eliminate bubble interference for more stability;
- 4.Optional intelligent automatic injection system for large sample volumes, which features automatic dilution to save labor and time;
- 5.Work across a variety of detectors, to expand the scope of applications of ion chromatography.

### **II.Technical Parameter:**

Ion Chromatographic Pump		Type	High-pressure and low-pulse two-piston tandem advection pump
		Maximum Pressure	35 MPa(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
		Pressure Pulse	≤0.5%
		Flow Precision	≤0.1%
		Flow Accuracy	≤0.1%
Digital and Temperature-control Detection System	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°C (41 ~140°F)		

		Controlling Temperature Accuracy	$\pm 0.01^{\circ}\text{C}$
		Maximum Pressure	10MPa
		Linear Range	$\geq 10^5$
		Instrument Linearity	$\geq 0.999$
		Quantitative Repeatability	$\leq 0.5\%$
		Qualitative Repeatability	$\leq 0.2\%$
		Minimum Detectable Concentration	$\text{Cl}^{-} \leq 0.0001 \mu\text{g/mL}$ ;
Suppressor	Type		Self-Regenerating electrolytic micro-membrane suppressor
	Maximum Pressure		6.0MPa
	Dead Volume		$< 50 \mu\text{L}$
Flow System	Plastic Flow Path		Made of PEEK materials
	Six-way Valve		PEEK material, pressure 5000psi; Independent automatic collecting and flow function.
Built-in 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
	Accuracy of Gradient	0.15%
Power Supply	150W	
External Size(L*W*H*)	350*470*650 (mm)	
Net Weight(KG)	34	
Gross Weight(KG)	40	