

## CIC-D180



### Efficient, Intelligent, Easy to use

#### I. Features:

1. High definition touch screen, real-time display of instrument flow path and operation status.
2. The intelligent detector can detect the liquid content in the eluent bottle in real time.
3. Peristaltic pump post cleaning function is used for the cleaning of chromatographic pump and plunger rod to reduce the precipitation of buffer salt.
4. Smart phone app can master every step of analysis in real time, without the need for on duty instrument, making work easier and more efficient.
5. The built-in heating degassing unit can remove the gas produced in the eluent online, making the experimental results are more accurate.

## II. Technical Parameters:

Ion Chromatographic Pump		Type	High-pressure and low-pulse two-piston tandem advection pump
		Maximum Pressure	35 MPa(PEEK)
		Pressure Display Accuracy	$\leq 0.1$ MPa
		Flow Stability	(0.2-0.5)mL/min $\leq 3\%$ ; (0.5-1.0)mL/min $\leq 2\%$ ; > 1.0mL/min $\leq 2\%$ ;
		Flow Range	0.001~9.999mL/min
		Pressure Pulse	$\leq 0.5\%$
		Flow Precision	$\leq 0.1\%$
		Flow Accuracy	$\leq 0.1\%$
Digital and Temperature-control Detection System	Conductivity Detector	Type	Temperature-control and bipolar conductivity detector
		Detection Mode	Bipolar conductivity detection
		Cell Volume	$\leq 0.8\mu\text{L}$
		Detection Range	0~50000 $\mu\text{S/cm}$
		Detection Resolution	$\leq 0.0020\text{nS/cm}$
		Output Voltage	-6000~+6000mV (adjustable)
		Electronic Noise	0.02nS
		Baseline Noise	0.0005 $\mu\text{S/cm}$
		Baseline Drift	0.005 $\mu\text{S/cm}$
		Operating	Room temperature

	Temperature Range	+5~60°C (41 ~140°F)
	Controlling Temperature Accuracy	±0.01°C
	Maximum Pressure	10MPa
	Linear Range	≥10 <sup>5</sup>
	Instrument Linearity	≥0.999
	Quantitative Repeatability	≤0.5%
	Qualitative Repeatability	≤0.2%
	Minimum Detectable Concentration	Cl≤0.0001ug/mL;
Suppressor	Type	Self-Regenerating electrolytic micro-membrane suppressor
	Maximum Pressure	6.0MPa
	Dead Volume	<50μL
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	