

# ION CIC-D100 CHROMATOGRAPH

CIC-D100 ion chromatograph is a classic product of SHINE, which has been accepted by many customers. Based on the latest requirements of users, a newly upgraded CIC-D100 for conventional detection came into being. The new IC not only can detect anions, cations and other polar substances in different matrix samples, but also separate ions with 4 orders of magnitude difference. Compared with the previous one, it is more accurate and reliable. One key switch and intelligent maintenance functions are added to give users a better experience. It is suitable for third-party testing institutions, enterprises, environmental protection, chemical industry, mining and metallurgy and other fields.

## ▶ Auto-range Conductivity Detector

It can directly detect the signal from ppb to ppm concentration without adjusting the range;



## ▶ Eluate Preheating

By keeping the temperature of the eluate entering the column constant to ensure data stability;



## ▶ Intelligent Switch

Just click once to complete the start-up parameter setting and shutdown operation;



## ▶ Multiple Detectors Available

Standard : conductivity detector ;  
Optional : amperometric, UV, mass spectrometer



## PERFORMANCE PARAMETER

<b>High-pressure and Low-pulse Two-piston Tandem Advection Pump</b>	Maximum Pressure	42MPa ( Stainless steel )
	Pressure Display Accuracy	≤ 0.1MPa
	Flow Stability	( 0.2-0.5 ) mL/min ≤ 2% ( 0.5-1.0 ) mL/min ≤ 1% >1.0 mL/min ≤ 1%
	Flow Range	0.001 mL/min-9.999mL/min
	Pressure Fluctuation	≤0.5%
<b>Manual Sample Injector</b>	Maximum Pressure	35MPa
	Contact Material of the Rotor	peek
<b>Column Heater</b>	Controlling Temperature Range	20-60°C
	Temperature Accuracy	±0.01°C
<b>Ion Chromatographic Column</b>	Maximum Pressure	30MPa
	Caliber	4.0/3.0/2.0mm
<b>Self-regenerating Electrolytic Micro-membrane Suppressor</b>	Maximum Pressure	6Mpa
	Dead Volume	< 50μL
<b>Auto-range Conductivity Detector</b>	Cell Volume	≤ 0.8 μL
	Maximum Pressure	10 MPa
	Temperature Accuracy	Room temperature +5-60±0.01oC
	Detection Range	0-35000 μS/cm
	Detection Resolution	0.0020 nS/cm
	Detection Limit	Cl- ≤0.0005μg/mL Li+ ≤0.0005μg/mL
	Baseline Noise	≤0.001μS/cm
	Baseline Drift	≤0.02μS
	Instrument Linearity	≥0.999
	Qualitative Repeatability	≤0.5%
	Quantitative Repeatability	≤1.0%
<b>SHE-8 Amperometric Detector (optional)</b>	Mode	DC ,PULSE and SCAN
	workingTemperature	10-40°C(indoor use only)
	Range	10 pA-200 uA
<b>SHA-15 Autosampler (optional)</b>	Sample Capacity	108
	Injection Reproducibility	Full loop injection(RSD <= 0.25%) Partial loop injection(RSD <=0.5%) μL pick up injection(RSD <= 0.8%)
<b>SHA-16 Autosampler (optional)</b>	Sample Capacity	96
	Injection Reproducibility	Full loop injection(RSD <= 0.3%) Partial loop injection(RSD <= 0.5%)

