

CIC-D100



Simple, economical and practical

I.Profile

CIC-D100 ion chromatograph is a classic product of Shenghan, which has been accepted by many customers. Based on the latest needs of users, Shenghan produced a newly upgraded CIC-D100. Compared with the previous one, it is more accurate and reliable. The new IC not only can detect anions, cations and other polar substances in different matrix samples, but also separate ions with four orders of magnitude difference. Intelligent maintenance function is 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.

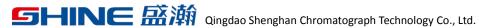
II.Technology advantage:

1.Built-in circulating 3D constant temperature technology (CN 204259917U)

Temperature stability time is less than 30 mins, ensuring the accuracy and reliability of test data.

2.The world's leading full-range series of ion chromatographic columns (CN 105126936A、CN 104788603A)

High efficiency, large capacity of the columns for detecting ions of varied compositions.



3. Self-Regenerating Electrolytic Micro-membrane Suppressor (CN 102735792A)

High pressure resistance, small dead volume, highly responsive to signals.

4. Auto-range Conductivity Detector

It can directly detect the signal from ppb to ppm without adjusting the range; Only one conductivity detector can detect anions and cations.

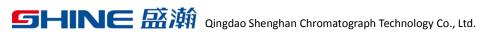
5. Observatory intelligent workstation

Integrated control; With intelligent start-up, shutdown and maintenance functions; Compatible with a variety of instruments; Customized images.

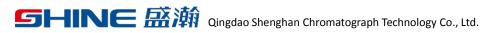
III.Technical Parameter:

lon	Туре	High-pressure and low-pulse two-piston tandem advection pump
	Maximum Pressure	35MPa(PEEK)
	Pressure Display	≤0.1MPa
	Accuracy	
Chromatograph		(0.2-0.5)mL/min≤3%;
ic Pump	Flow Stability	(0.5-1.0)mL/min≤2%;
		>1.0mL/min≤2%;
	Allowable Deviation	(0.2-0.5)mL/min , ±5%;
	of Flow	(0.5-1.0)mL/min, ±3%;
		>1.0mL/min, ±2%;
	Flow Range	0.001~9.999mL/min
	Pressure Pulse	≤0.5%
	Flow Precision	≤0.1%
	Flow Accuracy	≤0.1%
	Maximum Pressure	35MPa

2



Manual Sample Injector	External Diameter of the	1/16"
	Tube	
	Contact Material of the	PEEK
	Rotor	
	Contact Material of	
	Medium	PEEK/Ceramics
Column Heater	Operating Temperature	20~60°C(68~140°F)
	Range	
	Controlling Temperature	±0.01℃
	Accuracy	
	Allowable Deviation of	
	Column Heater's	±1℃
	Temperature	
	Temperature Stability	≤0.05°C/h
	Туре	Constant temperature
		auto-range conductivity detector
Conduction Detection	Cell Volume	≤0.8µL
	Detection Range	0~35000μS/cm
	Detection Resolution	≤0.0020nS/cm
	Output Voltage	$-6000\sim+6000$ mv(adjustable)
	Electronic Noise	0.02nS
System	Baseline Noise	≤0.001µS/cm
	Baseline Drift	≤0.02µS
	Operating Temperature	Room temperature
	Range	+5°C~60°C (41 ~140°F)
	Controlling Temperature	±0.01°C
	Accuracy Tomporature Componentian	1.7 %/℃
	Temperature Compensation	1.7 /0/ C



T	
Maximum Pressure	10.0MPa
Linear Range	≥103
Instrument Linearity	≥0.999
Quantitative Repeatability	≤1.0%
Qualitative Repeatability	≤0.5%
Minimum Detectable Concentration	Cl-≤0.0005ug/mL;
	Li+≤0.001ug/mL;
	BrO3-≤0.001ug/mL;
Plastic Flow Path	Made of PEEK materials
Six-way Valve	PEEK material, pressure 5000psi;
	Independent automatic
	collecting and flow function.
Туре	Self-Regenerating electrolytic
	micro-membrane suppressor
Maximum Pressure	6.0MPa
Dead Volume	<50μL
Power Supply	150W
rnal Size(L*W*H*)	325*400*500
let Weight(KG)	21
ross Weight(KG)	28
	Linear Range Instrument Linearity Quantitative Repeatability Qualitative Repeatability Minimum Detectable Concentration Plastic Flow Path Six-way Valve Type Maximum Pressure Dead Volume Power Supply rnal Size(L*W*H*) Iet Weight(KG)