

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:

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%;
	Allowable Deviation of Flow	(0.2-0.5)mL/min , ±5%; (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

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

	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;
Flow System	Plastic Flow Path	Made of PEEK materials
	Six-way Valve	PEEK material, pressure 5000psi; Independent automatic collecting and flow function.
Suppressor	Type	Self-Regenerating electrolytic micro-membrane suppressor
	Maximum Pressure	6.0MPa
	Dead Volume	<50μL
Power Supply		150W
External Size(L*W*H*)		325*400*500
Net Weight(KG)		21
Gross Weight(KG)		28