

# DW-CIC-D100 Ion Chromatograph

## Introduction

DW-CIC-D100 ion chromatograph is a classic product of DRAWELL, which has been accepted by many customers. It 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.

## Features

**1. Built-in circulating 3D constant temperature technology.**

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 chromatograph columns.**

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

**3. Self-Regenerating electrolytic micro-membrane suppressor.**

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

**4. Auto-range conductivity detector**

It can 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.



## Specifications

Flow Path	PEEK material	Chemically inert, metal-free PEEK flow paths, compatible with aqueous eluents of pH 0– 14 and reversed-phase solvents
Sensor	Leakage Sensor	Standard configuration
Indicator lamp	Operation indication/ Error indication	Standard configuration
Pump	Type	High-pressure and low-pulse two-piston tandem advection pump
	Maximum Pressure	42MPa
	Flow Rate Range	0.001~9.999mL/min
	Pressure Ripple	≤0.5%
	Flow Precision	≤0.1%
	Flow Accuracy	≤0.1%
	External Diameter of the Tube	1/16"
Valve	Contact Material of the Rotor	PEEK
	Contact Material of Medium	PEEK
Column Heater	Operating Temperature Range	Ambient + 5 to 60 °C
	Controlling Temperature Accuracy	±0.1°C
	Temperature Stability	≤0.1°C/h
	Columns Supported	2, 3, 4 and 5 mm I.D. Maximum length 250 mm analytical column with 50 mm guard column.

Conductivity Detector	Type	Auto-range conductivity detector
	Cell Volume	≤0.8μL
	Detection Range	0~35000μS/cm
	Resolution	≤0.0020nS/cm
	Output Voltage	-6000~+6000mv(adjustable)
	Electronic Noise	0.02nS
	Baseline Noise	≤0.001μS/cm
	Baseline Drift	≤0.02μS
	Temperature Range	Ambient +5°C~60°C
	Controlling Temperature Accuracy	±0.01°C
	Temperature Compensation	1.7 %/°C
	Maximum Pressure	10.0MPa
	Instrument Linearity	≥0.999
	Quantitative Repeatability	≤1.0%
	Qualitative Repeatability	≤0.5%
Suppressor	Minimum Detectable Concentration	Cl-≤0.0005ug/mL; Li+≤0.0005ug/mL
	Type	Self-Regeneration electrolytic micro-membrane suppressor
	Maximum Pressure	6.0MPa
	Non-Suppressed Chromatography	Yes/support
Void Volume		<40μL (4mm), <15μL (2mm)
Power Supply		150W
External Size(W*L*H)		325*400*500
Net Weight(KG)		22
Gross Weight(KG)		28