

ION CHROMATOGRAPHY CODE HLZ-1000

ANALYSIS METHODS AND CONFIGURATIONS CAN BE CUSTOMIZED ACCORDING TO INSPECTION REQUIREMENTS

LIQUID ANALYSIS



- Widely used in medicine, environment, food, chemistry, geology, research laboratories, etc.
- Can analyze anions, cations, and other polar substances in diverse matrix samples
- Auto-range conductivity detector, concentration signal can be switched from ppb to ppm
- On-line leakage monitoring, alarm and shutdown when leakage
- Intelligent switch on/off
- Gas-liquid separation, balances system pressure, ensures a smooth baseline

STANDARD DELIVERY

Main unit	1pc
Infusion pump	1pc
Conductivity detector	1pc
Auto-sampler	1pc
Anion chromatography column	1pc
Anion protection column	1pc
Anion suppressor	1pc
Cation chromatography column	1pc
Cation protection column	1pc
Cation suppressor	1pc
Analysis software	1pc
Computer	1pc
Column oven	1pc
Gas-liquid separator	1pc
Needle filter (0.22µm)	200pcs
Consumable and spare parts	1set*

^{*}Including common consumable tools such as connecting pipes and pipe joints

OPTIONAL ACCESSORY

Electrodialytic eluent generator	HLZ-EG120
Pretreatment column C18	HLZ-SPE-C18
Amperometric detector	HLC-AD150



electrodialytic eluent generator (optional)

SPECIFICATION

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Analysis material	cation	1. can analyse cations such as Li ⁺ , Na ⁺ , NH ₄ ⁺ , K ⁺ , Mg ₂ ⁺ , Ca ₂ ⁺ , etc. 2. can analyse betaine and choline chloride	
	anion	1. can analyse anions such as F ⁻ , Cl ⁻ , Br ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , NO ₂ ⁻ , SO ₄ ²⁻ , ClO ₂ ⁻ , BrO ₃ ⁻ , ClO ₃ ⁻ , etc. 2. can analyse organic acids	
Detector	type	thermostatic auto-range conductivity fetector	
	concentration range signal	adaptive signal switching for ppb~ppm concentration range	
	temperature control	control the temperature of the conductivity pool by software	
	pool volume	≤0.8µL	
	detection range	0~35000μS/cm	
	detection resolution	0.0020nS/cm	
	baseline noise	0.001µS/cm	
	baseline drift	≤0.002µS/30min	
	maximum pressure	10MPa	
	minimum detection limit	C l⁻ ≤0.0005μg/mL, Li [†] ≤0.0005μg/mL	
	instrument linearity	≥0,999	
	qualitative repeatability	≤0.5%	
	quantitative repeatability	≤1%	
	type	high-pressure, low-pulse double-plunger tandem pump	
	applicable solution	suitable for pH 0~14 eluents and reversed-phase organic solvents	
Infusion pump	maximum pressure	42MPa (material PEEK)	
	flow range	0.001~9.999mL/min	
	allowable error	≤0.25%	
	flow Stability	≤0.3%	
Suppressor	suppression technology	continuous self-regenerating micro-membrane electrical suppression technology	
	flow path	parallel regenerative flow path	
	high rejection capacity	200μeq /min (anion), 100μeq /min (cation)	
	pressure resistance	2MPa (no leakage up to 6MPa)	
	dead volume	≤40µL	
Thermostatic system	temperature range	ambient temperature +5°C to 60°C	
	allowable error	±1°C	
	stability	≤0.1°C/h	
Auto-sampler	type	triaxial auto-sampler	
	number of vial	120 positions (2mL capacity)	
	maximum Input Volume	1000μL	
	input method	full quantitative loop / partial quantitative loop / nondestructive sampling	
	injection precision	fu ll loop injection: RSD ≤ 0.3%	
Power supply		110~220V, 50/60HZ, 150W	
Dimension (LxWxH)		310×400×530mm	
Weight		22kg	

APPLICATION

