

# IC-3300

## Ion Chromatograph



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**Analytical Technologies Limited**

An ISO 9001 Certified Company

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## ►► Technical feature

### ◇ Compound and modularized design with digital display

It has a 5.7-inch Liquid Crystal Display(LCD).Voltage, Conductance, Pressure, Measurement range, Volume of flow and other operating parameters are showed on the full screen and to be memorized at real time automatically.

### ◇ Multi-detector mode

Double conductivity detector can detect anion and cation simultaneously;

UV-Vis detector can detect ultraviolet absorbed compound;

Post-Column Derivation system can detect several transition and heavy metals,  $\text{CrO}_4^{2-}$ , oxyhalogenide and so on.

### ◇ Control mode

Either software or LCD can set all of the operating parameters. The apparatus has false-operation-avoiding system, perfect data recovery capacity which can get back data in case of power failure, false operation and other accidents.

### ◇ Double suppressing function

Self-regenerative and  $\text{CO}_2$ -post-suppress mode unite together can reduce background conductance and sample's disturbance dramatically.

### ◇ Column Thermostats inside

To keep column temperature invariable accurately by operating software.

### ◇ Automatic alarm function

Eluent and pump alarm are set inside to protect the apparatus.

### ◇ Solvent processing module

There is an on-line eluent processing system, consisting of gas-liquid separator, degasser, eluent sanctifier and so on.

## ►► Major standards

### ◇ Ion Chromatographic Pump

Type:	WellChrom HPLC-Pump KP-24
Pressure range:	0~42 MPa
Volume of flow range:	0.001~9.999 mL/min
Pressure accuracy:	$\leq 0.1$ Mpa
Volume of flow accuracy (setting error):	$\text{RSD} \leq 0.1\%$
Over pressure and leak protection:	It will give an alarm and stop working in these situation.

## ►► Digital Temperature-control detection system

### ◇ Conductivity Detector

Structure:	five-polar ring passively and 316 stainless steel conductance detector
Detection Mode:	Double conductivity detection
Conductance cell size:	$\leq 0.8\mu\text{l}$
Output voltage:	-5000~5000 mV (to regulate)
Measure range:	0~30000 $\mu\text{S/cm}$ (10 level to choose)
Resolution :	$\leq 0.025\text{ ns}$
Conductance cell temperature:	5~50°C(to regulate)
Constant temperature accuracy:	$\pm 0.01^\circ\text{C}$
Baseline noise:	$\leq 0.6\%\text{FS}$
Baseline drift:	$\leq 2.0\%\text{FS}$

### ◇ Flow System

The whole plastic pipeline:	made of PEEK materials
Six-way valve:	Rheodyne electromagnetic six-way valve made in America, compression resistance of 7000 psi. Collect signals automatically.

## ►► Analytic Capability

Six-way valve: Rheodyne electromagnetic six-way valve made in America, compression resistance of 7000 psi. Collect signals automatically.

### Analytic Capability

For high capacity anion column, pH 0~14, compatible organic solvent,  $\text{F}^-$ ,  $\text{Cl}^-$ ,  $\text{NO}_2^-$ ,  $\text{PO}_4^{3-}$ ,  $\text{Br}^-$ ,  $\text{NO}_3^-$ ,  $\text{SO}_4^{2-}$ ,  $\text{ClO}_2^-$ ,  $\text{BrO}_3^-$ ,  $\text{ClO}_3^-$  etc. can be analyzed at the same time with one injection.

For high capacity cation column, lycine,  $\text{Li}^+$ ,  $\text{Na}^+$ ,  $\text{NH}_4^+$ ,  $\text{K}^+$ ,  $\text{Mg}^{2+}$ ,  $\text{Ca}^{2+}$ ,  $\text{Sr}^{2+}$ ,  $\text{Ba}^{2+}$ , Choline chloride can be separated and analyzed.

Different types of detectors can detect several transition metallic ions, heavy metallic ions and special ions.

Analyse repeatability:  $\leq 1.0\%$  (see  $\text{SO}_4^{2-}$ ,  $\text{Na}^+$ )

Linear range:  $\geq 10^3$

Minimum concentration of detection:  $\leq 0.0001\text{ }\mu\text{g/g}$  (see  $\text{Cl}^-$ );  $\leq 0.005\text{ }\mu\text{g/g}$  (see  $\text{BrO}_3^-$ );  $\leq 0.01\text{ }\mu\text{g/g}$  (see  $\text{Ca}^{2+}$ );  $\leq 0.001\text{ }\mu\text{g/g}$  (see  $\text{Cu}^{2+}$ );  $\leq 0.001\text{ }\mu\text{g/g}$  (see  $\text{CrO}_4^{2-}$ );

## ►► SHA-1 Auto-injection specifications

Host Model	SHA-1 single channel
Injection mode	Inhalation
Indicator characters	It has large sample injection table which is divided into 50 2ml vials to do sample dilution
Injection valve	Electromagnetic six-way valve
Repeatability	Whole loop RSD<0.5%
Residue	<0.01%
Maximum number of samples	The number of 2ml samples is 40.
Switching speed of the injection valve	<100 mS
Position control accuracy	<0.1 mm
Movement Mode	Rotary Type



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**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

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## Reach us @



 **Analytical**<sup>®</sup>  
Technologies Limited

HPLC Solutions   MultipleLabs   Analytical Bio-Med   Analytical Distributors   Analytical Foundation (Trust)

**Corporate & Regd. Office:**  
Analytical House, # E67 & E68,  
Ravi Park, Vasna Road, Baroda,  
Gujarat 390 015. INDIA

T: +91 265 2253620  
+91 265 2252839  
+91 265 2252370  
F: +91 265 2254395

E: [info@hplctechnologies.com](mailto:info@hplctechnologies.com)  
[info@multiplelabs.com](mailto:info@multiplelabs.com)  
[info@analyticalgroup.net](mailto:info@analyticalgroup.net)  
[info@analyticalbiomed.com](mailto:info@analyticalbiomed.com)

W. [www.analyticalgroup.net](http://www.analyticalgroup.net)  
[www.hplctechnologies.com](http://www.hplctechnologies.com)  
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