

labodam

ION CHROMATOGRAPH

LPIC-A10



www.labodam.com // info@labodam.com

Ion Chromatograph LPIC-A10

Ion Chromatograph LPIC-A10 is a light weight, portable design model with powerful data processing system. The quick ion chromatograph columns are used for rapid 5 min detection. Adopted with built-in multi-channel solvent selection valve helps in gradient elution, it shortens peak time, and improves efficiency of the chromatograph conducted. Upgraded with dual detection system (dual column for various applications), supports the needs of different industries.

Features

- Built-in column temperature control box for accurate experimental results
- Capable with Flash column for rapid detection of anions and cations
- Intelligent flow path clearing system for easy cleaning
- Real time display
- Wi-Fi connection for convenient data transfer
- Continuous, non-stop 10 hours working system
- Easy to operate

Applications

Used for on field selective analysis of organic and inorganic ions, also used in quality and research laboratories across pharmaceutical, water quality, chemical industries.

Specifications

| Chromatographic Pump | |
|--|---|
| Type | High-pressure and low-pulse double plunger tandem advection pump |
| Maximum Pressure | 35 MPa (PEEK) |
| Flow Range | 0.001 to 9.999 mL/min |
| Flow accuracy | ± 0.5 % |
| Flow Repeatability | RSD ≤ 0.1% |
| Flow stability | (0.2 to 0.5) mL/min, ≤ 3 %; (0.5 to 1.0) mL/min, ≤ 2 %; >1.0 mL/min, ≤ 2 %; |
| Built-in Heat conduction type column heater | |
| Temperature range | Room temperature +5 °C to 60 °C (41 to 140 °F) |
| Allowable deviation | ± 1 °C |
| Temperature stability | ≤ 0.5 °C/h |
| Electromagnetic injection valve | |
| Maximum pressure | 35 MPa |
| Control mode | By stepper motor |
| Power supply | 24 V (DC) |
| Digital and temperature control detection system | |
| Type | Temperature control and bipolar conductivity detector |
| Detection type | Bipolar conductivity detection |
| Cell volume | ≤ 0.8 µL |
| Measurement range | 0 to 45000 µ S/cm (adjustable) |
| Detection resolution | ≤ 0.0020 nS/cm |

Specifications

| | |
|----------------------------------|---|
| Output voltage | -6000 to 6000 mV (adjustable) |
| Temperature range | Room temperature +5 °C to 60 °C (41 to 140 °F) |
| Temperature accuracy | ± 0.01°C |
| Maximum pressure | 10 MPa |
| Baseline drift | ≤ 20 % FS/30 min |
| Baseline noise | ≤0.5 % FS |
| Instrument linearity | ≥ 0.999 |
| Quantitative Repeatability | ≤0.5 % |
| Qualitative Repeatability | ≤2 % |
| Minimum detectable concentration | Cl-≤0.005 µg/mL; Li+ ≤0.005 µg/mL |
| Flow system | |
| Plastic path flow | Made of PEEK material |
| Six way valve | PEEK material pressure 5000 psi, independent automatic collecting and flow function |
| Panel computer | |
| Display screen | 12.3 inch |
| Internal memory | 2G |
| Weight | 786 g |
| External size (L*W*H) | 440 × 226 × 420 mm |
| Net weight | 8 kg |
| Gross weight | 11 kg |

Optional Accessories

| Accessories No. | Name | Qty. |
|-----------------|------------------|------|
| 1 | Anion Column | 1 |
| 2 | Guard Column | 1 |
| 3 | Anion Suppressor | 1 |
| 4 | Spare parts kit | 1 |

Standard Accessories

| Accessories No. | Name | Qty. |
|-----------------|------------------------------|------|
| 1 | Ion Chromatography Host | 1 |
| 2 | High Pressure Advection Pump | 1 |
| 3 | Conductivity Detector | 1 |
| 4 | Anion Column | 1 |
| 5 | Anion Guard Column | 1 |
| 6 | Suppressors | 1 |
| 7 | Chromatography Workstation | 1 |
| 8 | Column Thermostat System | 1 |
| 9 | Spare Parts Kits | 1 |
| 10 | Vacuum Degassing Pump | 1 |
| 11 | Sand Core Filtration Devices | 1 |
| 12 | Pretreatment Column | 20 |
| 13 | 0.22 µm syringe filter | 200 |