

## Ion Chromatograph IC hope 1200 series



The IC can perform suppressed or non suppressed conductivity detection and ampere detection, consisting of a main box, a full PEEK dual plunger series pump, injection valve, protection column/separation column, a column temperature box with preheating function, an electrolytic self regeneration suppressor, a conductivity detector with a constant temperature device, an ampere detector, and a multi-channel data processing and instrument control software system.

The IC integrates advanced achievements in ion chromatography research both domestically and internationally, integrating high detection sensitivity, high operational stability, and a modular combination of functions. The IC can be configured with multiple detection modes according to customer testing needs: direct conductivity detection, suppressed conductivity detection, ampere detection, and conductivity ampere series detection. Suitable for testing work in various fields such as environmental monitoring, disease control, medicine, chemical engineering, metallurgy, hydrogeology, agriculture, feed, electronic industry, power, nuclear energy research, food safety, scientific research and teaching.

### Features:

1. Adopting an overall appearance and professional modular design of components, fully plastic flow path, no leaching pollution, and a complete flow path protection system;
2. The host is equipped with a 7-inch touch screen, embedded with simple and reliable control software, with full screen real-time display of working parameters such as conductivity, current, flow rate, range, pressure, backwash generator reverse control status, six way valve status, suppressor status, etc; The instrument can monitor in real time, provide real-time analysis condition parameters and analysis results, and the host can have a conductivity graphical interface function. It can display continuous sampling, waveform area, sampling period control, and other functions in real time. It can modify and collect the working parameters of various components online, and automatically perform rapid data collection and post-processing. It has the function of tracing instrument related data and operating conditions, facilitating fault diagnosis, status monitoring Spectral display and other functions;
3. One click flushing, convenient for customers to easily operate the instrument;

4. It adopts a computer interface and touch screen synchronous control mode, with comprehensive system monitoring functions, real-time monitoring of instrument operation status, revision of working parameters, and data information protection memory function for easy use;
5. Integrated appearance design, user-friendly GUI graphical navigation system, easy to operate, intuitive and easy to understand, in line with user operating habits, convenient for users to master and use;
6. Auto temperature control, which can provide constant temperature protection for the separation column during detection and analysis, and automatically raise the temperature to the appropriate temperature of the separation column at low temperatures to extend its service life;
7. Anti interference ability and rich expandability. It can be paired with UV/VIS detectors or pH, COND modules, and can be used for the analysis of unconventional samples, with multiple functions for one machine;
8. In order to improve the sensitivity and stability of the instrument and meet the diverse testing needs of users, the entire machine adopts industrial grade electrical components and advanced shielding technology;
9. Strong acid and alkali resistant joints and flow paths, with good universality and compatibility with organic solvents, improving the system's high pressure resistance and eliminating potential leakage hazards in the flow path;
10. The host can automatically recognize the signal of valve switching position and start software for automatic analysis, avoiding errors caused by manual operation;
11. The host can be maintained automatically, and the flow path can be regularly started to flush various system components to avoid pipeline crystallization;
12. Coupled with an excellent selectivity and separability chromatographic column, it can detect 9 common anions (including disinfection by-products) in water, and can also perform rapid separation of 7 common anions.

#### Parameters:

The project infusion unit adopts a high-pressure low pulse dual plunger series pump made of inert peek material, with a pump head and pipeline flow rate range of 0.001-10.000mL/min. The maximum pressure is  $\geq 35$ Mpa flow stability:  $\leq 0.1\%$  (1.0mL/min) flow accuracy:  $\pm 0.1\%$  (1.0mL/min)