

ICP-OES

Stable and Reliable



A member enterprise of Focused Photonics Inc.

Stable and Reliable

EXPEC 6000 ICP-OES



01 EXPEC 6000型 ICP-OES

Future Lab Explorer

Stable classic optical system

Classical echelle two-dimensional spectroscopic system

♦ Thermal balance optical chamber with rapid response and constant temperature ensures the instrument stability

◇ The distributed sealed argon filling design based on fluid mechanics simulation enables the optical system to quickly create a high-purity argon atmosphere, and realize ultraviolet analysis, saving time and argon

 \diamond The semi-isolated design of the host and the optical system balances the heat exchange, helping the optical system accommodate the changes in the external environment

- Vehicle applications, stable and reliable
- OPatented FSC real-time drift correction algorithm for micro-drift correction

Back-illuminated high-speed CCD acquisition device

- High UV response, requiring no UV fluorescent coating
- Megapixels for a high-resolution experience
- ♦ Three-stage TEC refrigeration design, reduce noise and obtain better dynamic range
- \diamond Professional anti-spill design, allowing to analyze the high and low contents simultaneously



EXPEC 6000 ICP-OES

• Stable and reliable full-digital self-excited all-solid-state RF power supply

 Brand-new frequency conversion design to realize automatic matching of plasma loads

 Self-excited RF power supply, providing a wider power range

◆ Water-cooled design, rapid heat dissipation, effectively improving reliability

- Internal power and temperature interlocking protection
- Power stability < 0.1%</p>

Full-digital self-excited all-solid-state RF power supply

Stable sampling system

◆ Multi-channel mass flow controller, precisely controlling argon in each channel, with a control accuracy of 0.01 L/min, thus ensuring the stability of measurement data

◆ High-precision 12-rotor 4-channel peristaltic pump ensures stable sample injection, allowing to add internal standard solution, and standard addition solution as required, which is conducive to the analysis of complex samples

◆ Full-split torch, self-collimating installation mode, suitable for different applications, only requiring to replace the center tube, greatly reducing the costs





Allow to extend various attachments



- Stable and efficient Element V software system
- A complete method library is used as the basis, reducing the time for users to find new methods

♦ Rich processing techniques, supporting various analysis methods such as the standard addition method, internal standard method, qualitative and semi-quantitative, interfering element correction, etc.

Patented self-adaptive integration algorithm, achieving better sensitivity for both high and low contents

◆ With powerful extension functions, it interfaces with the automatic sampling, sequential sampling, and database systems, to meet the analysis and testing needs of modern laboratories

Remote support



Instrument status information graph: real-time display of status information

Windows-style interface



Method library: method backup and import

Full spectrum and subarray controls

• Product series

Model	Features	Application fields
EXPEC 6000 Type D	Horizontal torch for dual observation	It is suitable for fields requiring high sensitivity, featuring the great universality
EXPEC 6000 Type R	Vertical torch for radial observation	It is suitable for applications with complex matrices, such as metal, oil, geological and mineral samples

Full-automatic heavy metal analysis system

 Scalable full-automatic sample pretreatment system, with high throughput, and easy to detect a large number of samples

- People-oriented, protecting health and saving time
- Scalable online continuous monitoring

Proven analytical technology	Automatic ignition and automatic optimization of instrument	Automatic generation of standard curve, and automatic quality control	Automatic dosage judgment of standard solution	Automatic shutdown to ensure safety
Mature element analysis technology based on ICP- MS and ICP- OES.	During sample digestion, the main machine is automatically started, optimized, and ready for analysis.	The standard solution is automatically introduced, and the quality control supports multiple options such as the detection limit, standard sample, blank, etc., to fully ensure the reliability of the data.	Ultrasonic sensors are used to detect the liquid volume, identifying the dosage of standard solution intelligently.	The equipment is automatically turned off after the experiment, to ensure the safety, and there is no need to wait for the end of the experiment.



Reliable digestion technology

The heat transfer is uniform and fast, and the high-precision temperature control system is used, greatly Automatic acid addition and standard addition

Automatic acid addition and standard addition are supported, a number of Teflon material pipelines are provided,

Automatic capping and cap removal

Full automatic capping is available, making digestion safe; full automatic cap removal is

Automatic volume determination and mixing

Accurate ultrasonic sensor ensures the accuracy of volume determination and realizes 1% constant volume accuracy control within the

Automatic sample introduction

After the volume determination, the instrument automatically filters and inject samples without manual sample

6 | Future Lab Explorer

improving	the	allowing to add the	used to	range of 5-50 ml;	transfer
parallelism digestion.	of	nitric acid, hydrochloric acid, hydrofluoric acid, and Proline acid, thus keeping the experiment safe.	discharge acid mist for the smooth digestion.	bubbling and mixing functions are used to ensure the uniformity of the solution.	

Series products of EXPEC Technology









EXPEC 5210 Series LC-MS/MS



Full-automatic heavy metal analysis system







Hangzhou EXPEC Technology Co., Ltd. No. 2466 Keji Avenue, Qingshanhu Street, Lin'an District, Hangzhou City, Zhejiang Province Zip code: 311305 Tel.: 0571-85012185 Website: www.puyukeji.cn E-mail: puyu_service@fpi-inc.com Hotline: 400 700 2658



PY20201015V4P1

Hangzhou EXPEC Technology Co., Ltd. reserves all rights. It is subjected to change without prior notice.