

Fotector series

Automated Solid Phase Extraction System

Good parallelism, high efficiency, stability, and reliability



The conventional process of manual solid phase extraction could be complex and time-consuming. As the flow rate in manual SPE might be hard for precise control, the accuracy and reproducibility of sample analysis could be easily affected by the SPE column condition. Also manually handling organic reagents could bring risk to the lab environment.

RayKol Fotector series Automated Solid Phase Extraction System can perform fully automatic solid phase extraction for enrichment and purification, designed for pre-treatment of large sample batches. With precise flow rate control and repeatable operation, it substitutes manual SPE for higher accuracy and parallelism. Also, its compact design can fit in fume hood to minimize chemical exposure to lab technicians.

Fotector series Automated SPE can be applied to any analysis required solid phase extraction, such as residual pesticides and veterinary drugs in foods, harmful organic compounds in environments, toxicological analysis of urine and blood.

Fully automatic process

Fully automatic solid phase extraction, no need for manual intervention.

Remote monitoring

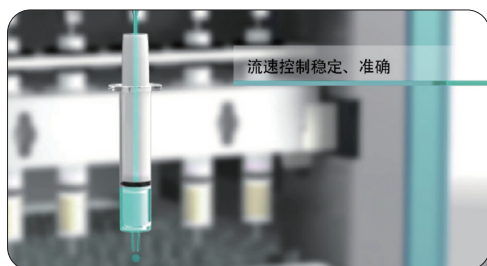
Real-time monitoring remotely, to minimize contact with hazardous chemical reagents.

Precise Control on Flow Rate

Plunger sealing

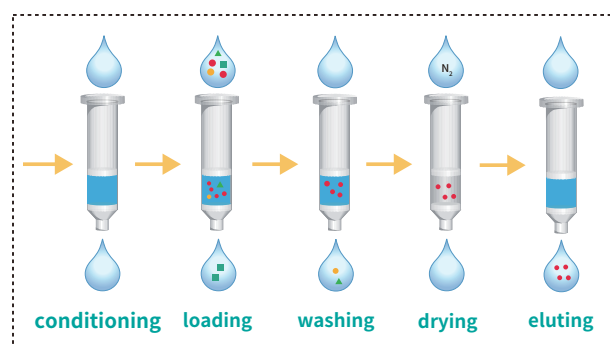
Plunger closely attached on the column packing without any gap, to ensure the accuracy of flow rate, avoid interference from samples and columns.

High-precision syringe pump for positive pressure sample loading and elution, to ensure precise control.



Continuously process for sample batch

Simultaneously process all channels per each steps; continuously process all samples per batch.



Solid phase extraction process is fully automated

Stable performance in parallelism and reproducibility

Programmed method with mechanical operation, to avoid interference from the SPE column condition.



Efficient Operation

Seperate positioning for racks

Sample rack, collection rack, cartridge rack able to position separately and automatically, to optimally reduce the duration of mechanical movement in automated SPE.

Quick solvent switching

Select and switch solvents via twelve-way valve, no additional rinsing due to solvent switch.

Stable & Reliable

Slide guide for positioning

Prevent the contamination from repeat movement of using mechanical arm.

Sample-loading needle rinsing

The needles are treated with inert plating, to avoid interference; User can self-define the rinsing mode, to avoid cross-contamination.

Graphical Software & Remote Control

Remote monitoring in real time

WIFI connection from control PC to the equipment, able to generate operating log for traceability.

Auto-detect for clogging error

Able to handle clogged sample separately without affecting the rest of sample batch. The target sample will be recovered in sample tubes to prevent analyte loss.

Product Series

Fotector-02HT Automated Solid Phase Extraction System (2 channel)

Fotector Plus Automated Solid Phase Extraction System (6 channel)

Fotector-08HT Automated Solid Phase Extraction System (8 channel)

Fotector series (PFC) Automated Solid Phase Extraction System for PFAS analysis

FS360 Automated Solid Phase Extraction System

Various Modules, Wide applications

Applicable to immunoaffinity column

Compatible with immunoaffinity columns for various toxin analysis, able to automatically remove caps for such columns.

Large-volume sample module

Able to change between standard sample module to large-volume sample module by just replacing the sampling kit, to continuously load max. 60 of large-volume water samples in environment analysis.

Flexible in methods

Able to run different SPE methods on the same batch continuously, flexible for forensic labs.

Batch extraction

Online operation via expanded channels



More Pressure

Up to 0.8Mpa pressure
when push in SPE column

Less Time

No extra time required for mechanical
movement, just go through valve switching

Better Sealing

Plunger seal with o-ring to avoid leakage

RayKol Fotector series Automated Solid Phase Extraction System
Accurate and precise flow rate

Dedicated to be a leading supplier in smart laboratory



RayKol Group

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