



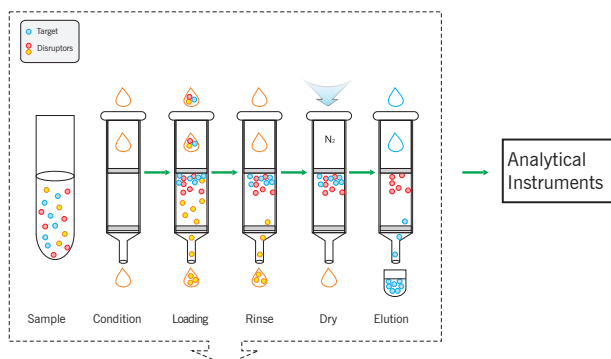
# **Fotector Plus**

## **Automated Solid Phase Extraction System**

## Product Overview

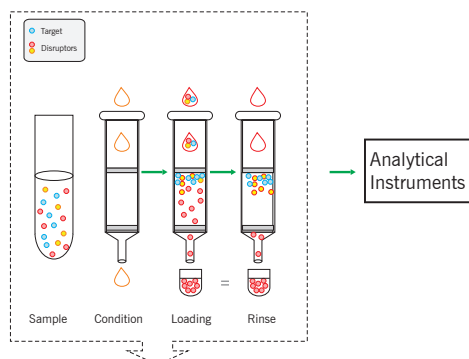
Fotector Plus is a fully automated sample preparation system using commercially available SPE (Solid Phase Extraction) cartridges. By taking the advantage of the nature of adsorption characters of different SPEs, Fotector Plus can either be used to extract target compounds, or to remove impurity or interfering compounds in the sample. These two functions are depicted in the following two figures:

### Target compound adsorption model



Fotector Plus automatically complete the above steps

### Impurity adsorption model



Fotector Plus automatically complete the above steps

Fotector Plus is an ideal instrument for handling large quantity of samples requiring fully automated systems for sample preparation work. The resulting extracted, purified, and concentrated extracts can be injected directly into gas/liquid chromatography, or mass spectrometer for trace organic, pesticide residues, veterinary drug residues, and food additives analyses.

The types of samples Fotector Plus has been demonstrated successfully include: food, beverage, blood, urine, soil, and water samples. The system can also be used to prepare pharmaceutical and biological samples, as well as for samples analyzed for regulatory inspection and compliance analysis for legal purposes.



Fotector Plus is capable of running 60 or more samples continuously without any human intervention (including replacement of samples and SPE column). It completely meets the requirement for “fully automated, high throughput processing” purpose.

## System Features and advantages

Features	advantages
6 channels simultaneously for condition, Loading, rinse, dry, elution	Multiple channels with faster sample handling.
Using six high-precision syringe pumps	Accurate control of the liquid flow rate in each step with high accuracy and high reproducibility.
Unique column plunger seal technology	The plunger close to the SPE column packing. The liquid flow rate setting is as same as the actual liquid flow through the SPE column, to avoid the solvent are mixed, and ensuring Recovery of the sample and Parallelism.
Fit to various sizes of SPE column	Applicable 1mL, 3mL, 6mL, 12mL extraction columns of different manufacturers, to meet different application requirements.
Optional sample tubes for variety of specifications	20mL, 80mL etc.
Optional collect tubes for variety of specifications	15mL, 30mL, 60mL, 100mL etc.
Column with a string function	Purification meets the requirements of complex sample matrix.

## Performance indicators

- Functional requirements: for food, beverage, water, blood, urine and soil sample trace organics extraction under liquid, solid or semi-solid sample phases, especially the analysis of trace organic compounds in food. It is the best sample preparation device for GC, LC and GC/MS analysis. It fully automates the entire process of solid-phase extraction (condition, Sample loading, rinsing, drying and elution).
- 6 channels simultaneously for condition, Loading, rinse, dry, elution.
- Utilize six high-precision syringe pumps to provide positive pressure
  - Accurate control of the flow speed in each step and each channel.
- Unique column plunger seal technology
  - With the plunger positioned close to the SPE column packing, the flow rate set in the syringe pump is just the same as the actual liquid flow rate through the SPE column, ensuring high parallelism and reproducibility.
- Immunoaffinity column function
  - By controlling the movement of the plunger, the Fotector Plus is able to automatically remove the cap of the immunoaffinity column. It is only instrument that can continuously run universal immunoaffinity columns.
- Large volume loading function
  - By utilizing 6 twelve ports valves, the instrument can continuously handle 30 large volume samples.
- Fit to various sizes of SPE column
  - Applicable 1mL, 3mL, 6mL, 12mL extraction columns of different manufacturers, to meet different application requirements.
- Optional sample tubes of different sizes eg 20mL, 80mL etc.
- Optional collection tubes of different sizes eg 60mL, 100mL etc.
- Column with string function.



## Fotector -02HT



### Fotector-02HT - High-throughput Automated Solid-phase Extraction

Fotector-02HT is the basic unit of Fotector series, it is a two-channels automation which can continuously run 20 samples. The utilization of WIFI connection and 'one to N' software mode allows you to freely extend your throughput and increase laboratory productivity. Also Fotector-02HT can also be used to link with Fotector Plus, providing more possibility and flexibility.

Fotector series in conjunction with Autoeva series

The sample racks and collection racks used in Fotector Plus can be customize to accommodate different test tube, the same tube and racks can also be used in Autoeva-60. The conjunction of the two instrument provide possibility



## Reeko Overview

Reeko Instrument USA is a high-tech company dedicated to designing and developing first-class lab automation solutions for environmental science, food safety, agriculture, pharmaceutical and forensic research. The company was founded on its ability to manufacture superior sample preparation instrument for organic chemical analysis. Each of the system is optimized to customer's specific protocol requirements, including labware and kit chemistry, providing unparalleled flexibility.



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