

Solid Phase Extraction [SPE]

SPE is widely used for many sample matrix types such as water, beverages, serum, urine, milk, pharmaceuticals and food products.

The main purposes of solid phase extraction are:

- **Sample extraction:** a tool that allows you to extract and separate a large range of compounds from one sample.
- **Sample cleanup:** a tool that will remove interferences and improve quantification of target compounds.
- **Sample concentration:** it is effective for concentrating trace levels of compounds of interest onto the SPE cartridge by passing large volumes of sample matrix across the cartridge and then eluting the compounds of interest off of the SPE cartridge.

FMS offers fully automated systems that perform multiple unattended Solid Phase Extractions simultaneously:

- **PowerPrep™ SPE Systems**
 - The TurboTrace™ Parallel SPE
 - The EconoTrace™ Parallel SPE

The PowerPrep SPE systems are designed to streamline your laboratory's workflow and increase productivity by automating the manual steps in your sample preparation process.

The PowerPrep SPE systems are the only SPE systems that combine extraction, drying and concentration into one step - providing a truly automated total sample prep solution for the laboratory. Simply load samples onto the PowerPrep SPE systems to trigger the automated extraction process. After loading the sample onto the SPE cartridge, the drying step is accomplished using Nitrogen. This drying step replaces manual techniques.

The analytes of interest are then eluted directly to the SuperVap Concentrator where the concentration process automatically brings the extract to final volume and places it directly into an autosampler vial, ready for final analysis.

Automating these processes into one step ensures the highest quality results in shortest time and eliminates both human error and the possibility of contamination.

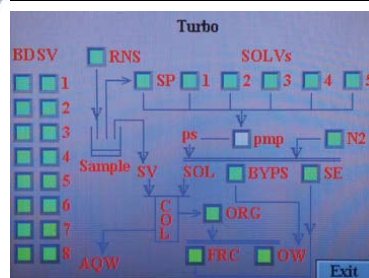
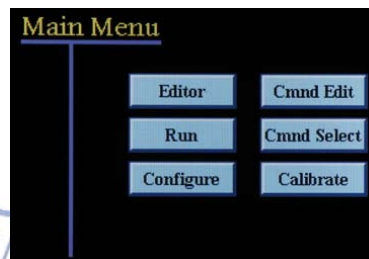


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■ Features on both systems

- Compact and user friendly design.
- Integrated touchscreen operation.
- Runs up to 8 samples simultaneously.
- Sample sizes range from 2 mL to 8 L and use the same bottle the sample was collected in.
- Automatic sample bottle rinse.
- Dispenses up to six solvents using an HPLC pump to deliver precise volumes and flow rates for conditioning and elution.
- Designed to isolate analytes of interest from a wide variety of liquid matrices such as urine, blood, water, milk, beverages.
- Sample loading rates are programmable.
- Can concentrate samples up to 250 mL directly to a GC vial.
- Compatible with all standard formats of SPE cartridges and columns on the market today. For guaranteed results, especially when dealing with low limits of detection, we recommend FMS prepacked columns and cartridges.
- Sample Processing Modules can be easily swapped out to perform cleanup column chemistries allowing the lab to multipurpose the PowerPrep Parallel SPE system to automate other sample prep processes.



■ TurboTrace™ Parallel SPE



- A vacuum or positive pressure pump is used to load samples onto the SPE cartridges and columns at unprecedented speeds and it easily handles both clean and tough sample matrices
- Sample Liquid Level Sensor to detect the sample loading endpoint
- Expandable from 1 to 8 modules

■ EconoTrace™ Parallel SPE



- A positive pressure pump is used to load samples onto the SPE cartridges and columns at precise, reproducible speeds and it easily handles clean sample matrices
- Runs 2 samples per module simultaneously
- Expandable from 1 to 4 modules

■ Both PowerPrep SPE automated sample preparation systems

- **reduce errors:** One-step automated SPE and concentration eliminates human error, saves labor costs and reduces solvent consumption while increasing your sample throughput.
- **are fully automated:** They hyphenate the entire sample prep process - extraction, drying and concentration steps into a one step program.
- **operate at high speed:** The fastest automated sample processing available for SPE cartridges and columns.
- **comply with existing methods:** that require vacuum, positive pressure pumping for the precise delivery of sample and solvents.
- **provide easy documentation:** Programs and stores an unlimited number of methods and runs on an SD card allowing easy method transfer.
- **are operated by easy-to-use software:** through touchscreen interface.

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