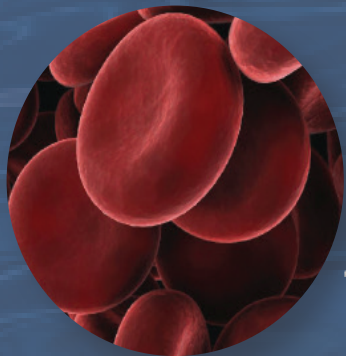


TurboTrace[®] SPE System

Automated Solid Phase Extraction System

Drinking Water & WasteWater



From Sample to Vial



- Modular and Expandable from 2 to 8 Samples
- Configurable for Every Budget
- Reduce Costs, Human Error and Labor
- High Throughput Extraction and Concentration

TurboTrace[®] System

Positive Pressure and Vacuum Dual Pump

Based Automated SPE

The TurboTrace a dual pump technology Parallel SPE system is a versatile powerhouse, incorporating a vacuum or positive pressure pump to load samples for compliance with all SPE methods. It uses positive pressure pumping for precise and accurate delivery of conditioning, washing, and elution solvents, a vacuum pump is used to load difficult samples with heavy paritucate. It is specifically designed to isolate analytes of interest from a wide variety of liquid matrices such as urine, blood, water, milk, and beverages, this system can handle sample sizes ranging from 2 mL to 8L, using the same bottle the sample was collected in. Sample loading rates are programmable, and a liquid sensor detects when the sample has been loaded, triggering the system to initiate the next steps. The TurboTrace, Parallel SPE system can concentrate samples if needed, delivering them directly to the Super-Vap Concentration system for final volume, and is designed to use all standard formats of SPE cartridges on the market today. For guaranteed results, especially when dealing with low limits of detection, we recommend FMS preppacked cartridges.



TurboTrace SPE Extraction Features:

Reduces Errors

- One-step automated SPE and concentration eliminates human error, saves labor costs, and reduces solvent usage while increasing sample throughput.

Fully Automated

- Hyphenates the entire sample prep process: extraction, drying, and concentration steps--into a one-step Sample Preparation Workflow.
- Runs up to 8 samples simultaneously
- Sample Liquid Level Sensor to detect when the Sample has finished loading
- Automatic Sample bottle rinse
- Concentrates samples directly to a GC or LC vial

High Speed

- The fastest automated sample processing available for SPE cartridges
- Run up to eight samples simultaneously.
- Vacuum for fast loading of large volume difficult sample matrices

Versatile

- Handles a wide range of sample sizes and all matrix types
- Sample Sizes 2 mL to many liters
- Sample Liquid Level Sensor to detect when the Sample has finished loading
- Expandable from 1 to 4 modules, 2 samples per module

Efficient

- Uses all SPE cartridge sizes
- Positive pressure pumping for loading small volume samples and clean samples. Vacuum for dirty samples

Nitrogen and Vacuum drying

Compliant

- Complies with existing methods that require vacuum, positive pressure pumping for the precise delivery of sample and solvents
- Dispenses up to six solvents using an HPLC pump to deliver precise volumes and flow rates for conditioning and elution

Easy Documentation

- Programs and stores an unlimited number of methods and runs on an SD Card Easy method transfer

Easy-to-use software

From Sample to Final Extraction and Concentration for Drinking Water and Waste Water Analysis

Benefits of TurboTrace Automated Solid Phase Extraction:

REDUCES ERRORS

- One step automated SPE and concentration eliminates human error, saves labor costs and reduces solvent usage while increasing your sample throughput.
- Put the sample on the system and get the final extract automatically delivered and concentrated ready to analyze in GC vial eliminating the majority of human intervention

FULLY AUTOMATED

- Hyphenates the entire sample prep workflow: extraction, drying and concentration step into a one-step workflow.
- Concentrates samples directly to a GC vial
- Programmable, Automatic Sample bottle rinse

HIGH SPEED

- The fastest automated sample processing available for SPE cartridges and columns
- Vacuum for fast loading of large volume samples as well as samples with heavy particulates
- Modular and Scalable – Run up to 8 samples simultaneously.

VERSATILE

- Handles a wide range of sample sizes as well as clean and dirty matrix types
- Samples with heavy particulate
- Sample Sizes 2 mL to Unlimited
- Expandable from 1 to 4 modules
- Run a variety of cartridges with different sorbents and all cartridge sizes
- Wash with different solvents or solvent mixes

EFFICIENT

- Uses all SPE cartridge sizes
- Positive pressure pumping for loading small volume samples
- Vacuum for large volume, high speed sample loading
- Nitrogen or Vacuum Cartridge drying

COMPLIANT

- Complies with existing methods that require vacuum, positive pressure pumping for the precise delivery of sample and solvents
- Dispenses up to 6 solvents using an HPLC pump to deliver precise volumes and flow rates for conditioning, elution and bottle rinse.

EASY DOCUMENTATION

- Programs and stores an unlimited number of methods and runs

EASY-TO-USE SOFTWARE

- Graphical SPE step indicator icons keep users informed

DIRECT-TO-VIAL CONCENTRATION

The SuperVap evaporation/ concentration system is the ideal solution for performing the final evaporation and concentration step. Supervap evaporates the extracts and delivers final extracts to tube with GC vial ready for GC or LC/MS analysis.



Supports EPA and other Methods

500	Series
608	Chlorinated Pesticides and PCB's
1613	Dioxin
1664A	Oil and Grease and SGT-HEM
1668A	Toxic PCB's by Isotope Dilution and GC/MS
1694	Pharmaceutical and Personal Care Products
8061	Phthalate esters
8081	TCLP Organochlorine pesticides
8082	PCBs
8095	Explosives
8141	Organophosphorus pesticides
8321	TCLP Phenoxyacid herbicides
8330	Nitroaromatics / Nitramines

Specifications

Dimensions: 15" W x 18" D x 35" H

Weight: 65 lbs. Control Module and Extraction module for 2 samples

Gas Requirements: Nitrogen - 20 PSI minimum

Vacuum Requirements: 25" Hg minimum

Pump: Piston Displacement

Flow Rate: 0.2 to 15ml/minute

Electrical Input: 110/220 Volts, 50/60 HZ

Applications

- Agricultural and Animal Health
- Food Safety and Packaging Monitoring
- Drinking Water
- Waste Water
- Blood/Serum
- Milk and Beverages
- Power Utility

