



EconoTrace™ Parallel SPE System

Automated extraction, drying and concentration in one step

The EconoTrace Parallel SPE System streamlines your laboratory's workflow and increases productivity by automating manual steps in your sample preparation process. It automates existing manual SPE techniques and replaces older manual Liquid-Liquid Extraction techniques and outdated semi-automated instruments.

The EconoTrace Parallel SPE system is the only SPE system that combines extraction, drying and concentration into one step — providing a truly automated total sample prep solution for the laboratory. Simply load samples onto the EconoTrace Parallel SPE system to trigger the automated extraction process. After loading the sample onto the SPE cartridge at the set flow rate, the drying step uses nitrogen, replacing 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 in one step ensures the highest quality results in the shortest time and eliminates both human error and the possibility of contamination.



The EconoTrace 3 system runs six samples in parallel and provides direct-to-vial concentration.

Key Benefits

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 one process.

Runs up to eight samples simultaneously.

Automatic sample bottle rinse.

Concentrates samples up to 250 mL directly to a GC vial.

High Speed

The fastest automated sample processing available for SPE cartridges and columns of all sizes.

Positive pressure pumping for fast, simultaneous loading of samples.

Versatile

Handles a wide range of sample sizes and all matrix types.

Sample sizes from 2 mL to 8 L.

Expandable from one to four modules — two samples per module.

Efficient

Uses all SPE cartridge and column sizes.

Positive pressure pumping for loading samples.

Nitrogen drying.

Compliant

Complies with existing methods that require 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 sample loading, 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 touch screen.

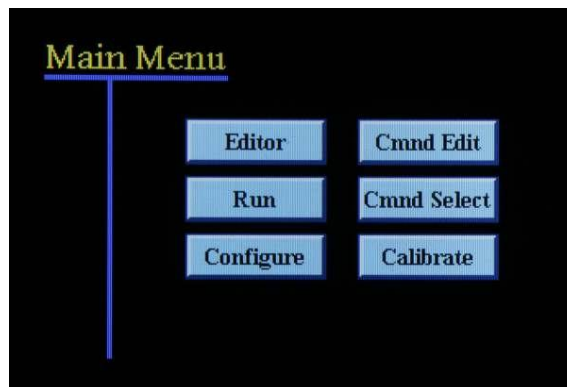
System Design and Performance

The EconoTrace Parallel SPE system uses positive pressure pumping for precise and accurate delivery of the sample as well as conditioning, washing and elution solvents. The system is specifically designed to isolate analytes of interest from a wide variety of liquid matrices such as urine, blood, water, milk and beverages. Sample sizes range from 2 mL to 8 L and use the same bottle the sample was collected in. Sample loading rates are programmable. A positive-pressure pump loads samples onto any SPE cartridge and column available on the market, and it easily handles both clean and tough sample matrices.

The EconoTrace Parallel SPE/SuperVap system concentrates samples up to 250 mL directly to a GC vial. For reliable results, especially when working with low limits of detection, we recommend FMS cartridges. Sample Processing Modules can be easily swapped out for service, so your lab will experience zero downtime.



The EconoTrace System is expandable from one to four modules.



System control is accomplished via an easy-to-use touch screen.



The SuperVap™ Concentrator automatically brings the extract to final volume in an autosampler vial, ready for final analysis. Automatic time-based or endpoint detection shuts off nitrogen for each vessel.



Concentration / evaporation vessels in 500 μ L and 1 mL, direct to a GC vial or to dryness.

Specifications

EconoTrace™ Parallel SPE System	
Dimensions	15" W x 18" D x 26" H
Weight	30 lbs.
Gas Requirements	Nitrogen — 20 PSI minimum
Pump	Piston Displacement
Flow Rate	0.2 to 15 mL/minute
Electrical Input	110/220 Volts, 50/60 Hz
Controller	Integrated Touch Screen Control

SuperVap™ Concentration System	
Dimensions	12" W x 13" D x 12" H
Weight	20 lbs.
Gas Requirements	Nitrogen — 20 PSI minimum
Electrical Input	110/220 Volts, 50/60 Hz
Controller	Integrated Touch Screen Control
Bath	Dry

Ordering Information

Part Number	Description
EconoTrace / 1	EconoTrace 2 for running 2 samples simultaneously
EconoTrace / 2	EconoTrace 4 for running 4 samples simultaneously
EconoTrace / 3	EconoTrace 6 for running 6 samples simultaneously
EconoTrace / 4	EconoTrace 8 for running 8 samples simultaneously

Consumables

Part Number	Description
SPE-BT1	SPE Sample Bottle, 1 L
SPE-BTRC	SPE Sample Bottle Rinse Cap
SPE-ADP-1	SPE 1 mL Cartridge Adapter
SPE-ADP-3	SPE 3 mL Cartridge Adapter
SPE-ADP-6	SPE 6 mL Cartridge Adapter
SPE-ADP-20	SPE 20 mL Cartridge Adapter
SPE-ADP-35	SPE 35 mL Cartridge Adapter
SPE-PRE-20	SPE Pre-filter Cartridge
SPE-CAR1-C18	SPE Cartridge, 1 gram C ₁₈
SPE-CAR5-C18	SPE Cartridge, 5 gram C ₁₈
SPE-CAR1-DVB	SPE Cartridge, 1 gram DVB
SPE-CAR5-DVB	SPE Cartridge, 5 gram DVB
TFE-TUB-071GR	Teflon Tubing Assembly, flanged, 7"
TFE-TUB-091GR	Teflon Tubing Assembly, flanged, 9"
TFE-TUB-161GR	Teflon Tubing Assembly, flanged, 16"
TFE-TUB-241GR	Teflon Tubing Assembly, flanged, 24"
PVAP-TUB-200M	Evaporator Glass Tubes
PVAP-TUB-200M	GC Evaporator Glass Tubes, Std-GC
PVAP-UNI-TF	Teflon GC Vial Union