

AUTOMATED SOLID PHASE EXTRACTION (SPE) AND EVAPORATION SYSTEM



Automated Solid Phase Extraction (SPE) and Evaporation System - ToronSPE™ Eva Series

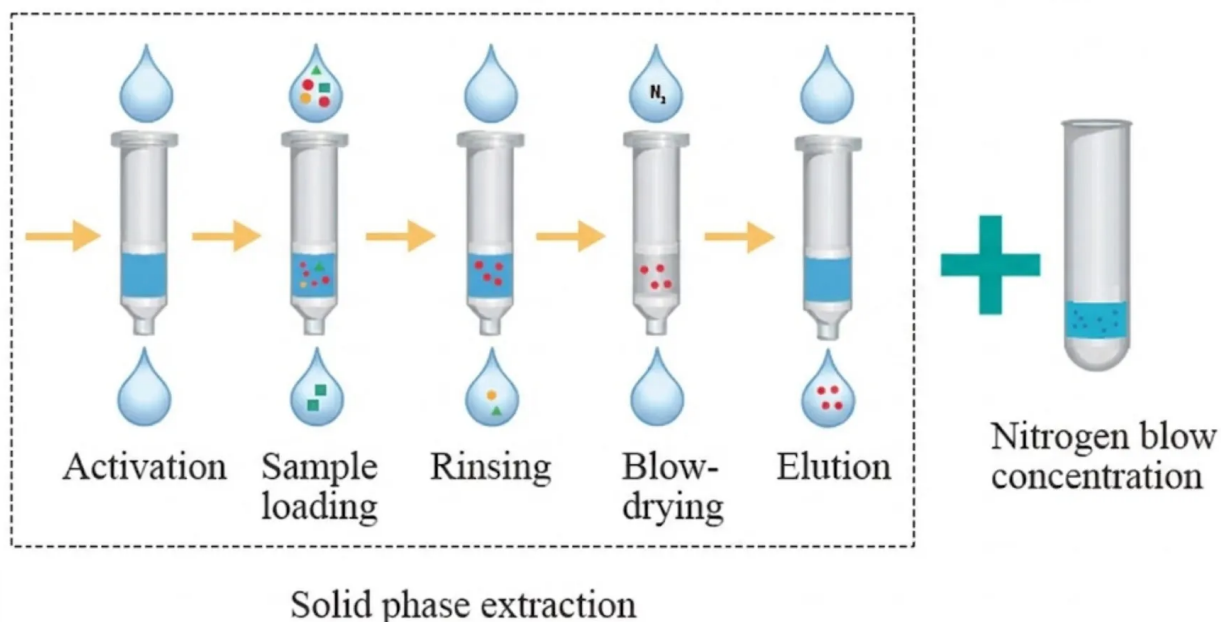
ToronSPE™ Eva Series is an Automated Solid Phase Extraction (SPE) and Evaporation System that integrates SPE cleanup with nitrogen blowdown concentration in one workflow. It automatically performs conditioning, sample loading, rinsing, drying, and elution, then concentrates the eluate with solvent replacement and recycles it through the cartridge—reducing manual handling and improving repeatability.

APPLICATIONS

Automated Solid Phase Extraction (SPE) and Evaporation System - ToronSPE™ Eva Series Applications



- Food testing (pesticide/veterinary residues): Automates SPE cleanup and concentration to support consistent trace-level residue workflows for fruits, vegetables, and animal-derived foods.
- Environmental monitoring (large-volume water samples): Designed for enrichment of organic pollutants from large water volumes, with stable flow control to improve recovery and method consistency.
- Clinical & toxicology (blood and urine): Supports preparation of viscous biological samples where reproducible purification and concentration are needed before analysis.
- Pharmaceuticals, herbal products, and cosmetics: Helps standardize sample pretreatment for complex matrices that require purification and analyte enrichment prior to instrumental testing.



FEATURES

Automated Solid Phase Extraction (SPE) and Evaporation System - ToronSPE™ Eva Series Key Features

- Integrated SPE + nitrogen evaporation in one platform: Automates conditioning through elution and then performs continuous evaporation, solvent replacement, and re-pass through the cartridge—minimizing manual intervention.
- High-throughput, batch processing: Runs up to 8 channels simultaneously and supports continuous processing of up to 80 samples without manual monitoring.
- Accurate flow control for reproducible results: High-precision syringe pump with plunger flow path minimizes dead volume and makes the set pump rate equal to the column flow rate, improving result consistency across different sample types.
- Excellent chemical compatibility: Sample-contact tubing is designed to avoid introducing impurities or adsorption, supporting strong recovery performance.
- Independent multi-axis modules: Each module operates independently to reduce unnecessary mechanical waiting time and improve overall efficiency.
- Smart software + real-time monitoring: Graphical interface, flexible method/sequence editing, real-time status display, automatic monitoring logs, solvent warnings, and rack identification support controlled, traceable operation.
- Consistent nitrogen blowdown design: Variable-diameter nitrogen needle design helps maintain central alignment and consistent airflow across positions.
- Safer, enclosed operation: Enclosed structure with independent exhaust helps reduce solvent vapor exposure; transparent cover supports visual checks during runs; floor-standing compact design reduces dependence on a fume hood footprint.

TECHNICAL SPECIFICATIONS

Automated Solid Phase Extraction (SPE) and Evaporation System - ToronSPE™ Eva Series Technical Specification

Parameter	Specification
PFAS Applicable	Available in PFC main unit, PEEK tubing
SPE Extraction channel	8
SPE cartridge size	3mL, 6mL, 12mL, 20mL
Sample capacity	48, 80
Sample volume	10mL to 20L
Sample tube	10/20/60/80mL glass tubes, 15/50mL centrifuge vials
Solvent capacity	6
Pipette tip sample loading	Available in 48 positions of 1mL tips for sample loading
Software interface	Touch screen control
Dimension	100cm x 65cm x 70cm
Weight	155kg
Voltage	200 to 240V, 50/60Hz (110V is also available)
Operating temperature	10 to 40°C
Operating humidity	20 to 80%



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