

ORGANIC SAMPLE PREPARATION SPE2000



DSP  **systems**
The missing link in your laboratory!

THE NEXT-GENERATION SOLUTION FOR SPE EXTRACTION

The SPE2000 is a **fully automated, multi-channel solid phase extraction (SPE) system** designed to simplify and accelerate sample preparation across diverse fields, including environmental, food, chemical and pharmaceutical analysis. Unlike traditional manual SPE devices, the SPE2000 enables sequential multichannel

processing to dramatically boost laboratory throughput. By automating every step of the SPE workflow, it delivers unmatched consistency, efficiency and reproducibility in high-demand analytical environments, with high recovery rates.

- » Process up to 60 samples (6-channel) or 80 samples (8-channel) simultaneously.
- » Compatible with 1, 3, 6 mL Cartridges
- » Sample initial volume from 1 up to 4 mL liters
- » Collection volume from 1 mL up to 60 mL
- » Rack is automatically identified, reducing the errors resulting from incorrect manual operation
- » Four-way waste liquid discharge
- » Smart workflow automation with real-time updates
- » Intuitive touchscreen interface for simplified control



TECHNICAL FEATURES

■ MULTIPLE CHANNEL OPTIONS

Available in 6 and 8 channel models to suit your throughput needs.

■ HIGH SAMPLE CAPACITY

Process up to 60 samples (6-channel) or 80 samples (8-channel) simultaneously.

■ VERSATILE SPE SUPPORT

Compatible with 1, 3 and 6 mL extraction cartridges.

■ FLEXIBLE VOLUMES

Sample volumes from 1 mL to 4 L; collection volumes from 1-60 mL.

■ AUTOMATIC RACK RECOGNITION

Reduces errors by identifying racks automatically.

■ MULTI-SOLVENT SUPPORT

Use up to 8 different solvents simultaneously.

■ BUILT-IN FILTRATION

Automatic online filtration handles particle-containing samples effortlessly.

■ USER-FRIENDLY TOUCH CONTROL

11.6-inch Android touch screen for intuitive, fast operation.

■ EFFICIENT WASTE MANAGEMENT

Four-way waste liquid discharge system.

■ INTELLIGENT MONITORING

Tracks solvent volume, gas pressure and system status in real time.

■ SMART WORKFLOW MANAGEMENT

Automatically calculates method and batch durations, continuously updating remaining run time.

■ EXCELLENT ANTI-CLOGGING PERFORMANCE

Equipped with pressure-responsive syringe pumps that increase thrust as needed, enhancing resistance to clogging.

TECHNICAL SPECIFICATIONS

Number of Channels	6 / 8 channels
Dimensions (WxHxD)	642x658x472 mm (6-channel model) - 774x658x472 mm (8-channel model)
Weight	58 kg (6-channel model) - 68 kg (8-channel model)
Power Supply Voltage	AC 220 V \pm 22 V, 50/60 Hz \pm 1 Hz
Power Consumption	180 VA (Max)
Nitrogen Input Pressure	0.1 MPa ~ 0.5 MPa
Sample Loading Flow Rate	0.1 mL/min ~ 100 mL/min
Solvent Ports	8 Channels
Sample Volume	from 1 mL to 4L
Extraction Cup Adapter Cartridges	Compatible with 1, 3 and 6 mL volume
Collection Vials	Compatible with 15 mL tubes, 20 mL glass tubes, 40 concentration cups, 50 mL tube, 60 mL glass tubes
Operating Environment	For indoor use only; operating conditions: 15C ~ 30°C, relative humidity \leq 80% RH, altitude below 2000 m, free from radiation, vibration, strong magnetism

KEY INTELLIGENT POINTS

- » **Intelligent Monitoring Functions:** including solvent volume monitoring, gas pressure monitoring, and communication status monitoring.
- » **Intelligent Checking Functions:** intelligently checks sample and collection volumes, tube specifications, detects position conflicts, and allocates spray positions for large-volume samples.
- » **Intelligent Alert Functions:** provides intelligent error codes and messages, and automatically pauses or stops the batch when faults occur.
- » **Intelligent Timing Functions:** automatically calculates method and batch durations and updates remaining run time in real time.



ACCESSORIES THAT MATTER

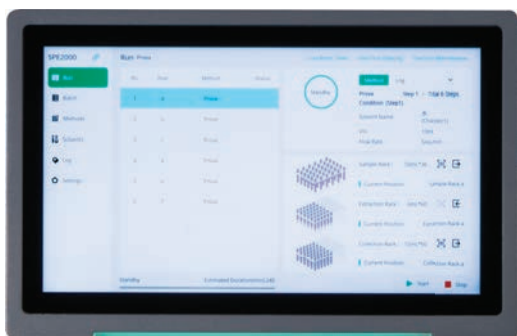
Expand the functionality and efficiency of the SPE2000 with a dedicated range of precision-engineered accessories.

- » Rack for 1 mL SPE Cartridge
- » Rack for 3 mL SPE Cartridge
- » Rack for 6 mL SPE Cartridge
- » Rack for 3-6 mL SPE Cartridge
- » Rack for Immuno affinity Cartridge
- » Large-Volume Sample Rack with Spray Assembly



USER FRIENDLY INTERFACE

The LabTech SPE2000 is equipped with intuitive, user-friendly software that provides complete system control and streamlined workflow management.



- » SPE2000 Software to get full, intuitive control over the system.
- » Batch table menu area to efficiently organize and monitor multiple samples.
- » Step-by-step method programming to customize each extraction stage for precise, reproducible results.
- » Solvent level monitoring to get real time updates.

MAIN APPLICATIONS



- Pesticide
- Food Safety
- Mycotoxin Analysis



- PFAS Analysis
- EPA 533, 537 & 1633
- VOCs and SemiVocs
- Wastewater



- APIs
- US Pharmacopeia
- Natural Products



- Oil and grease
- PAHs
- Naphthenic Acids

LabTech

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LabTech, your reliable laboratory solution provider.

LabTech is a leading manufacturing company with skill and passion devoted to provide advanced laboratory solutions to the analytical community. We are located in Sorisole, northern Italy, with facilities in USA and China. Incorporated with global branches, LabTech is organized into R&D, production, marketing & sales and customer support. Major LabTech products include organic/inorganic sample preparation systems, laboratory cooling/heating/temperature control equipments, analytical instruments, gas generators, laboratory centrifuges and liquid nitrogen generators. With knowledgeable scientists and experienced engineers, our R&D team has developed and released a series of new lab equipments and instruments dedicated to the modern analytical laboratories. With all of these accomplishments and our endless research and development efforts, we are proud to be your professional partner.



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