

ORGANIC SAMPLE PREPARATION



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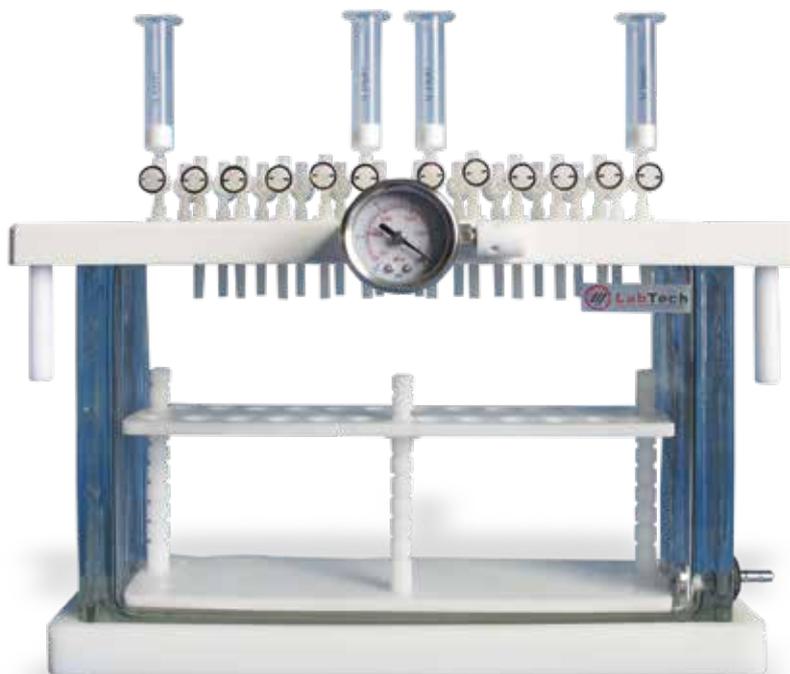
WSPE MANUAL VACUUM MANIFOLD

SPE Process control of the flow rate is critical to guarantee reproducible extractions.

Differently than any other systems, the LabTech WSPE vacuum manifold features a patented valve system able to grant precise flow control through each cartridge. The WSPE vacuum manifolds allow to process up to 12 (WSPE12) or 24 (WSPE24) samples simultaneously.

TECHNICAL FEATURES

- » Glass base resistant to solvents preventing condensation and discoloration
- » Anticorrosion cover to avoid deformation under high-pressure working conditions
- » High quality and reliable PTFE rack
- » Screw-type solvent resistant vacuum regulator for accurate vacuum control
- » PTFE rack for 11, 13 and 15mm tubes to satisfy daily use and virtually all laboratory needs



EXTRAPID MANUAL CARTRIDGE-DISK EXTRACTOR

The Extrapid manual SPE system is the ideal partner when treatment of large volume samples is required. A unique and flexible extraction solution for standard and routine SPE needs in environmental analysis.

TECHNICAL FEATURES

- » 3-ways valves to efficiently control the sample collection and the waste discharge
- » During operation process:
 - No need to switch ON/OFF the vacuum pump
 - No need to wait for venting and removing collection vials
 - No need to drain the waste liquid and clean the vacuum chamber
- » Up to 4 samples run individually or simultaneously
- » 1, 3, 6mL cartridge and 47, 90mm disk options
- » Flow control valve ensuring accurate flowrate and high reproducibility
- » Sample flowrate from 1 to 45mL/min
- » Parts directly in contact with solvents made of PTFE or stainless steel to ensure excellent anticorrosion resistance

STANDARD CONFIGURATION

- » Main unit
- » Collection bottles
- » Clamp ring
- » Waste liquid bottle
- » Vacuum pump

OPTIONAL ACCESSORIES

- » 10L waste liquid tank
- » 1L sampling glassware device
- » 20L waste liquid tank
- » 90mm/C18 SPE disk
- » 90mm SPE disk adapter



SEPATHS UP THE INNOVATIVE SPE SOLUTION

The Sepaths UP is designed for both cartridge and disk applications to treat samples with different volumes.

It can be applied to extract trace organic compounds from drinking water, surface water, ground water, food, beverage and other samples. Sepaths UP automatically treats from 1 to 12 same or different samples, through the whole treatment process, including condition, sample loading, rinsing, elution and concentration.

It is a closed system able to completely remove solvent vapors through the exhaust line (included).



TECHNICAL FEATURES

- » From 1 to 120mL/min flow rate
- » Accurate control loading rate of small amount of sample
- » Sample volume from 1mL to 20L
- » Different cartridge and disk available
- » Different sample collection vials options
- » Display for real-time process
- » Solvent and sample management system
- » Fast concentration nitrogen flow
- » Optional concentration module
- » Automatic spray cleaning of sample bottles
- » Possibility to manage via software up to 8 solvents
- » Separated aqueous and organic waste collection
- » Possibility to separate different sample phases
- » Possibility to configure the system with 4, 6, 8, 10 or 12 samples
- » 1 to 12 samples run simultaneously
- » High pressure protection system
- » Intuitive and easy to use software



Complete software solution

- » Possibility to run simultaneously different methods
- » Real-time process monitoring
- » Possibility to modify and create customized methods

Optional Concentration Module (E.T. Concentrator)

- » Dedicated concentration for each channel
- » Fast concentration by nitrogen flow
- » Parallel concentration model

Channel number	Sepaths UP-4	Sepaths UP-6
4	●	
6		●
8	● ●	
10	●	●
12		● ●

● Modular configuration for different number of sample channels

SEPLINE-S AUTOMATION AND PRODUCTIVITY CONCEPT

The SepLine-S automated solid phase extractor is the result of the latest liquid-solid extraction techniques and mass chromatography highest requirements in terms of sensitivity and reproducibility.

Largely used in environmental protection, food, petrochemical, pharmaceutical, clinical, life sciences and other applications thanks to its flexibility.

The SepLine-S series includes two models: Single and Dual channels. Condition, sample loading, rinsing and elution steps are processed automatically by software according to user needs. A unique low-pressure sealing technology accurately controls the liquid flow through the syringe and avoid cross contamination. Multi-channel mode improves the efficiency of the SPE method and guarantees reproducibility and stability of sample pre-treatment.

SepLine-S1/S2

AutoSPE system is able to perform single/double sample batch processing. It can automatically achieve conditioning, sample loading, rinsing and eluting steps. Thanks to the included nitrogen purge module, SepLine-S is the ideal partner for routine and R&D needs in the organic sample preparation. The new quantitative concentrator can be connected to the main unit by a plug-and-play procedure.



LIQUID SEPARATION BY AIR BUBBLE

Thanks to air bubble, SepLine-S is able to avoid liquid mixing when two different solvents and/or samples flow into the liquid circuit. Advantages are:

- » Preventing polarity change
- » Improving sample recovery

PRECISE FLOW RATE CONTROL

- » High precision syringes
- » High precision tubes to ensure accurate control of sample and solvent dispensing
- » Flow accuracy: 0.1%
- » Flow rate: from 0,1 to 100mL/min

TECHNICAL FEATURES

- » Automated process of sample transfer, rinsing, loading, drying, washing and elution
- » Positive pressure pump to ensure accurate flow rate and high recovery
- » Automated holder up to 60 cartridges controlled via software
- » Unique low pressure sealing tech and air bubble technique to prevent sample/solvent cross contamination
- » Standard nitrogen blowing function
- » Up to 7 different solvents managed via software
- » Septum piercing function to prevent solvent evaporation
- » Dispensing needle cleaning function to avoid cross contamination during liquid handling
- » Different volume sample vials and rack options
- » User friendly software with intuitive graphic interface
- » Optional sample tray cooling device

CARTRIDGE HOLDER MODULE

- » SPE cartridges are moved by sliders to the set position via software
- » Optimized design to allow cartridge exchange
- » 60 sample extractions automatically handled via PC software
- » Compatible with the majority of SPE cartridge specifications
- » Fully closed treatment process to avoid solvent vapors to ambient

SPE OPERATION MODULES

- » Positive pressure extraction mode to ensure stability of the recovery rate
- » Low-pressure sealing technology
- » Air bubble technique to prevent solvent/sample cross-contamination
- » Closed system to ensure environmental protection. No additional consumables required
- » Possibility to upgrade the SepLine-S single channel unit to multi channel versions

AUTOMATIC LIQUID HANDLER

- » Management of both sample injection and collection via software
- » Optional cooling sample tray
- » Fully closed system
- » Possibility to choose cleaning method and time. The needle is cleaned by immersion to avoid cross contamination



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