



SmartPrep®

**AUTOMATED CARTRIDGE
EXTRACTION SYSTEM**



PREPARE FOR BETTER RESULTS



**CHROMATOGRAPHIC
SPECIALTIES INC.**

www.chromspec.com

1-800-267-8103 • sales@chromspec.com • tech@chromspec.com



Automate Your SPE Process

The SmartPrep Cartridge System is designed for simple automation of manual solid phase extraction (SPE) methods. Just like manual SPE, up to 12 samples per SmartPrep System can be run in one batch. To control the SmartPrep System, choose the front touch screen or the intuitive SmartPrep software. Run the same method or different methods for each of the 12 samples.

Walk away and let your samples run unattended with confidence.

SMARTPREP EXTRACTOR FEATURES:

- › Controlled positive pressure sample and solvent flow rates for the best recoveries and precision
- › Use virtually any standard, commercially available, tabbed or tab-less 1, 3, or 6-mL cartridge
- › Up to four fractions per sample can be collected or discarded to independent waste ports
- › Modular and scalable for more than 12 samples to match your laboratory workload
- › Small footprint provides economical use of laboratory space
- › A variety of solvents in any ratio can be mixed in-line for true SPE optimization
- › User status indicators provide
 - Color coded sample and fraction tracking tubes
 - Solvent volume status and calculator
 - Waste volume calculator for organic and chlorinated solvents
 - Time per sample and elapsed time clocks
 - Graphical SPE step indicator icons
- › Sample volumes from 1 mL – 1 L can be automated on the same platform without system modifications
- › Automatic filtering, concentration, clean-up, and buffer exchange
- › Automatic sample dilution prior to SPE

RUN THE SMARTPREP EXTRACTOR IN BASIC, ADVANCED, OR MANUAL OPERATION MODE:

Basic 5-Step Run Mode

1. Install SPE cartridges
2. Install fraction collection tubes/vials
3. Position solvent bottles
4. Position samples
5. Import sample sequences

Advanced Run Mode

1. Method creation
2. Method development
3. Method optimization
4. Customize reagents & waste collection
5. Import sample sequences

Manual Mode

1. System optimization
2. Create/save a manual sequence
3. Full control for troubleshooting



LOCKED IN GOOD LABORATORY PRACTICE (GLP):

- Ensure sample safety using downloaded methods with the touch pad
- Enable a 'Run Only' mode for routine method operation
- Generate full method and run reports for traceability

INTUITIVE USER-FRIENDLY SOFTWARE:

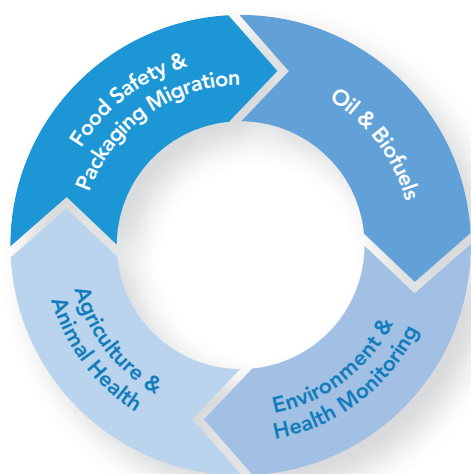
- Color coded sample and fraction tracking tubes to eliminate user error
- Solvent volume status and calculator for user verification
- Waste volume calculator separates organic and chlorinated solvent collection
- Time per sample and elapsed time clocks provide system completion status
- Graphical SPE step indicator icons keep users informed

SIMPLE SPE WITH VERSATILITY:

- 1, 3, or 6-mL cartridges
- Up to 8 solvents can be used in any ratio
- Independent methods can be run with each cartridge

FLEXIBLE METHOD DEVELOPMENT AND OPTIMIZATION:

- Run a variety of cartridges with different sorbents and sorbent weights within a single batch
- Wash with different solvents or solvent mixes
- Collect the load, wash, and elute steps for analyte breakthrough



The SmartPrep Extractor allows you to perform **your** chemistry, ideal for an extensive range of applications:

- › Food Safety & Packaging Migration
- › Oil and Bioenergy Research
- › Environment & Health Monitoring
- › Agriculture & Animal Health

Improve your laboratory workflow, efficiency, and analysis results with enhanced automation of SPE without the need for extensive training or expertise.



Put Our Experience To Work For You



horizontechinc.com

At Horizon Technology, we recognize the importance of sample preparation as the first step in achieving better results in the analysis of semivolatile or nonvolatile organic compounds. Whether you're using GC/MS, GC, LC/MS or LC for your analysis, our extraction, drying, evaporation/concentration, solvent recovery systems and automated solutions will help you streamline your workflow while improving cost-efficiency and reproducibility.

The consumables that fuel your sample preparation must be readily available and consistently high-quality to ensure that your analyses run predictably and reproducibly. Purchase these and other items through Horizon Technology by phone or on the expanding E-store for reliable delivery and operation.

Whether you're just switching to automated sample preparation or have new employees running your equipment, Horizon can reduce the learning curve. Online videos, comprehensive instruction manuals, application notes and live technical support get you up and running quickly, while our in-house or on-site service provides fast and convenient installation, repair and maintenance of your equipment.

With our ever-expanding product line and consultative approach, we're committed to helping laboratories worldwide get their analyses off to a great start.

 55% recycled content; 30% post-consumer waste.
Printed in the USA. B0031407_01

©2014 Horizon Technology, Inc. All rights reserved. All trademarks are the property of their respective owners.



**CHROMATOGRAPHIC
SPECIALTIES INC.**
www.chromspec.com

1-800-267-8103 • sales@chromspec.com • tech@chromspec.com

