

From Sample to Vial

Automated Sample Prep Solutions

Extraction • Cleanup • Concentration



FMS
Fluid Management Systems

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PowerPrep® EPH Single Column Cleanup and Fractionation System

The PowerPrep® EPH Fractionation system performs fractionation and sample cleanup for up to 30 samples in less than one hour, producing the highest recoveries and best results for aliphatic and aromatic hydrocarbon content. With the PowerPrep EPH system you have the option of expanding from one module, that will perform five sample fractionation and cleanups, to a six module system capable of performing 30 sample fractionation and cleanups.

The PowerPrep EPH system delivers the reproducibility you demand by consistently conditioning the columns, delivering the sample performing the sample cleanup and fractionation. The PowerPrep EPH system increases sample throughput while reducing errors. It eliminates poor recoveries and provides a cleaner background while eliminating contamination. This system uses FMS's high quality and inexpensive, Polypropylene based, pre-packed, disposable columns that deliver high recoveries and eliminate the errors and time spent on manual column packing, gravimetric chromatography and glassware cleanup.



The PowerPrep EPH Single Column Cleanup and Fractionation System system runs 5 samples sequentially and in parallel while providing direct-to-vial concentration

Separates Aliphatic and Aromatic Hydrocarbons

Fractionation is accomplished using either polypropylene cartridges pre-packed with silica gel or glass columns manually packed with conditioned silicagel. While it is difficult to achieve the high aliphatic and aromatic compounds recovery, the manual collection of fractions by using poly-propylene cartridges or manually packed glass columns requires additional time for column preparation and calibration. FMS offers a precise method that is automatically controlled by a programmable workstation with patented pre-packed and pre-conditioned columns. Together, they guarantee a consistent level of fractionation and recoveries of targeted compounds.

Fast turnaround: 30 Samples in One Hour

The PowerPrep EPH system increases sample throughput while reducing errors and poor recoveries.

Produces Consistent, Reproducible Results

With just a few keystrokes, the PowerPrep EPH system performs an entire column chromatography, automatically achieving high recoveries for all analytes.

Ready-to-Use, Conditioned Columns From FMS

The PowerPrep EPH system uses pre-packed disposable columns made from Teflon and silica. FMS's columns are tested for purity and performance prior to shipment.

Automates in compliance with Methods MADEP EPH, TNRCC Method 1005-1006

The PowerPrep EPH system is changing high speed sample processing in today's laboratories. You need only to load your samples, snap on your pre-packed columns and press the start key. The system performs the entire sample cleanup and fractionation according to the MADEP EPH, TNRCC Method 1005-1006 making compliance easy.

Reduce solvent and glassware usage

FMS pre-packed disposable columns eliminate washing glassware and the solvents to clean that glassware.

Dramatically Cuts Operation Costs

Unattended operation of the system saves labor and valuable time. FMS pre-packed columns reduce the need to QC test in the lab as well as errors caused from manual fractionation.

Modular and expandable

With the PowerPrep EPH Fractionation system you have the option to expand from one module, which will perform five sample fractionation and cleanups, a six module system which will perform 30 sample fractionation and cleanups.

Robust and Easy to Maintain

Both system expansion and module replacement are performed via FMS's quick connect modules. This feature reduces system down time and increases laboratory throughput.

Cookbook Method

FMS's powerful windows-based monitoring and control software offers a rich set of features and flexibility, including methods development and optimization. Once the method is optimized it is saved and used for each run, eliminating the need to create a new method each time the system is run. Input parameters include flow rates, volumes, column selection, sample size, solvent selection and fraction collection.



The SuperVap® Small Volume is a standalone automated direct-to-vial concentration system

Specifications

Dimensions: 15" W x 18" D x 35" H

Weight: 130 lbs.

Pump: Piston Displacement

Flow rate: 0.2 to 15ml/minute

Electrical Input: 110/220 Volts, 50/60 HZ

Controller: PC based