

From Sample to Vial

Automated Sample Prep Solutions

Extraction • Cleanup • Concentration



FMS
Fluid Management Systems

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PowerPrep®

MultiColumn Sample Cleanup for Trace Analysis

The Powerprep Multi Column Sample Cleanup system automates error prone, complex, tedious, manual sample cleanup and fractionation in the laboratory. It replaces older manual techniques by automating the sample loading, washing, elution, fractionation and evaporation steps of the process increasing the laboratories throughput by performing sample cleanup and fractionation in hours instead of days.

The PowerPrep Multi Column Sample Cleanup System is the only automated sample processing system of its kind in today's laboratories. The automated liquid chromatography system performs simultaneous sample processing automatically and unattended. The total sample prep process, sample loading, washing, elution and fraction collection is done automatically. Built by design specifically to replace difficult, error prone, time and labor consuming manual processes involved in sample cleanup for trace analysis. The PowerPrep Multi Column Sample Cleanup System performs the sample cleanup process in hours versus days for the trace analysis of Persistent Organic Pollutants in all sample matrices.



The PowerPrep Multicolumn Cleanup system runs 1 to 8 samples in parallel performing sample cleanup and fractionation with direct to vial concentration

Versatile Rapid Sample Processing:

The PowerPrep® system automates the entire manual sample cleanup process, unattended in hours versus days. The Sample Processing Modules can be easily replaced to perform single column sample cleanup chemistries allowing the lab to multipurpose the PowerPrep for automating other sample prep processes.

Cost Effective & Reliable

Unattended Operation:

Performs the entire column chromatography, automatically and unattended achieving consistent, reproducible recoveries for all analytes. Unattended operation of the system saves labor and time, reducing glassware and solvents. It automates difficult manual sample cleanup procedures specifically for the trace analysis of Dioxins, BFRs, PCBs, Pesticides and PAHs.

High Recovery of all Analytes:

FMS columns are certified and guaranteed for the cleanup of samples for the trace analysis of Dioxins, PAHs, PBDEs, and PCBs producing the highest recoveries for all analytes of interest.

Modular, Expandable, Affordable, Easy to Maintain:

The PowerPrep system is modular and can be Expanded from 1 to 8 Samples. Both expansion and module replacement are done via FMS's quick connect modules. Reducing system down time, increasing laboratory throughput and eliminating cross contamination from sample to sample.

Applications

Liquids, Milk, Oil, Serum, Water, Waste Water, Solids, Fish, Feed, Meat, Soil, Fly Ash

Supported EPA Methods

Method 1613	Dioxin and Furans
Method 1614	Brominated Diphenyl Ethers in Water, Soil, Sediment and Tissue
Method 1668A	Chlorinated Bipenyl Congeners
SW - 846	Test Methods for Solid Waste
40 CFR 136	Methods for POPs analysis

Disposable Columns:

The PowerPrep System uses FMS proprietary columns that are made from teflon and contain packing's such as multi-layer ABN silica, acidic silica, basic silica, neutral silica, alumina, carbon and florisil. FMS columns are tested for purity and performance. Prior to shipment they are certified and guaranteed. FMS columns are Certified and Guaranteed for the cleanup of sample for the Trace Analysis of Dioxins, PAHs, PBDEs, and PCBs producing the Highest Recoveries for all analytes of interest

Easy Documentation:

Programs and stores an unlimited amount of methods and runs.

Samples are cleaned up and directly fractionated to the SuperVap Concentrator for unattended concentration directly to a vial.

Specifications

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

Weight: 65 lbs.

Pump: Piston Displacement

Flow rate: 0.2 to 15ml/minute

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



FMS pre-packed Columns for guaranteed purity.



The PowerPrep Multicolumn Cleanup system is modular and is expandable from 1 to 8 samples to meet your laboratories throughput



Optional SuperVap concentration for one step sample cleanup and concentration for Dioxin and PCBs analysis



PowerPrep Consumables

Part Number	Description	Part Number	Description
			Disposable Acidic Silica Column
LCDS-ABN-STD	Low capacity Columns	PBDE-HCDS-ABN-TFC	PBDE Free High Capacity Disposable ABN Silica Column with Teflon Chip
LCDA-BAS-006	Low Capacity Disposable Silica ABN Column	PBDE-HCDS-ACD-TFC	PBDE Free High Capacity Disposable Acidic Silica Column with Teflon Chip
CLDC-CCE-034	Low Capacity Disposable Basic Alumina Column		
	Disposable Carbon/Celite (.34g) Column		Silver Nitrate /Silica columns
	Low Capacity PCB Free Columns	CLDS-ABN-SNT	Classical Disposable ABN Silica + Silver Nitrate Column
PCBL-ABN-STD	PCB Free Low Capacity Disposable Silica ABN Column	PCBS-ABN-SNT	PCB Free Classical Disposable ABN Silica + Silver Nitrate Column
PCBL-BAS-006	PCB Free Low Capacity Disposable Alumina (6g) Column	PBDES-ABN-SNT	PBDE Free Classical Disposable ABN Silica + Silver Nitrate Column
PCBC-CCE-034	PCB Free Classical Disposable Carbon/celite Column .34g	HCDS-ABN-SNT	High Capacity Disposable ABN Silica + Silver Nitrate Column
	Low Capacity PBDE free columns		
PBDEL-BAS-006	PBDE Free Low Capacity Disposable Alumina (6g) Column		Carbon/Silica columns
PBDEL-ABN-STD	PBDE Free Low Capacity Disposable Silica ABN Column	CLDC-CSI-002	Disposable Carbon/Silica (2g) Column
PBDEL -CCE-034	PBDE Free low capacity Disposable Carbon/Celite column .34 g	PCBC-CSI-002	PCB Free Disposable Carbon/Silica (2g) Column
		PBDEC-CSI-002	PBDE Free Disposable Carbon/Silica (2g) Column
	Classical Columns		
CLDS-ABN-STD	Classical Disposable Silica ABN Column	CLDF-FLR-705	Classical Disposable Florisil (7.5g) Column
CLDA-BAS-011	Disposable Basic Alumina (11g) Column	CLDS-ACD-008	Classical Disposable Acidic Silica (8g) Column
CLDC-CCE-034	Disposable Carbon/Celite (.34g) Column	CLDS-NSS-060	Classical Disposable Neutral Silica (6g) Column
HCDS-ABN-STD	High Capacity Disposable ABN Silica Column	PCBA-5BAS-011	PCB Free Disposable 0.5% Deactivated Alumina (11g) Column
HCDS-ACD-STD	High Capacity Disposable Acidic Silica Column	PBDEA-5BAS-011	PBDE Free Disposable 0.5% Deactivated Alumina (11g) Column
HCDS-ABN-STD-TFC	High Capacity Disposable ABN Silica Column with Teflon Chip		
HCDS-ACD-STD-TFC	High Capacity Disposable Acidic Silica Column with Teflon Chip		Miscellaneous columns
	PCB Free classical Columns		
PCBS-ABN-STD	PCB Free Classical Disposable Silica ABN Column	CLTF-FIT-000	Fitting Teflon Hex For Classical Teflon Columns
PCBA-BAS-011	PCB Free Disposable Alumina (11g) Column	CLTF-FIT-025	Fitting Teflon Hex For High Capacity Columns
PCBC-CCE-034	PCB Free Classical Disposable Carbon Column		
PCB-HCDS-ABN	PCB Free High Capacity Disposable ABN Silica Column	UNI-TFZ-028	Fitting Tefzel Union
PCB-HCDS-ACD	PCB Free High Capacity Disposable Acidic Silica Column	MLU-TFZ-028	Fitting Tefzel Male Luer
PCB-HCDS-ABN-TFC	PCB Free High Capacity Disposable ABN Silica Column with Teflon Chip	FLU-TFZ-028	Fitting Tefzel Female Luer
PCB-HCDS-ACD-TFC	PCB Free High Capacity Disposable Acidic Silica Column with Teflon Chip		
	PBDE Free classical columns		Delrin Fittings
PBDES-ABN-STD	PBDE Free Classical Disposable Silica ABN Column	UNI-DEL-028	Fitting Delrin Union
PBDEA-BAS-011	PBDE Free Disposable Alumina (11g) Column	MLU-DEL-028	Fitting Delrin Male Luer
PBDEC-CCE-034	PBDE Free Classical Disposable Carbon/Celite Column	FLU-DEL-028	Fitting Delrin Female Luer
PBDE-HCDS-ABN	PBDE Free High Capacity Disposable ABN Silica Column		
PBDE-HCDS-ACD	PBDE Free High Capacity	FRZ-TFE-678	Small Fritz
		FRZ-TFE-901	Large Fritz
			Vial & Syringe
		TUBE-CEN-015	Glass Sample Vials With Caps 15ml
		SYRI-POL-010	Polypropylene Syringes