

Column Types and Accessories for PowerPrep



PowerPrep SPE system

Uses all SPE Cartridge and Column sizes

The FMS PowerPrep SPE uses an HPLC pump to provide positive pressure pumping and can handle all standard formats of SPE cartridges and columns that are on the market today. For guaranteed results, especially when dealing with low

limits of detection, we recommend the FMS pre-packed columns and cartridges. Each lot of FMS columns and cartridges are tested to guarantee success.

The PowerPrep SPE system gives laboratories the flexibility they have been looking for today. It is the first system to handle SPE cartridges and columns of all formats. The PowerPrep SPE system uses positive pressure for precise and accurate delivery of conditioning, washing and elution solvents and it uses a vacuum pump to load samples onto SPE cartridges and columns at an unprecedented speed.

It also has programmable solvent volumes for automatic bottle rinse. It easily handles clean and tough sample matrices.

High Speed Pressurized Liquid Extraction



PowerPrep PLE system

The PLE uses inexpensive and affordable stainless steel cartridges in various sizes, with Teflon filtration end caps. The low end user cost of the PLE extraction cartridges allows the end user to replace filtration end caps to prevent cross contamination.

A wide range of inexpensive extraction cell sizes are available, from 5 to 100 ml. Currently available sizes include, 5 ml, 10 ml, 20 ml, 40 ml, 70 ml, and 100 ml.

With the PowerPrep PLE you can run samples in extraction cell ranges from 5 to 100 ml with the same unit. The flexible PLE system's design and various extraction cartridge sizes allow the end user to use the same unit for all sample sizes. The extraction cells are made of either stainless steel 316, or the special acid and alkali resistant alloy stainless steel.



PowerPrep – Cleanup system

Disposable Columns

The Power-Prep system uses pre packed disposable columns. FMS's proprietary columns are made from teflon and contain multi layer silica, alumina, and carbon. FMS's prepacked columns are tested for purity and performance prior to shipment.

A wide range of pre-packed disposable clean up columns is available for use in the PowerPrep and the Total Rapid Prep (TRP) system.

These clean up columns vary in size and packing material types from standard multi-layered A-B-N silica to the special and custom made.

Disposable Columns used for Dioxins & PCBs, PBDEs analysis include:

Multi-layered A-B-N silica

Alumina

Carbon

High capacity acid silica (optional- used for fatty samples, this column removes 3-5 grams fat)

New: FMS is introducing a new high capacity Teflon column with pre filtration using Teflon chips as a filtration device. These columns will reduce back pressure and it is suitable for samples with high fat content.



TotalPrep (TRP)

The TotalPrep (TRP) consists of 3 different sample prep units, combined into one system: Evaporation, Extraction and Cleanup

The extraction unit uses extraction cells which can be used with either disposable Teflon end caps or stainless steel reusable end caps. In high throughput laboratories where fast sample turn around time is the goal, the Disposable Teflon end caps may be used to save end cap washing and assembly time. The reusable stainless steel end caps may be used when saving time and labor is not the overriding issue.

A wide range of inexpensive stainless steel extraction cell sizes are available for the Total-Prep™. Currently available sizes include, 5 ml, 10 ml, 20 ml, 40 ml, 70 ml, and 100 ml.

They are made of either stainless steel 316, or the special acid and alkali resistant alloy stainless steel. With its flexible design and construction the Total-Prep™ can accommodate the whole range of extraction cell sizes; from the 5ml cell all the way to the 100ml, in the same system.

The cleanup unit can use a wide variety of pre-packed disposable clean up columns. These clean up columns vary in size and packing material types from standard multi-layered A-B-N silica to the special and custom made.

Disposable Columns used for Dioxins & PCBs, PBDEs analysis:

Multi-layered A-B-N silica - cat. no. CLDS-ABN-STD

Alumina - cat. no. CLDA-BAS-011

Carbon - cat. no. CLDC-CCE-034

High capacity acid silica (optional used for fatty samples, this column removes 3-5 grams fat) - cat. no. PCB-HCDS-ACD

New: FMS is introducing a new high capacity Teflon column with pre filtration using Teflon chips as a filtration device. These columns will reduce back pressure and it is suitable for samples with high fat content.

Column Types And Accessories For POWER-PREP™ SYSTEM

Part #	Description
Columns	
CLDC-CCE-034	Disposable Carbon/Celite (.34g) Column
CLDS-ABN-STD	Classical Disposable Silica ABN Column
CLDA-BAS-011	Disposable Basic Alumina (11g) Column
CLDA-BAS-006	Disposable Basic Alumina (6g) Column
HCDS-ABN-STD	High Capacity Disposable ABN Silica Column
HCDS-ACD-STD	High Capacity Disposable Acidic Silica Column
HCDS-ABN-SNT	High Capacity Disposable ABN Silica + Silver Nitrate Column
CLDC-CSI-002	Disposable Carbon/Silica (2g) Column
CLDS-ABN-SNT	Classical Disposable ABN Silica + Silver Nitrate Column
CLDF-FLR-006	Classical Disposable Florisil (6g) Column
CLDS-ACD-008	Classical Disposable Acidic Silica (8g) Column
HCDC-C18-001	High Capacity Disposable C18 (1g) Column
HCDC-C18-005	High Capacity Disposable C18 (5g) Column
HCDC-C18-010	High Capacity Disposable C18 (10g) Column
HCDC-C18-020	High Capacity Disposable C18 (20g) Column
HCDC-C18-025	High Capacity Disposable C18 (25g) Column
HCDC-C18-030	High Capacity Disposable C18 (30g) Column
CLDS-NSS-060	Classical Disposable Neutral Silica (6g) Column
PCBS-ABN-STD	PCB Free Classical Disposable Silica ABN Column
PCBC-CCE-034	PCB Free Classical Disposable Carbon Column
PCBA-BAS-011	PCB Free Disposable Alumina (11g) Column
PCBC-CSI-002	PCB Free Disposable Carbon/Silica (2g) Column
PCB-HCDS-ABN	PCB Free High Capacity Disposable ABN Silica 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
PCB-HCDS-ACD-TFC	PCB Free High Capacity Disposable Acidic Silica Column with Teflon Chip
PBDE-HCDS-ACD-TFC	PBDE Free High Capacity Disposable Acidic Silica Column with Teflon Chip
PBDE-HCDS-ABN-TFC	PBDE Free High Capacity Disposable ABN Silica Column with Teflon Chip
PBDE-HCDS-ACD-TFC	PBDE Free High Capacity Disposable Acidic Silica Column with Teflon Chip
PCB-HCDS-ACD	PCB Free High Capacity Disposable Acidic Silica Column
Fritz	
FRZ-TFE-678	Small Fritz
FRZ-TFE-901	Large Fritz
Fittings	
UNI-DEL-028	Fitting Delrin Union
MLU-DEL-028	Fitting Delrin Male Luer
FLU-DEL-028	Fitting Delrin Female Luer
HCPF-FIT-000	Fitting For Jumbo Column
CLTF-FIT-000	Fitting Teflon Hex For Classical Teflon Columns
CLTF-FIT-025	Fitting Teflon Hex For High Capacity Columns

STANDARD COLUMNS/CARTRIDGES FOR PLE

Part #	Description
Columns & Cartridge	
PLE-CAR250-FLT10	250 ml stainless steel cartridge with two end cap filtration
PLE-CAR100-FLT10	100 ml stainless steel cartridge with two end cap filtration
PLE-CAR40-FLT10	40 ml stainless steel cartridge with two end cap filtration
PLE-CAR20-FLT10	20 ml stainless steel cartridge with two end cap filtration
PLE-CAR-SS05	5ml stainless steel cartridge
PLE-CAR-SS12	12ml stainless steel cartridge
PLE-CAR-SS20	20ml stainless steel cartridge
PLE-CAR-SS40	40ml stainless steel cartridge
PLE-CAR-SS100	100ml stainless steel cartridge
PLE-CAR-SS250	250 ml stainless steel cartridge
PLE-FLT-250M-TEF	End cap filtration for 250 ml cell, Teflon
PLE-FLT-100M-TEF	End cap filtration for 100, 40, 20 ml cell
PLE-FLT-250M-SS	Reusable End cap filtration for 250 ml cell, Stainless steel
PLE-FLT-100M-SS	Reusable End cap filtration for 100, 40, 20 ml cell- Stainless steel
PLE-FLT-AS06-TFE-U	Universal 6g Acid silica Teflon PLE end cap filtration for In cell Cleanup
PLE-FLT-NS06-TFE-U	Universal 6g Neutral silica Teflon PLE end cap filtration for In cell Cleanup
PLE-FLT-FLR06-TFE-U	Universal 6g Florisil Teflon PLE end cap filtration for In cell Cleanup
PLE-FLT-AS06-TFE-P	Polar 6g Acid silica Teflon PLE end cap filtration for In cell Cleanup
PLE-FLT-NS06-TFE-P	Polar 6g Neutral silica Teflon PLE end cap filtration for In cell Cleanup
PLE-FLT-FLR06-TFE-P	Polar 6g Florisil Teflon PLE end cap filtration for In cell Cleanup
PLE-FLT-AS06-TFE-NP	Non Polar 6g Acid silica Teflon PLE end cap filtration for In cell Cleanup
PLE-FLT-NS06-TFE-NP	Non Polar 6g Neutral silica Teflon PLE end cap filtration for In cell Cleanup
PLE-FLT-FLR06-TFE-NP	Non Polar 6g Florisil Teflon PLE end cap filtration for In cell Cleanup

Accessories

PLE-ORG-ETP-014	Viton ETP (universal) Orings size 014
PLE-ORG-ETP-017	Viton ETP (universal) Orings size 017 set of 2
PLE-ORG-ETP-116	Viton ETP (universal) Orings size 116
PLE-ORG-VIT-014	Viton (non polar) Orings size 014
PLE-ORG-VIT-017	Viton (non polar) Orings size 017 set of 2
PLE-ORG-VIT-116	Viton (non polar) Orings size 116
PLE-ORG-NEO-014	Neoprene (Polar) Orings size 014
PLE-ORG-NEO-017	Neoprene (Polar) Orings size 017 set of 2
PLE-ORG-NEO-116	Neoprene (Polar) Orings size 116
PLE-SS-FLT-10	Stainless Steel Filter
PLE-SS-RET	Retaining ring
PLE-SS-CAP-100M	Fitting
PLE-CAP-RET-TOOL	Retaining tool
PLE-CAP-ASM-TOOL	Assembly press for SS end cap
PLE-FLT-100M-SSU	Universal Reusable End cap filtration for 100, 40, 20 ml cell- Stainless steel
PLE-FLT-100M-SSP	Polar Reusable End cap filtration for 100, 40, 20 ml cell- Stainless steel
PLE-FLT-100M-SSNP	Non Polar Reusable End cap filtration for 100, 40, 20 ml cell- Stainless steel
PLE-HTB-SM	Small Heater blocks for 20 - 40ml column
PLE-HTB-MD	Medium Heater block for 100ml column
PLE-EXT-40	Extender for low volume columns
PLE-EXT-TUB	Extension tubing for low volume column
PLE-INT-SPC-100	Teflon Spacer for 20,40,100 ml cell
PLE-INT-SPC-250	Teflon Spacer for 250ml cell