



# EP-110<sup>TM</sup>

*Automated Dioxins & PCBs Sample Preparation System*

*The EP-110 performs rapid automated sample loading, purification and fractionation of samples, delivering final extract in GC vial ready for GC/MS analysis*

**FMS**  
Fluid Management Systems

**CAMPRO**  
SCIENTIFIC



# EP-110<sup>TM</sup>

Automated Dioxins & PCBs  
Sample preparation System

*Green Technology:*

Zero DCM

*Fast:*

30 to 45 minutes

*High Throughput:*

Up to 8 Samples in Parallel

*Low Solvent:*

As Low As 110ml per Sample

*Fully Automated:*

From Sample Loading to GC Vial

*Expandable:*

From 2 to 8 samples

*Quality Consumable*

Guaranteed Certified Columns

*Economical:*

Column Kits to meet your Sample Matrix

*Reliable:*

Easy to Maintain

Imagine performing the Sample Cleanup process for POPs analysis in liquids and solids automatically in as little as 30 minutes.

Built on 25 years of FMS, Inc. experience and technology that has processed millions of Dioxin samples.

FMS introduces a new family of integrated, economical sample cleanup systems that combine manual sample prep steps into one automated process. EP-110 systems perform sample cleanup, fractionation and concentration for up to eight samples simultaneously in less than 1.5 hours, while delivering the highest recoveries and best results for all target Dioxin and PCB analytes. The systems are programmed and controlled via an easy-to-use touch screen and methods are stored on SD cards. A flexible system that automates sample preparation steps, such as sample loading, wash, elution and fraction collection, all in one step. An integrated concentrator concentrates the final extract automatically and delivers the final extract in a GC vial ready for GC/MS analysis.





### Green Technology: Zero DCM

The EP-110 uses Zero DCM in the cleanup process. By design it produces greater efficiency to perform clean up and it greatly reduces solvent consumption.

### Fast: 30 to 45 minutes

Depending on the Sample Matrix and Lipid content samples can be run in 30 to 45 minutes. Column kits designed to meet different sample lipid content allow for fast sample processing. The system is able to turn around up to 64 samples in a day.

### Low Solvent: As Low As 110ml per Sample

Column Kits designed for samples with different lipid content allow for using the lowest possible amount of solvent to process a sample.

### Expandable: From 2 to 8 samples

The EP-110 is modular and can be expanded to find the needs of any lab. Each module can handle 2 samples in parallel. The system can have up to 4 modules running 8 samples in parallel.

### Quality Consumables: Guaranteed Certified Columns

A wide variety of economical, pre-packed, disposable cleanup columns are available for use with EP-110 systems. Column Consumables are Certified and Guaranteed for cleanliness and performance.

### High Throughput: Up to 8 Samples in Parallel

The EP-110 systems are integrated, economical sample preparation systems that combine the sample cleanup, and evaporation steps into one automated process. The EP-110 processes eight samples in parallel including sample cleanup, and concentration. The systems are able to turn around up to 64 samples in a day.

### Automated Sample Loading

Install the cleanup columns on the system, push the "Run" button and walk away. The EP-110 will automatically load a sample and perform the entire sample preparation process unattended, in virtually one step. The final fractions are ready for analysis by GC/MS.

### Reliable: Easy to Maintain

The modular, flexible design of EconoPrep systems virtually eliminates downtime and makes them the most easily to maintain systems in today's laboratories. Each system module operates independently of the other modules, so if one module malfunctions the others still work. Should a module malfunction, laboratory personnel can easily replace it on-site.

### Chemistry Kit Rental Program for the Industry Standard EconoPrep® Multicolumn Cleanup System for Dioxins and PCBs

- Allows the laboratory to acquire equipment without the outlay of capital funds
- A program designed to fit within a laboratory's budgetary constraints better than a capital purchase
- Offers a program that could fit within a laboratory's purchasing departments constraints
- It will allow laboratories to implement automation quickly and not have to wait for months or years

### For the analysis of:

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