

Moving SFC Forward

## SFC Prep 150 AP System



**Designed for automated UV and/or MS triggered purification, the SFC Prep 150 AP System offers automated sample handling, column switching, fraction collection, and tracking in an easy-to-use, open bed format.**

The SFC Prep 150 AP System provides routine compound purification for drug discovery labs, using the Waters<sup>™</sup> MassLynx<sup>™</sup>/FractionLynx<sup>™</sup> Application Manager. This system offers fast separations, high resolution, and high throughput. The inherent benefits of SFC, combined with Waters' world renowned service and support, provides users with a robust, cost-effective solution to any purification lab.

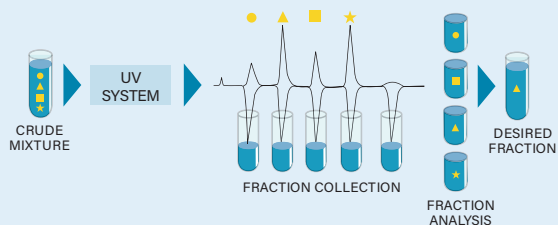
The SFC Prep 150 AP System automates the purification process by linking analytical pre-screen, purification, and fraction re-analysis with AutoPurify in an "open access" setting. Stacked injection capability is also available for

the purification of large amounts of material, delivering multiple injections, and allowing for multiple peaks collected into separate vessels.

SFC systems utilize liquid carbon dioxide (CO<sub>2</sub>) as its main mobile phase in combination with one or more organic solvents, resulting in faster equilibration, lower pressure drops across the column, solvent reduction, and lower cost per sample. The process is reproducible and applicable to a wide range of compounds relevant in the Pharmaceutical, Life Sciences, Chemical Materials, and Food and Environmental markets.

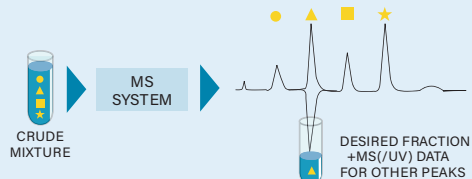
### UV SYSTEMS

When fraction collection is based on UV absorbance, multiple fractions may result, requiring further analysis to determine the fraction of interest.



### MS SYSTEMS

When fraction collection is triggered by mass detection, fewer fractions result since you collect only the peak containing the mass of interest.



## Key features

### **QGM Low Pressure mixing Quaternary**

**Gradient Pump:** This pump delivers flowrates up to a maximum of 150 mL/min as serves as the co-solvent delivery device for this system.

**P200X CO<sub>2</sub> Pump:** This is a high pressure delivery pump having dual stainless steel heads with a cam driven sapphire piston assembly, self priming check valves, pressure sensor, pressure gauge, brushless motor, and a rupture disc assembly. The pumps design lends itself to control based upon feedback from the pressure sensor and mass flowmeter.

**Modifier Stream Injector:** This design supports customers requests of Modified Stream Injection ONLY. Its function is to inject one sample at a time using a standard 2-mL loop and a 5-mL syringe. This device allows for settable air gaps on either side of the sample. The air gap functions as a buffer between the solvent and the sample decreasing dilution.

**3767 Sample Manager:** This module provides injection and collection capability in an open bed format. The system includes the fume hood assembly for the 3767 for CO<sub>2</sub> management. Injection and collection racks must be ordered for the system. The specific racks required will be determined by your needs and requirements.

**Gas-Liquid Separator (GLS):** The Gas-Liquid Separator provides the capability to achieve open bed operation of the fraction collection system. It ensures minimum CO<sub>2</sub> at collection but also preserves peak integrity. Sample carry-over concern is removed due to the cleanliness method built in a software routine.

►► [Learn more at waters.com/Prep](https://www.waters.com/Prep)



3767 Sample Manager

# Waters

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