Advion's unrivalled expertise in mass spectrometry has delivered a mass spec solution just for chemists. Whether you are a biopharmaceutical company, academic research or teaching lab, or any industry requiring routine mass assays, the expression CMS delivers high performance in a compact, easy-to-use package at an affordable price.

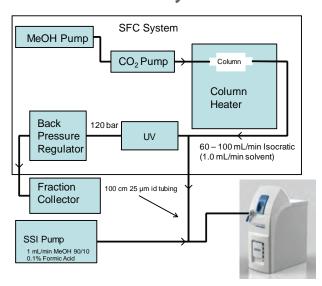
Product Note

Prep scale SFC/CMS Interface – passive split

Supercritical fluid chromatography (SFC) is a fast growing technique. Initially used almost exclusively for only thermally labile and chiral compounds it is now becoming accepted as a versatile analytical technique applied across a broad range of compounds. It is faster and higher-throughput than regular HPLC and Preparative LC and becoming popular as a 'green' technique, with far lower solvent consumption and lower consumable cost than HPLC. SFC is also compatible with a wide range of detection methods including electrospray (ESI) and atmospheric pressure chemical ionization (APCI) mass spectrometry. SFC combined with compact mass spectrometry (CMS) offers chemists several benefits:

- Simply interfaced to both analytical scale and prep scale SFC
- Mass directed fraction control from the XIC or TIC
 - or Fraction collection using peak detection in Advion software
- Fast clearing time CMS chromatographic peak width and shape is the same as the UV peak even at very high sample loads
- Unambiguous identification and collection of the compound of interest
- Guarantee highest recoveries and purities even for low level impurities and samples with no chromophore

SFC/CMS Mass Analysis



- 1: Prep scale SFC/CMS schematic. Jasco prep scale SFC shown, but this approach has also been successfully demonstrated with Berger Minigram, Thar and Waters Investigator, Aurora and Sepiatec systems covering the flow rate range of 1 100 mL/min for diverse Analytical, Semi-Prep and Prep applications.
- 2: Integration with Jasco prep-scale SFC multiple injections to collect impurities
- 3: Integration with Jasco prep-scale SFC synchronous UV and MS

