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MODULAR SFC™

eNEWS UPDATE

August 2009

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#### No Obligation Demo Offer

We have systems available for a one month onsite evaluation for new or existing customers.

At the end of the demo period, you may choose to purchase the CFC or we will pick it up and you will be under no obligation what-so-ever.

[Click here](#) to reserve your demo system.

#### Register For Our eNewsletter

Welcome to the quarterly Modular SFC newsletter. Please be sure to register for the newsletter to receive the latest news and updates on technologies, products and applications for SFC, SFE and HPLC.

[Register here.](#)

#### Enabling SFE



The CFC-2 has been selected as the winner of the Laboratory Equipment magazine 2009 Readers Choice Awards. The system was recognized for its ability to increase yields, simplify processing, and save time for Supercritical Fluid Extraction (SFE).

[Learn more...](#)

#### Centrifan™ RE Debuts at the Prep 2009 and SFC 2009 Conferences

Our thanks to all of you who stopped by for a demonstration of our new Centrifan Recirculating Evaporator at the recent Prep 2009 and SFC 2009 conferences. We appreciate your enthusiastic reaction when we described how the Centrifan RE dries samples up to 5X faster than benchtop centrifuges or blow down concentrators - all without using a vacuum pump.

If you were unable to visit us during the meetings, or you would like more information on the Centrifan RE, please visit our web site to download a [data sheet](#) and [contact](#) us to arrange a [demo](#) in your lab.

#### Ensure 100% Collection of Compounds Eluting with Very Low Percentage of SFC Modifier Solvent

With the help of our customers, we continue to discover and develop novel applications for our CFC-2 Centrifugal Fraction Collector and we engaged in many interesting discussions during the two meetings. One topic focused on collection of compounds that present the potential of precipitating within the collection flow path due to low percentages of the CO2 modifier solvent (methanol).

Typical HPLC purification methods for highly non-polar compounds use normal phase solvent combinations like hexane and a small percentage of ethanol. Use of SFC in these instances, which could require only fractional percentages of methanol in the CO2 eluant, is problematic when the flow returns to atmospheric pressure. Because the CO2 becomes a fast flowing gas and there is an insufficient liquid component to sweep precipitated sample through traditional collectors, yield and purity of fraction material can be unacceptably low.



By using the CFC-2 Centrifugal Fraction Collector, the eluant stream from an SFC instrument is 100% captured in the disposable fraction container glassware. The centrifugal force exerted upon the eluant stream causes all non-volatile material, even precipitated sample compound, to be trapped and collected within the containers spinning in the CFC-2 rotor. The CFC-2 enables the effective use of SFC methods to make any precipitate which may form in the CO2 eluant flow predictable, controllable, and containable exactly like the conditions in HPLC where a non-polar liquid is present.

#### Additional Applications

Other enabled applications where the CFC-2's unique centrifugal force-enhanced recovery benefits HPLC and SFC eluant streams include:

- 100% collection of radiochemical compounds
- 100% collection of highly potent compounds
- Collection of numerous small oligonucleotide or metabolite fractions without cross-contamination or sample carryover

We'll be describing these applications in more detail in upcoming newsletters. Stay tuned!

Please visit [www.modularsfc.com](http://www.modularsfc.com) for more information about the CFC-2 Centrifugal Fraction Collector. We would be happy to provide you the opportunity to evaluate the CFC-2 fraction collector for your application.

#### Flash SFC

During the meetings, we also presented a poster that demonstrated the feasibility of Flash SFC for small molecule purifications. In the poster, we showed how Flash SFC provides chemists with the means to isolate material of interest 3 to 5 times faster than traditional LC and while using up to 90% less solvent. The ultimate goal of "Green Flash" is to produce an SFC purification process that is as easy to use as Flash LC and will bring SFC into the mainstream of pharmaceutical small molecule purification, and thus, significantly reducing the carbon footprint for the purification process.

If you would like to learn more about Flash SFC, you can download a copy of the poster [here](#).

#### About Modular SFC

Modular SFC is an instrument design and development company founded in 2007. Our goal is to provide scientists and researchers with components that will move Supercritical Fluid Chromatography (SFC) into the mainstream of chromatographic isolation and purification. Our first products are designed to improve the process of SFC fraction collection. Modular SFC filed for its first SFC fraction collection technology patents in January 2007 and we are shipping our commercial CFC Series of benchtop fraction collectors and evaporators.

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