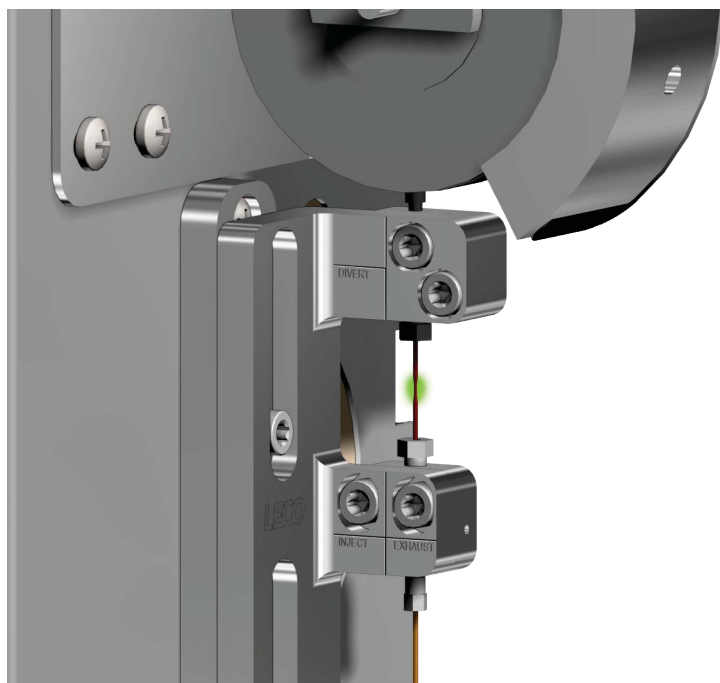


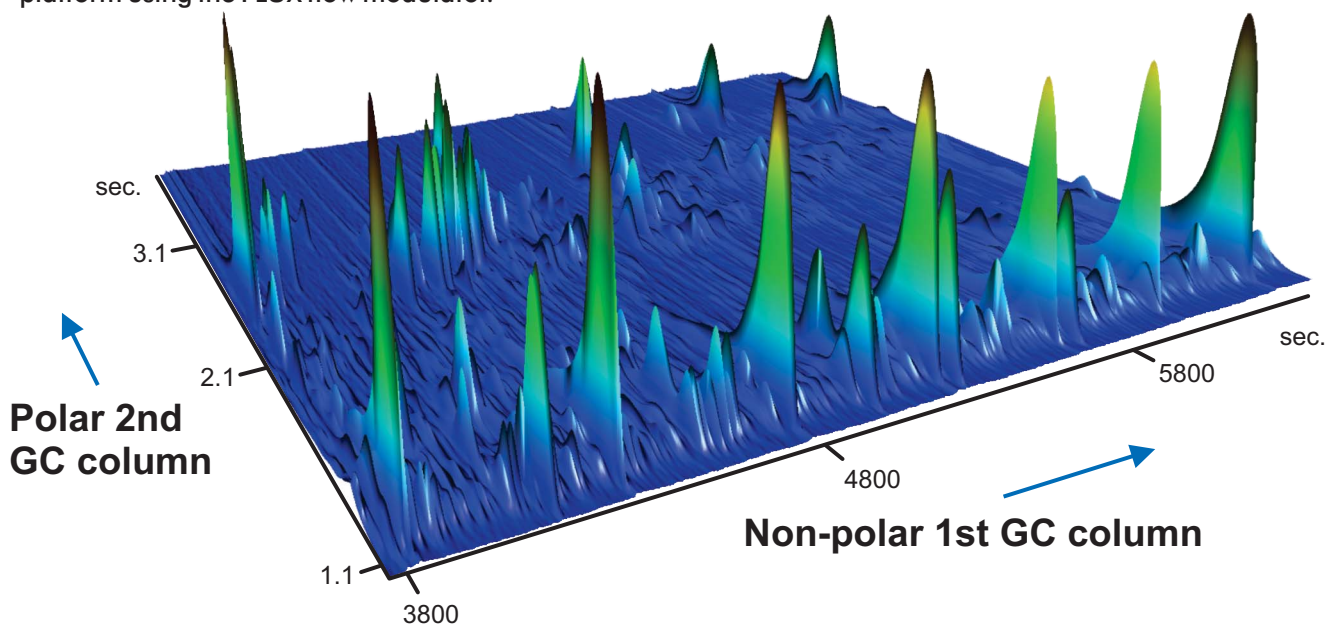
FLUX™

GC×GC Flow Modulator



Our innovative FLUX GC×GC flow modulator was designed with one goal in mind—to make GC×GC more routine, accessible, and easier for you. The flow modulator's concept is based on the sound and easily understood principles first articulated by Seeley et al. on diverting flow. This extraordinarily simple design comprising of a cross shape and a sideways T, is not only easy to setup and get started, but its ease-of-use makes it the most cost-effective option for GC×GC analysis.

This flow-based modulator is perfect for those who want to perform robust GC×GC analysis, but who don't need the sensitivity of standard quad jet thermal modulation. Ideal samples should be complex, but relatively concentrated. Appropriate applications include petroleum and fragrance analyses such as the classic weathered crude oil example pictured below, which shows a GC×GC plot generated on our Pegasus® BT platform using the FLUX flow modulator.



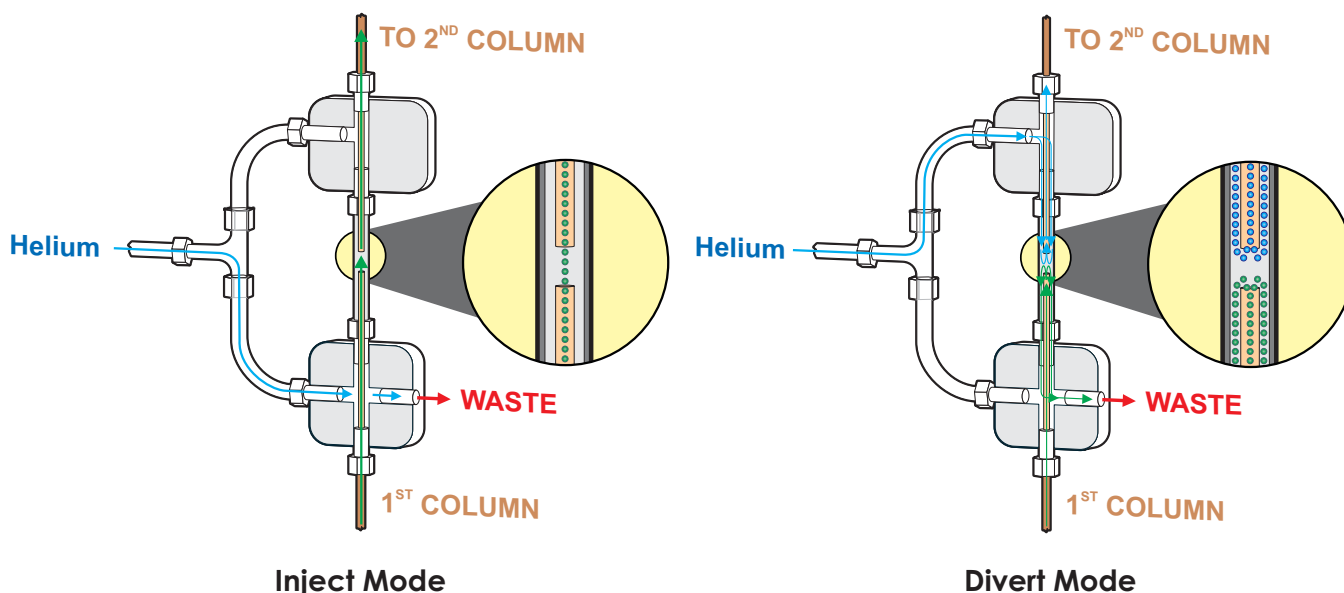
The power of GC×GC-TOFMS for your samples!

LECO
EMPOWERING RESULTS

Theory of Operation: Diverting Flow

The first and secondary capillary columns are connected together through a simple tube with a fixed gap between the columns. A flow of gas (helium) is then used to inject into the second column or divert to waste.

The precise timing and flows are all handled by our integrated software, therefore you just have to click one button to setup and begin performing flow modulation GC×GC on our Pegasus BT platform.



Furthermore, no complex spreadsheets are needed to understand your method. This simple and robust design does not require cryogenics to carry out GC×GC, which saves time and boosts efficiency in your lab.

Automated Configuration

#	Type	Location	Length(m)	Int. Diameter(μ)	Max Temp(°C)	Film Thickness(μ)	Phase
1*	Inlet	Front					
2	Capillary	GC Oven	60.000	250.00	350.0	0.25	Rxi-1ms
3	Flow Modulator						
4	Capillary	Secondary Ov	0.940	100.00	340.0	0.10	BPX-50
5	Capillary	Transfer Line	0.310	100.00	340.0	0.10	BPX-50
6	Detector	TOF					

#	Start	End	Second Dim. Time (s)	Injection Duration (s)
1*	Start of Run	End of Run	5.00	0.03 (increased peak capacity, lower sensitivity) 0.05 (default) 0.08 (increased sensitivity, lower peak capacity)

Parameters = Only 2 to manage

Manage method development using only 2 parameters;
we take care of the flows so you don't have to!

3000 Lakeview Avenue | St. Joseph, MI 49085 | 800-292-6141 | Phone: 269-985-5496
info@leco.com | www.leco.com | ISO-9001:2015 Q-994 | LECO is a registered trademark of LECO Corporation.

