

Paradigm™ Flow Modulator and Shift™ Flow Splitter

**Paradigm (and the
Paradigm Shift combo)
offer an elegant solution
for labs seeking complex
sample characterization**



LECO's *Paradigm* Reverse Fill-Flush (RFF) modulator and *Shift* flow splitter synthesize non-target and quantitative GCxGC workflows. The novel mechanism of *Shift* flow splitter preserves constant split ratio between MS and FID, optimizing single compound or group-type quantitative analyses.

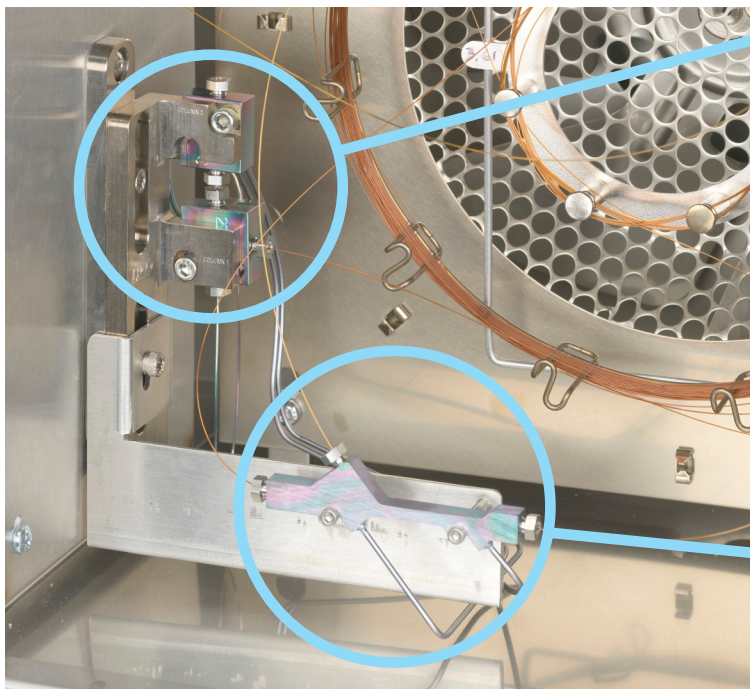
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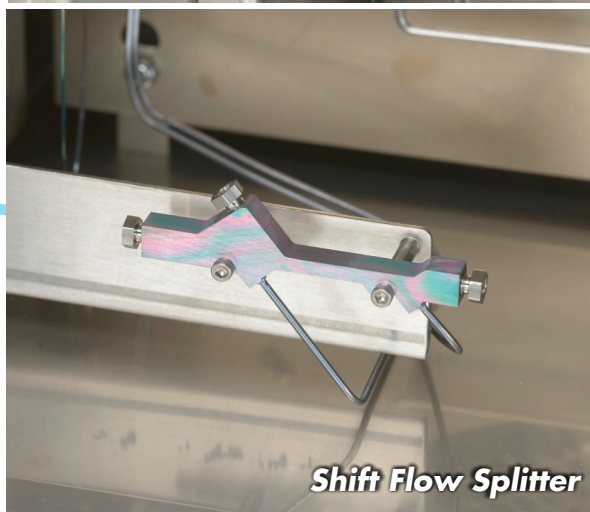
Elemental Analysis | GC Mass Spectrometry | Metallography

LECO's *Paradigm* Reverse Fill-Flush (RFF) Modulator

- Cryogen-Free GCxGC modulation for simultaneous TOFMS/FID acquisition
- Unique backpressure-controlled loop filling permits method flexibility without the hassle of restrictor or bleedline changes
- Column and loop fittings are readily accessible with standard wrench, unlike finicky "modulator-on-a-chip" designs



Paradigm RFF Modulator



Shift Flow Splitter

Shift Flow Splitter

- Novel pressure-assisted flow splitter
- Designed to work with the high flow rates needed for RFF modulation (~20 mL/min)
- Maintains constant split ratio between MS and FID throughout the entire run, even during oven ramps—the bridge between non-target and quantitative workflows

Patents

US Pat. No. 9123521, US Pat. No. 7501621, PRC Invention Patent ZL201380021654.6;
US Pat. No. 12163931, GB Pat. No. 2605286, GB Pat. No. 2622917, JP 7511062

LECO Corporation
3000 Lakeview Avenue | St. Joseph, MI 49085 | 800-292-6141 | Phone: 269-985-5496
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