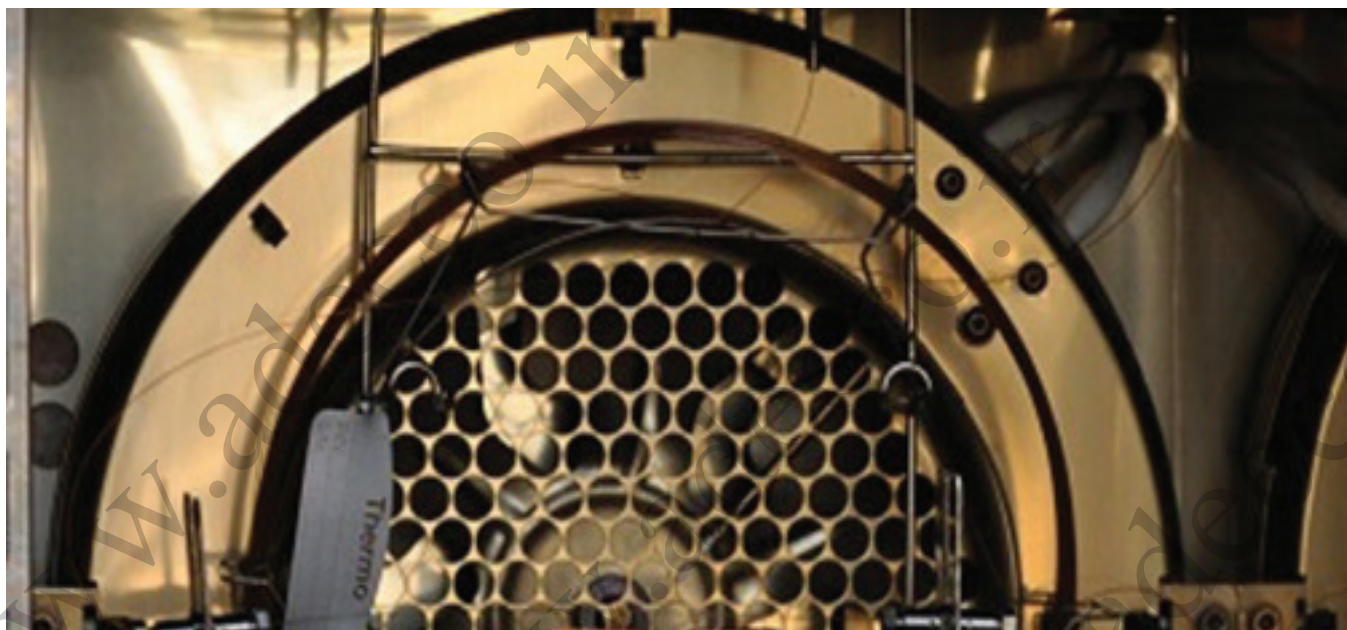


Dual Jet Cryogenic Modulator (2DGC)

Comprehensive two-dimensional chromatography is one of the fast growing techniques for analysis of complex mixtures. «Duojet» is a Comprehensive two dimensional gas chromatograph modulator with the ability to be interfaced to your gas chromatograph which provides reliable two and three-dimensional data from complex mixtures. «Cyrus» and «GC Image» are our offer for data processing of the resulting data.

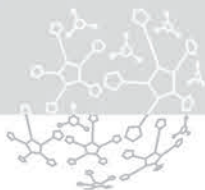
We can offer our specially designed modulator for any GC you already have in your laboratory and wish to upgrade it to powerful GC×GC.



Features:

- The Separation Power of GC×GC is considerably higher than conventional 1D capillary GC.
- GC×GC offers better sensitivity than conventional 1D capillary GC due to the focusing effect of the modulation.
- GC×GC generates structured chromatograms which make the technique more suitable for sample screening than conventional 1D capillary GC.
- GC×GC is easy to interface with TOF MS leading to an exceptionally powerful GC/MS system able to separate and identify the most complex mixtures.
- GC×GC reduces the need of complex mixtures preparation procedures as the separation power of the technique is so large that eliminate the interferences critical in conventional GC separations.





SPECIFICATION		
Cryogenic Modulator	Communication	RS232 Serial Port
	Type	Sequential Dual Jet
	Coolant	Liquid CO ₂
	Refrigerant Flow	Adjustable
	Column Alignment	Mechanical
	Modulation Cycle Time Selection	Adjustable 0 to 60 sec.
	Modulation Start Daley	Yes
	Jet type	Steel pipes with Brass Body, Replaceable
GC control and data acquisition	Depends on GC Type	
2D data processing "GC Image"	Automated Peak Recognition	Yes
	3D Automatic Integration	Yes
	Single or Group Processing	Yes
	Display Selection	Rotation 3D color plot, Apex map, One dimensional chromatogram
	Calibration	Different types of calibration
	Calibration Fit	Linear
	Software Noise Reduction Filters	Yes

Application

- Petroleum & Petro-Chemical industry
- Compositional characterization of petrochemical fractions
- Group-type and target analyses
- Food & Flavors
- Fingerprint complex essential oils
- Ordered patterns for identification of structurally related compounds
- Enantiomeric recognition of several components in highly complex samples
- Biomedical
- Forensic
- Environmental
- Separation of target compounds from matrix
- Possible reduction in need for sample clean-up procedures
- VOCs Analysis
- PAHs standard mixture
- Geochemistry
- Chemical / Industrial

