

ZX2 - Comprehensive GCxGC Modulator

Technical Specifications

I. Thermal Modulator

Achieve two-stage thermal modulation by using a continuous cold jet flow and a regularly pulsed hot jet to deflect the cold jet and remobilize trapped effluent.

1. Two-stage, dual jet loop modulation
2. NO moving parts
3. Accept capillary column dimensions of 0.32mm ID or smaller
4. Hot jet temperature : Up to 475°C
6. Cold jet temperature : As low as -90°C
7. Modulation period : Interval of 1 sec to 32sec
8. N2 consumption : 13 SLM per jet - Max.
[6 SLM typical per jet].

II. Cooling System

1. Continuous cooling without liquid nitrogen
2. Maximum cooling temperature : Max -90°C at the jet
3. SS vacuum insulated cold gas delivery line. 30" long (76.2cm)
4. Cooling probe : 316 corrugated stainless
5. Refrigerant expands directly inside the probe
6. Compressor : 2 compressors @ ¼ hp
7. Dimensions : 10" x 20" x 18.5"
: 25.4cm x 50.8cm x 47.9cm
8. Weight : 70 lbs / 32 kg
9. Electrical : 120V/60 Hz/7A

III. Image Analysis Software

GC Image and GC Project: qualitative and quantitative software for GCXGC data.

1. Automatic baseline correction
2. Performs blob (peak) detection automatically
3. Configurable thresholds and other peak detection settings
4. Variety of visualization and colorization schemes for best qualitative analysis
5. Automated processing of image batches using templates
6. Integrate single or multiple selected peaks
7. Supports many data file formats –Agilent, Shimadzu, ThermoFinnigan, JEOL, LECO, Varian
8. Analyze manually selected regions in a chromatogram
9. Advanced analysis of GC x GC x MS data using CLIC facility
10. Generate simple summary reports

IV. Secondary Oven -(Optional)

1. Sets secondary column temperature independently of main oven
2. Easy, drop-in column installation
3. Column set using simple press-fit
4. Able to hold two secondary columns of up to 20m each
5. Lead or lag main oven up to + or - 40°C
6. Temperature programming rate up to 5°C /min
7. Dimensions 6"x4"x2" (2.4cm x 1.6cm x 0.8cm)