

GC 2030 NEXIS

GAS CHROMATOGRAPH FOR QC APPLICATIONS

THE NEXT INDUSTRY STANDARD IN GAS CHROMATOGRAPHY

- HIGHEST SENSITIVITY AND REPRODUCIBILITY
- EXCEPTIONAL EXTENSIBILITY AND PRODUCTIVITY
- VARIOUS ADVANCED FUNCTIONS IMPROVE ENERGY EFFICIENCY
- CUSTOMIZED FOR SPECIFIC NEEDS



In collaboration with Shimadzu, Elysia has designed a GC solution optimized for the measurement of residual solvents in a radiopharmaceutical Quality Control lab. Increased radio protection, lower sample volumes and faster analysis times are important arguments if you need to work with isotopes. The automatic injector increases safety, repeatability and reduces hands-on time.

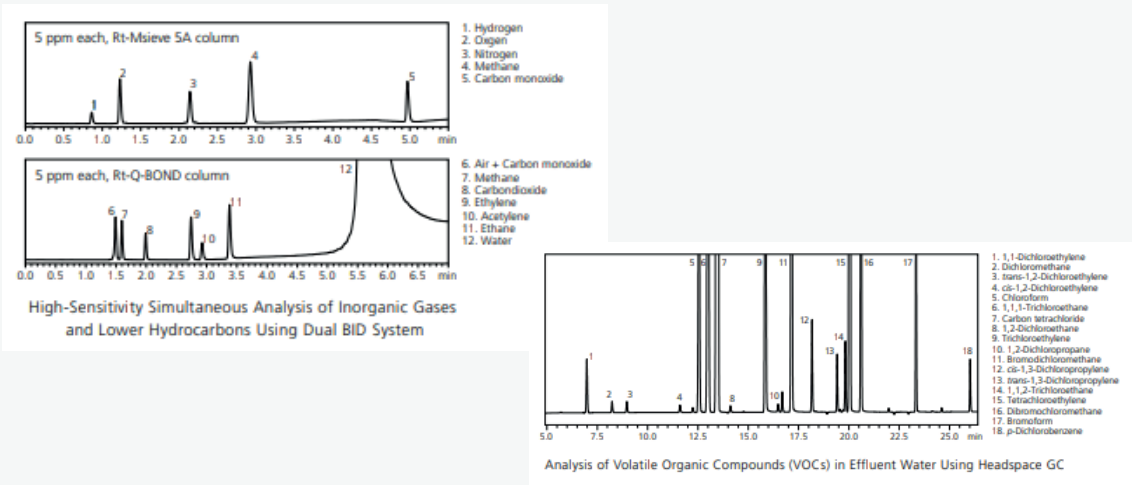
The GC enables reliable, high-precision trace analysis with outstanding repeatability, using a Flame Ionization Detector (FID), detectors that feature best-in-class sensitivity.

Rapid oven cooling, high performance flow control and backflush technology allow the user to shorten analysis times greatly for significant gain in productivity.

The high sensitivity of our detectors was achieved by thorough cleaning of detector gas lines, with the incorporation of the highest quality electronic components and implementation of the latest electronic noise-reduction technology.

SAFETY FIRST

Additional shielding and traps decrease the irradiation level and contamination risk. The automatic ignition, re-ignition, and flame extinguishing functions allow the user to have complete electronic control of the detector combustion gases. The detector signal feedback function allows the GC to cut the gas supply pressure to zero when the hydrogen flame is extinguished. Hydrogen supply fittings have reverse threads to help prevent incorrect plumbing connections. The full complement of GC inlets is equipped with electronic flow controllers that will turn themselves off if they sense a leak resulting in a pressure drop. These combined features allow the end user the confidence and assurance that our GC is ready to be safely operated when using Hydrogen carrier gas.



Option

Autoinjector option GC 2030 plus :

The standard configuration of the GC2030 Plus is delivered with a **liquid automatic injector** combined with a 10 µl syringe (the AOC-20i), and possibility to perform split / splitless column injection. The system uses 1.5 ml standard vial and low cross contamination is achieved.

Alternatively Elysia can deliver the GC system equipped with a **headspace sampler** with which the headspace gas is injected directly onto the gas chromatographic column. The headspace is well adapted for analysis where the entire sample should not be injected into the GC instrument (i.e. dirty sample, viscous sample or when carry-over is an issue).

Technical Specifications

Application
Chromatograph Oven

Oven Operation
Oven Temperature Range

Flow Control

Pump Flow Control
Inlet Pressure Range
Inlets

Detector
Minimum detected quantity

User Interface Options

User Interface
Remote Interface
Display

General Features

Organic Chemicals

Oven Temperature Programmable
122 to 536 °F (50 to 280 °C)

Flow Control
0.0 to 141 psi (0.0 to 99.01 m H²O)
Split/Splitless Column Injection SPL-2030
On-column injection unit OCI-2030
Direct injection unit WBI-2030
Programmed Temperature Vaporization Injector PTV-2030
Flame Ionization Detector (FID)
1.5 pgC/s

Digital
Computer Interface; Application Software Included.
Video
Programmable; Built in Chromatograph;
Self-Test, Diagnostics



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