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The image shows a large, white and blue gas chromatograph, the GC-5000C, against a dark blue background. The machine has a control panel on the left with a digital display showing a chromatogram and various parameters. The INNTEG logo and model number "GC-5000C" are visible on the front of the unit.

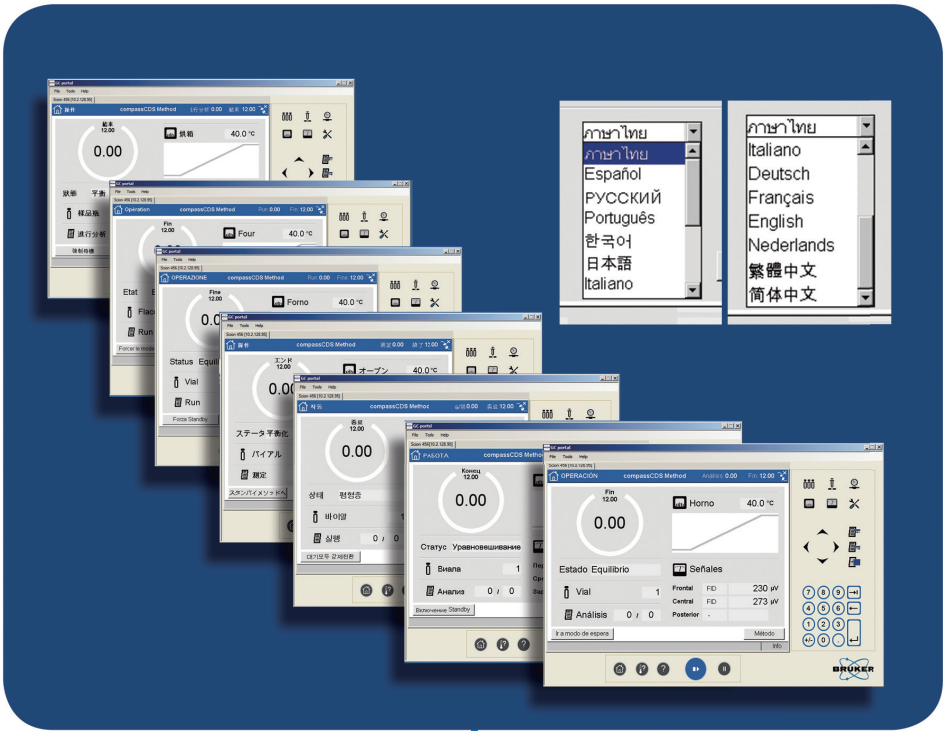
INNTEG
Innovation • Accuracy • Reliability

• The Best Choice for GC Separation

GC 5000C Gas Chromatography

Innovation in Gas Chromatography

INNOTEG' 5000C Gas Chromatographs achieves a perfect combination of innovation and reliability. By understanding and then designing to exceed the most critical performance and reliability needs of GC users. The instruments have been designed to meet the most critical requirements of the users - reliable performance, ease of use, and simple maintenance.



Local User Interface

Users can navigate effortlessly through all GC setup and control functions using the large, high resolution color touch display. Available in 13 languages to facilitate localized training, operation and support.

Fast, Flexible Detection

GC-5000C' comprehensive range of detectors deliver industry leading sensitivity, ease of operation and outstanding reliability. All Scion GC detectors feature rapid data sampling rates (600 Hz), essential for high speed, high resolution separations.

Enhanced Operator Benefits

GC-5000C range meets virtually all application requirements. All GC-5000Cs are equipped with high resolution Electronic Flow Control to ensure retention time precision. Whatever the requirement, we have the solution.

Connectivity and Control from Anywhere

Using either the GC Portal interface or the industry leading CompassCDS software, users can easily control and monitor GC hard-ware from remote locations.

Hydrogen Carrier Ready

All GC-5000Cs are capable of using hydrogen as a carrier gas and carry ATEX explosion safety certification. These GCs can also be fitted with hydrogen safety systems, providing users with additional security.

Complete Standard Solutions

The standard solutions provided by GC-5000C are configured and tested with reference to widely used industry standard methods (such as ASTM, UOP, EN, ISO, GPA) in order to save customers' time and ensure the reliability of the results. Standard solutions ensure that the performance specifications required by standard methods can be achieved. The complete scheme includes:

- ◆ Required hardware
- ◆ Software (including plug-ins for special applications)
- ◆ Pre-installation analysis method
- ◆ Test spectrum
- ◆ Installation/Acceptance Data
- ◆ User files customized for special methods





GC—5000C Benefits

- ◆ Multi-language User Interface
- ◆ Advanced EFC Capability High Pressure
- ◆ Injection
- ◆ Inert Flow Path
- ◆ Backflush Capability Constant Linear
- ◆ Velocity Mode 600 Hz Data Rate
- ◆ CompassCDS Software

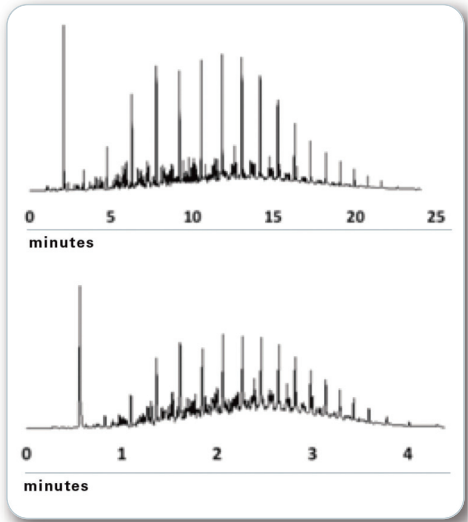
- Solution Platform
- Extremely flexible
- Four-channel design

Increased Productivity

We provide unrivaled expertise in building robust instruments and creating customized solutions that enhance productivity. With complete control of design, manufacture and testing, INNOTEK is able to guarantee that the quality and technological excellence of its products is of the highest standard.

Speed increased by a factor 6.5

- ◆ Small ID from 0.25 to 0.1mm
- ◆ Short column from 15 to 4 mtr
- ◆ Increased ramp from 10 to 65 °C/min
- ◆ Data rate from 25 to 200 Hz

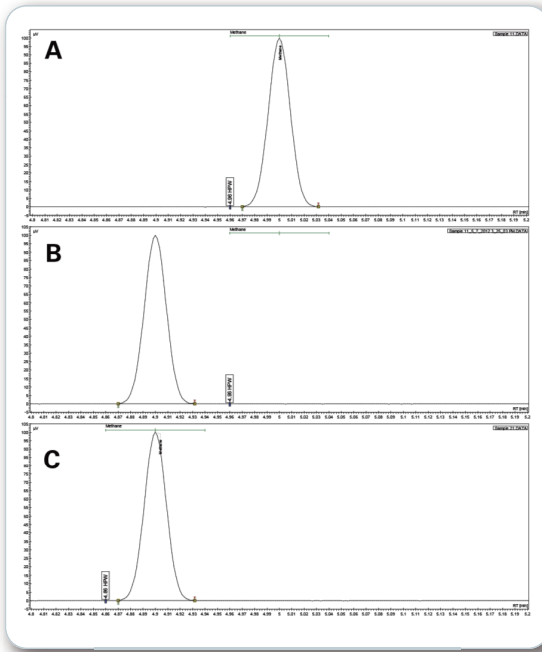


Fast Cycle Times

Reducing the time between injections can considerably improve productivity. The high performance oven incorporates features designed to ensure rapid heating and cooling for maximum productivity. This, in conjunction with high pressure injectors and ultra narrow bore columns significantly reduces analysis cycle times with no loss of performance.

IntelliUpdate

Instrument and system effects (column aging, matrix etc.) can cause experimental deviations such as retention time shifts. The CompassCDS IntelliUpdate function can be used to automatically correct and compensate for such deviations. This is accomplished without having to make any changes to instrument control parameters and ensures users obtain consistently accurate results.



A: Methane peak eluting at 5.00 minutes automatically identified with associated Halve Peak Width timed event at 4.96 minutes.

B: Methane peak eluting 0.1 minutes later due to column deterioration over time with peak no longer identified and timed event missed as software has not compensated.

C: IntelliUpdate feature automatically updates peak Retention Time and timed event tables after each run to compensate for peak and timed event migration.

Capability and Automation

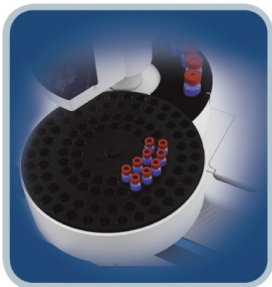
INNOTEK offers a detector and injector range that meets virtually all application and market requirements. All come standard with advanced EFC. Whatever the requirement, be it Split/Splitless or Packed injection, we have the solution.

Additions to Enhance System Capability and Performance

INNOTEK can provide automated solutions to meet your needs regardless of your sample throughput. There are three kinds of samplers to choose from, CP-8400, CP-8410 automatic sampler and other multi-functional automatic samplers such as GERSTEL. Each can be tailored to meet different analytical needs and sample throughput requirements.



- ◆ Pass ATEX certification
- ◆ Supporting H2 as carrier gas
- ◆ Ensuring the personal safety of operators
- ◆ If there is an explosion, no parts will fly out



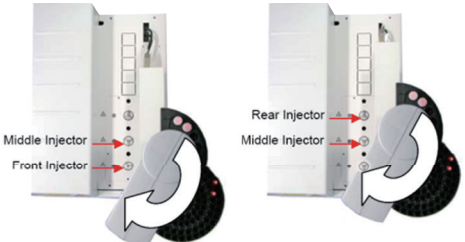
CP-8400

High throughput
100 x 2ml sample
capacity Dual/Duplicate
Injection SPME



CP-8410

Flexibility
Accommodates 2, 5, 10
ml vials Low cost/high
performance Ease of use



84X0 Automatic Sampler - High Flexibility, Easy Maintenance

- ◆ It can be injected into two adjacent inlets.
- ◆ Only one injection tower is needed.
- ◆ Full control through operation panel.
- ◆ Complete control through workstation.
- ◆ There is no need to disassemble the automatic injector when maintaining the injection port.