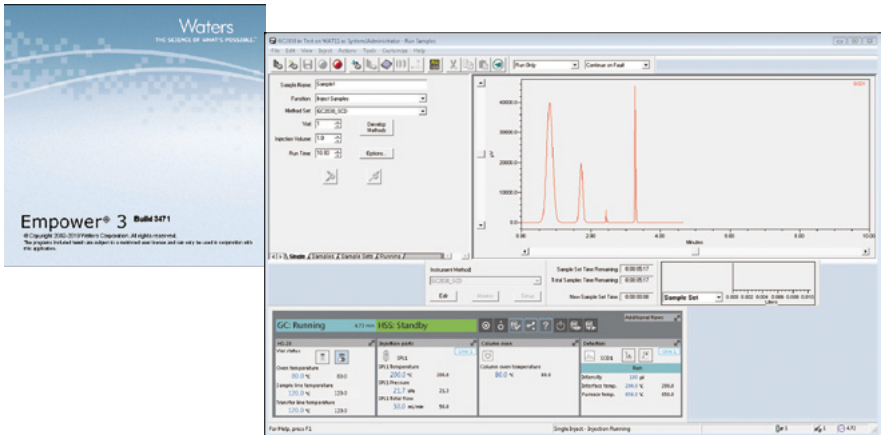
SHIMADZU
Excellence in Science



AOC™-30 Series Autoinjectors can Now be Controlled and Packed Column Analysis can Now be Performed from Waters Empower Software

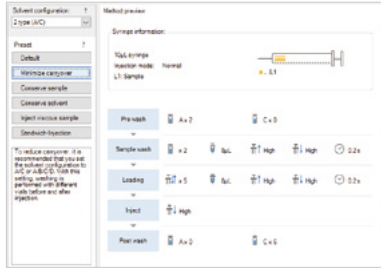
Shimadzu GC Driver Ver. 3.2 with Waters Empower™ Compatibility

Waters Empower chromatography data systems can now be used to control AOC-30 autoinjectors in Shimadzu Nexis™ GC-2030 systems and perform packed column analysis. Space-saving AOC-30 systems offer reliable and long-term performance, and support capillary/packed column analysis using only a single GC-2030 system.

Control of New Space-Saving and Highly Reliable AOC-30 Autoinjectors

AOC-30 systems support automatic analysis of up to 30 samples using a single tower. In combination with a GC-2030 system, the design results in a space-saving system only 553 mm wide. 4 mL bottles of up to four types of rinse solvents can be loaded for enhanced rinsing functionality that maintains high analytical performance for long periods. The analytical method editing window features the Sample Navigator. With Sample Navigator, methods prepared by experts in GC can be created with a single click. Systems can be expanded to hold up to 150 samples and 12 rinse solvent bottles by adding samplers to accommodate increased analytical capacity.

AOC™-30



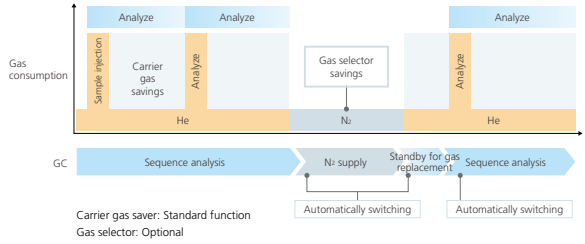
ANALYTICAL INTELLIGENCE
Sampler Navigator

The Same System can Be Used for Both Headspace and Capillary/Packed Analysis

A single GC-2030 system can be used for both capillary analysis with a headspace sampler or capillary/packed analysis with an autoinjector. The system configuration can be changed easily when setting up the analytical method, with no complicated setting operations required.

Minimizes Helium Gas Usage

By installing an optional gas selector in the GC-2030 system, the analytical method or Empower window operations can be used to switch between carrier gases. That means helium consumption can be minimized by switching to a substitute carrier gas after sequencing analysis is finished.



Carrier gas saver: Standard function
Gas selector: Optional

Controllable Hardware

GC unit **Nexis GC-2030, GC-2010, GC-2010 Plus, GC-2010 Pro, GC-2014, GC-2014c**

Options **AOC-30i autoinjector, AOC-20i (Plus) autoinjector, AOC-20s (U) autosampler, HS-20 (NX) headspace sampler, HS-10 headspace sampler**

Nexis GC-2030

Unit	Description
Sample Injector	SPL-2030, WBI-2030, OCI-2030, PTV-2030, SINJ-2030
Detector	FID-2030, TCD-2030, ECD-2010 Exceed, FPD-2030, FTD-2030, BID-2030, SCD-2030, PTCD-2030
Advanced Flow Technology	Backflush, detector splitting, detector switching, heart-cut system
Additional Temperature Controller	AUX temperature control unit
Additional Flow Controller	APC (3 auxiliary channels), APC (1 auxiliary channel)
Options	Gas selector Low-temperature control solenoid valve set: CRG-2030 External equipment control relay PRG-2010 Plus, PRG BOX

GC-2010 (Plus/Pro) and GC-2014 (c)

Unit	Description
Sample Injector	**GC-2010 (Plus/Pro):** SPL-2010 (Plus), WBI-2010 (Plus), OCI/PTV-2010 (Plus) **GC-2014 (c)** : SPL-2014, WBI-2014, DINJ-2014, SINJ-2014
Detector	**GC-2010 (Plus/Pro):** FID-2010 (Plus), TCD-2010 (Plus), ECD-2010 Exceed, ECD-2010 (Plus), FPD-2010 (Plus), FTD-2010 (Plus), BID-2010 Plus **GC-2014 (c)** : FID-2014, TCD-2014, ECD-2014, FPD-2014, FTD-2014 (C)
Additional Temperature Controller	AUX temperature control unit
Additional Flow Controller	APC (3 auxiliary channels), AMC (2 auxiliary channels) Note: AMC is an option for the GC-2014.
Options	Low-temperature control solenoid valve set: CRG-2010 External unit control relay: PRG-2010 (Plus), PRG BOX

- Dual-injection systems are not supported.
- Up to four Shimadzu GC units can be controlled on one data acquisition server (e.g. LAC/E^{32}).
- Both the Shimadzu LC driver and Shimadzu GC driver for Empower can be installed on one computer or data acquisition server.
- A Shimadzu GC system and Agilent GC system cannot be connected to the same data acquisition server (e.g. LAC/E^{32}) at the same time. Provide a data acquisition server dedicated for the Shimadzu GC system.

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