SHIMADZU
Excellence in Science

Enables the Brevis™ GC-2050 to be Controlled by Waters™ Empower™

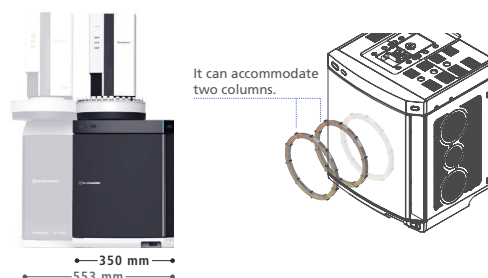# Shimadzu GC Driver for Waters Empower

Brevis™ GC-2050   Nexis™ GC-2030

▮▮ Enables Control of the Brevis GC-2050, a System that Offers Uncompromised Analytical Performance in a Small Footprint

The compact Brevis GC-2050, with a system width of 350 mm including the autoinjector (AOC™-30i), enables even more efficient use of laboratory space. Compared to the same configuration of the Nexis GC-2030, the system width has been reduced by approximately 35 %. Despite its compact design, the instrument accommodates two industry-standard 7-inch capillary columns and also allows for seamless switching between AOC and HS-20 analysis.
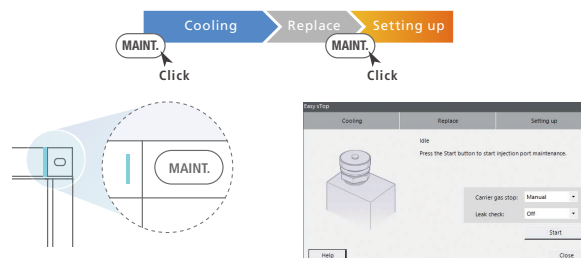
It can accommodate two columns.

350 mm
553 mm

▮▮ Facilitates Easy Daily Maintenance with Support for the Easy sTop Function

ANALYTICAL INTELLIGENCE

The GC-2050 is equipped with a function (Easy sTop) that automatically lowers the GC inlet temperature and simplifies liner (consumable) replacement by simply pressing the MAINT. button on the upper right of the GC front panel. It can also be operated from the Empower window, helping to ensure a convenient workflow in the lab.
Note: Operating the Easy sTop function from Empower is possible with both the GC-2030 and GC-2050.
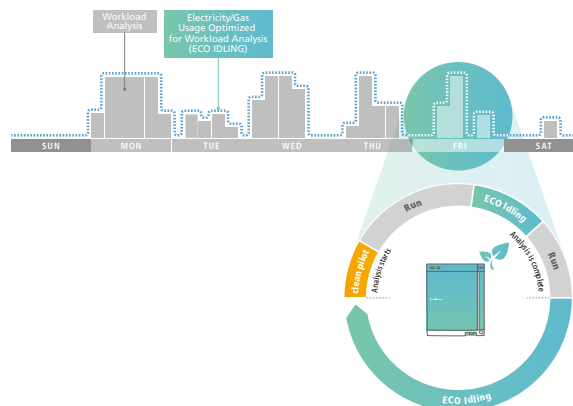
Cooling   Replace   Setting up
MAINT. Click   MAINT. Click
MAINT.

▮▮ Eco Idling for Eco-Friendly Analysis – Now with Automatic Eco Mode Support

ANALYTICAL INTELLIGENCE

The system learns the analysis patterns and visualizes the workload, while also suggesting an eco-friendly operation schedule. During analysis, it delivers high performance, and when idle, it automatically switches to an energy-saving ECO idling mode, balancing both analytical tasks and eco-efficiency.
Note: Compatible with GC-2030 and GC-2050.

Workload Analysis
Electricity/Gas Usage Optimized for Workload Analysis (ECO IDLING)
SUN   MON   TUE   WED   THU   FRI   SAT

⧈ Controllable Hardware

GC Unit	Nexis GC-2030, Brevis GC-2050, GC-2010 Plus, GC-2010 Pro, GC-2010, GC-2014, GC-2014C
Options	AOC-30i, AOC-20i (Plus) autoinjector, AOC-20s (U) autosampler, HS-20 (NX)/HS-10 headspace sampler

Nexis GC-2030 and Brevis GC-2050

Unit	Device name
Sample Injector	**GC-2030** : SPL-2030, WBI-2030, OCI-2030 (NX), PTV-2030, SINJ-2030, SPI-U(1.0)
	GC-2050 : SPL-U(1.0), PTV-U(1.0), WBI-U(1.0), OCI NX-U(1.0), SINJ-U(1.0), SPI-U(1.0)
Detector	**GC-2030** : FID-2030, TCD-2030, ECD-2010 Exceed, FPD-2030, FTD-2030, BID-2030, SCD-2030, PTCD-2030, AB BOARD
	GC-2050 : FID-U(1.0), FPD-U(1.0), ECD-2010 Exceed U, FTD-U(1.0), BID-U(1.0), STCD-U(1.0), AB BOARD
Advanced Flow Technology	**GC-2030** : Backflush, detector splitting, detector switching, heart-cut system
	GC-2050 : Backflush, detector splitting
Additional Temperature Controller	**GC-2030** : Auxiliary temperature control unit
	GC-2050 : Auxiliary temperature control unit
Additional Flow Controller	**GC-2030** : APC (3 auxiliary channels), APC (1 auxiliary channel)
	GC-2050 : APC (3 auxiliary channels), APC (1 auxiliary channel)
Options	**GC-2030** : Gas selector, Low-temperature control solenoid valve set CRG-2030, External equipment control relay PGC-2030, PRG Box
	GC-2050 : Gas selector, Low-temperature control solenoid valve set CRG-2030, PRG-2030, 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, AB BOARD **GC-2014 (C)** : FID-2014, TCD-2014, ECD-2014, FPD-2014, FTD-2014 (C), AB BOARD
Additional Temperature Controller	**GC-2030** : Auxiliary temperature control unit
	GC-2050 : Auxiliary 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 (e.g., LAC/E[32])
- A Shimadzu instrument and third-party instrument 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 Shimadzu instruments.

⧩ ANALYTICAL INTELLIGENCE

- Automated support functions utilizing digital technologies, such as M2M, IoT, and Artificial Intelligence (AI), that enable higher productivity and maximum reliability.
- Allows a system to monitor and diagnose itself, handle any issues during data acquisition without user input, and automatically behave as if it were operated by an expert.
- Supports the acquisition of high quality, reproducible data regardless of an operator's skill level for both routine and demanding applications.

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