SHIMADZU
Excellence in Science

Enables the Brevis™ GC-2050 to be Controlled by Thermo Scientific™ Dionex™ Chromeleon™ 7

Shimadzu GC Driver for Chromeleon 7

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 can accommodate two industry-standard 7-inch capillary columns, and it also supports dual-line simultaneous analysis as well as seamless switching between AOC and HS-20 analysis.

It can accommodate two columns.

350 mm
553 mm
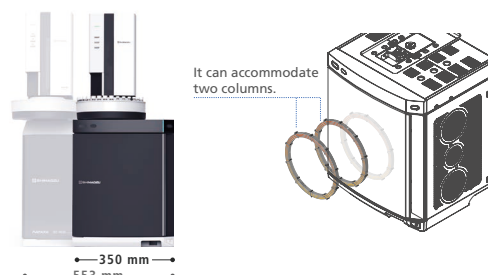
▪▪ Facilitates Easy Daily Maintenance with Support for the Easy sTop Function

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 Chromeleon window, helping to ensure a convenient workflow in the lab.
Note: Operating the Easy sTop function from Chromeleon is possible with both the GC-2030 and GC-2050.
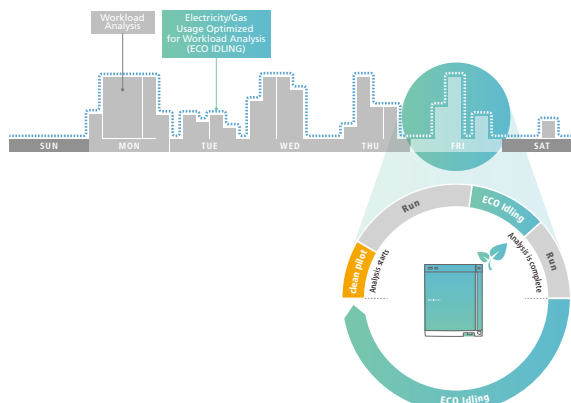
Cooling → Replace → Setting up

MAINT. Click   MAINT. Click

MAINT.
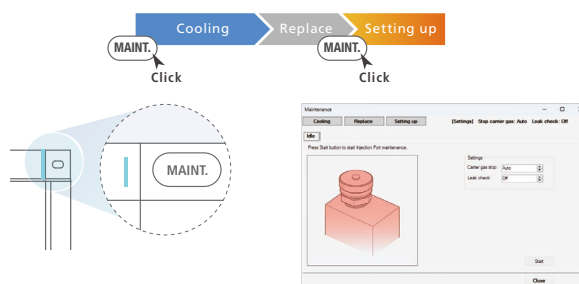
▪▪ Eco Idling for Eco-Friendly Analysis – Now with Automatic Eco Mode Support

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

Run   ECO Idling   Analysis complete   Run   ECO Idling   clean pilot   Analysis starts

▪▪ Product Lineup

Description	Version
Shimadzu GC Driver for Chromeleon 7	**2.50**

Note: This product supports Nexis GC-2030, Brevis GC-2050 and HS-20/HS-10 system control and HS-20 standalone control.
GC-2010 (Plus/Pro) and GC-2014 (c) can be controlled using the Thermo Fisher Scientific Inc. driver provided with Chromeleon 7.

▪▪ Controllable Hardware

The Shimadzu GC Driver for Chromeleon 7 supports control of the following units.

GC Unit   Nexis GC-2030, Brevis GC-2050

Options   AOC-30i, AOC-20i (Plus) autoinjector, AOC-20s (U) autosampler, HS-20 (NX)/HS-10 headspace sampler, dual injection system

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, AD 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), AD 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

The following unit can be controlled using the Thermo Fisher Scientific driver included with Chromeleon 7.
By using the Shimadzu GC Driver for Chromeleon in conjunction with standalone control of the HS-20 headspace, the system consisting of both the GC and HS-20 (NX) can be controlled.

GC Unit   GC-2010 (Plus) and GC-2014

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

Unit	Device name
Sample Injection Port	**GC-2010 (Plus)** : SPL-2010 (Plus), OCI / PTV-2010 (Plus) **GC-2014**　　　　 : SPL-2014, DINJ-2014
Detector	**GC-2010 (Plus)** : FID-2010 (Plus), TCD-2010 (Plus), ECD-2010 (Plus), FPD-2010 (Plus), FTD-2010 (Plus) **GC-2014**　　　　 : DFID-2014, SFID-2014, TCD-2014, ECD-2014
Additional Flow Controller	**GC-2010 (Plus)** : APC (3 auxiliary channels)
Low-Temperature Oven Controller	**GC-2010 (Plus)** : CRG-2010 low-temperature control solenoid valve unit

Note: Up to six Shimadzu GC units can be controlled from a single instrument server.
It is not recommended to connect other vendor instruments to the same instrument server. Please prepare a dedicated server for controlling Shimadzu instruments.

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