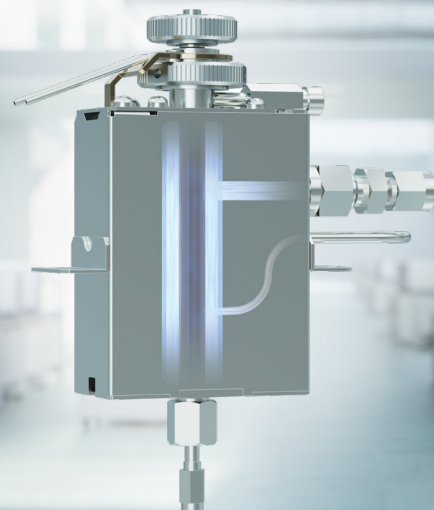


Accelerate Your Workflow With Shimadzu's *Fast Cooling* Multi-Mode Injection (MMI) In Nexis GC-2060



See MMI In Action — Watch The Video Now!



Reduce GC Maintenance W...
Nexis GC-2060 MM...
vs. Conventional



Scan here to learn how MMI
reduces maintenance
downtime and speeds up
analysis

Maximize Uptime In High-Throughput Labs

GC inlet maintenance is a major bottleneck for high-throughput labs running challenging samples. Shimadzu's new MMI eliminates this friction by combining rapid thermal control with a simplified design to dramatically cut servicing downtime — all while supporting five injection modes, including *SPL*, *PTV*, *LVI*, *Direct*, and *TD**.

Beat The Cooldown Delay

Routine maintenance on the liner, septa, and column is often delayed by how long it takes the injection inlet to cool down. Shimadzu's MMI eliminates this traditional bottleneck with advanced thermal control that speeds up cooling, allowing operators to perform maintenance and resume analysis with minimal delay.

Conventional GC inlet typically requires **tens of minutes** to cool to a safe temperature, extending maintenance downtime

After analysis completes, the temperature automatically reduce to a safe temperature within **five min**



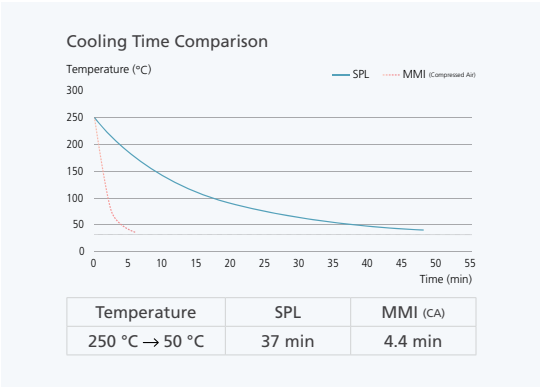
* *SPL* = Split / Splitless Injection, *PTV* = Programmed Temperature Vaporization, *LVI* = Large Volume Injection, *TD* = Thermal Desorption

* With natural cooling, MMI cools in about 15 minutes under the same condition; Cooling time may vary with room temperature and laboratory conditions.



Accelerated Cooling, Increased Efficiency

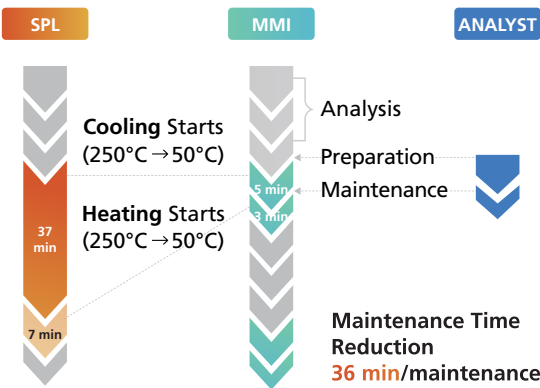
Shimadzu’s proprietary insulation technology keeps the MMI thermally stable during analysis while enabling significantly faster cooldowns than conventional SPL inlets. By reaching safe service temperatures rapidly between runs, the MMI minimizes downtime during routine maintenance and sample prep — **Delivering a clear boost to overall laboratory throughput.**



Boost Lab Profitability By Accelerating Maintenance With Shimadzu’s MMI’s Speed

Cutting instrument downtime ensures uninterrupted analysis, allowing laboratories to achieve higher profitability. Using an environmental lab as an example, Shimadzu’s MMI accelerates workflows with faster cooldowns and a rapid 3 min post-servicing temperature ramp, compared to 7 min with a conventional SPL.

For a standard 15 min analysis cycle across 100 servicing events per year, this time saved unlocks significant capacity for additional annual injections, directly increasing profit.



Up to \$6,000 In Reclaimed Annual Profit

Compared to a conventional SPL, Shimadzu’s MMI reduces downtime by 36 minutes per maintenance event, recovering 3,600 minutes annually. Utilizing this saved time for additional analyses can generate an **estimated annual profit increase of approximately \$6,000.**

Even without enabling the rapid cooling option, the MMI still reclaims 2,600 minutes per year, delivering an **estimated profit increase of approximately \$4,300.**

Parameter	Value	How it's Calculated
Maintenance Frequency (septa, liner, column)	100 times /year	50 weeks X 2 times /week
Maintenance Time Saved With Shimadzu MMI	3,600 minutes /year	36 minutes /session X 100 sessions
Analysis Cycle Time	15 minutes /sample	
Additional Samples Capacity Enabled by Shimadzu MMI	240 samples /year	3,600 minutes X 15 minutes /sample
Cost Per Sample	\$125	
Sales Growth With Shimadzu MMI	\$30,000 /year	240 samples X \$125
Laboratory Profit Margin	20%	
Profit Increase Achieved Through Shimadzu MMI	\$6,000 /year	\$30,000 X 20%



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