

Thermo Scientific Accela Open Autosampler

Flexibility and performance

The Thermo Scientific Accela Open Autosampler offers an open and modular architecture with a stackable design for maximum application flexibility with fast sample cycles, outstanding reproducibility and extremely low carryover.

- Maximum flexibility with unmatched reliability and robustness
- Customizable temperature controlled sample formats
- Integrated Dynamic Load and Wash capability resulting in extremely low carryover (0.003% chlorhexidine)
- Saves precious bench space with a customizable open frame architecture in a stackable design.

Automated and Versatile Sampling with Maximum Flexibility

The Thermo Scientific Accela Open Autosampler provides a versatile automatic open architecture sampling platform for easy access to samples, syringe, valves, injection ports, etc. The autosampler configuration can be easily adapted for any LC and LC-MS application. The Accela™ Open Autosampler is designed to carry out sample injections in a completely automatic and reliable manner. A maximum of 6 deep well microplates, 12 standard microtiter plates, or 324 (2.0 mL) vials can be accommodated with controlled sample temperature between 0 °C and 40 °C. The Accela Open Autosampler comes equipped with a ultra high pressure (18,000 psi) injection valve and offers the possibility of adding up to two other additional valves, arranged in a vertical stack, that can be used as switching valves.

Dynamic Load and Wash

The Accela Open Autosampler comes equipped with Dynamic Load and Wash (DLW) providing an efficient way of reducing carryover even when working with complex samples. In the Accela Open Autosampler samples are not in contact with the syringe, as it is the case with other open frame autosamplers. This is accomplished by employing a holding loop between the syringe and the injector port. This configuration allows the entire sample path (including the injection valve) to be effectively washed, employing up to two different washing solvents that are delivered by integrated micro pumps. Wash timing for each solvent and wash cycle options (such as external needle wash with none, one, or two solvents) are software selectable. The use of DLW in the Accela Open Autosampler results in extremely low carryover (0.003% for chlorhexidine).

Software Control

The Accela Open Autosampler can be controlled by Thermo Scientific ChromQuest Chromatography Data System and Thermo Scientific Xcalibur Mass Spectrometry Data System and other multi vendor software solutions. Thermo Scientific software solutions provide computer control of the autosampler to ensure automated control and data handling of the system.

Thermo Scientific
Accela Open Autosampler



Thermo Scientific Xcalibur Data System

Xcalibur™ is an extremely versatile, easy-to-use mass spectrometry data system with tools for 21 CFR Part 11 compliance. Whether the user is a lab manager or a technician, Xcalibur's Home Page offers easy navigation through the process of instrument setup, sequence setup, and data acquisition. Data analysis is simplified using any of the three browser environments: Qual Browser, Quan Browser, and Library Browser. Reporting is straightforward and effortless with the intuitive XReport software. Thermo Scientific LCQUAN quantitation software provides a structured and secure workflow. When operating the Accela system as part of an LC-MS solution, use Xcalibur for complete instrument control and mass spectrometer data handling.

Thermo Scientific ChromQuest Chromatography Data System

ChromQuest™ offers maximum flexibility and efficiency in setting up chromatographic methods and optimizing the performance of the Accela LC system. ChromQuest protects your results by ensuring data traceability and integrity with enhanced security features, electronic documentation, and features for 21 CFR Part 11 compliance. Sophisticated analytical tools facilitate high sample throughput and powerful data processing for liquid chromatography.

ChromQuest maximizes laboratory efficiency with project management for information storage and transfer. ChromQuest uses robust integration, flexible calibration routines, and advanced spectral analysis tools to accelerate data analysis and results generation. When operating the Accela LC system as a stand alone LC solution, use ChromQuest for complete instrument control and data handling.

Certification and Qualification Services

Every system is tested at the factory prior to shipment to ensure that it meets or exceeds performance specifications. A Declaration of Conformity (DC) accompanies each pump and documents test results. On-site field testing (optional) qualifies system performance.

Specifications

Vial Capacity

324 vials (2.0 mL)
Twelve 96- or 384-well plates
Six 96- or 384-deep well plates

Reproducibility

< 1% RSD (partial loop)

Sample Carryover

< .003% clorhexidine (with two wash solutions) and UV detection (257 nm)

Typical Clean Cycle Time

Less than 1 minute for Fast Cycle

Tray Temperature Control

4–40 °C

Communications

Remote Inputs

Pump Ready and Inject Hold

Remote Outputs

Pump Stop, Autosampler Ready, Inject, and Gradient Start

4 Timed Events

Syringe Size

100 µL
Optional syringe sizes available (10–5000 µL)

Maximum Operating Pressure

18,000 psi

Ambient Environment

4–40 °C, 5–80% relative humidity, (non condensing)

Dimensions

37 × 36 × 50 cm (H × W × D)

Weight

10 kg

Power Requirements

100/120/220/240 VAC nominal;
120 W; 50 to 60 Hz

Product Certification

EMC
CE
TUV CUS
FCC (EMI)

Ordering Information

Part Number	Description
60057-60110	Accela 600 Pump
60057-60111	Accela 1250 Pump
60057-60140	Accela PDA with 1 cm LightPipe™ flow cell
60057-60141	Accela PDA with 5 cm LightPipe flow cell
60057-60060	Accela System Kit
60057-60070	Thermo Scientific Hypersil GOLD, 50 × 2.1 mm, 1.9 µm column

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