

The Accela High Speed Autosampler's optimized sample pathway ensures fast chromatographic separations. Complete temperature management enables the user to control the temperature of the sample, mobile phase, injector valve, and column, providing maximum reproducibility.

Accela™ Autosampler

- Optimized for high-throughput applications and sub two micron column particles
- Isothermal injection and separation
- Multiple sample formats with 200 vials or 3 multi-well plates
- Specialized diamond coated high pressure valve
- Easy access with door mounted syringe

Isothermal Injection and Separation

The integrated temperature controlled column and valve compartment provides complete temperature control for superior separation efficiency and reproducibility. The 3 μL mobile phase preheater quickly and efficiently heats the mobile phase to the same temperature as the sample and column, 5–95 °C selectable in 1 °C increments. This temperature compartment enables the mobile phase and the sample to stay at one consistent temperature, eliminating all external environmental influences to the chromatography.



Maximum Flexibility

The flexibility of the Accela Autosampler is maximized with the ability to accommodate multiple sample formats and multiple injection modes. This autosampler holds 200 standard 1.8 mL sample vials or three 96- or 384-well plates allowing a maximum of 1,152 samples. Multiple injection modes provide the user the flexibility to choose the best injection mode for their sample and method. *Full loop injection mode* delivers a sample that is commensurate with the sample loop. *Partial loop injection mode* enables the user to choose the exact amount of sample to deliver. *No waste injection mode* preserves limited sample by enabling the user to inject 1 μL from as small as 5 μL of sample.

The Accela Autosampler's uniquely designed door mounted syringe provides easy access to the sample vials, wash station, and needle. The column holder enables one-handed column placement, providing fast and easy exchange of columns. This easy-to-use column holder allows for multiple column lengths and diameters.

Sample Temperature Control

The Accela Autosampler provides integrated sample temperature control for a stable and uniform sampling environment. Method optimization is maximized with the ability to heat or cool the samples, 0–60 °C selectable in 1 °C increments. Integrated temperature management minimizes the effects of ambient temperature fluctuations.

Software Control

The Accela Autosampler can be controlled as a component of the Accela High Speed LC by either the Thermo Scientific ChromQuest™ Chromatography Data System or the Xcalibur™ Mass Spectrometry Data System. Both software solutions provide computer control of the autosampler to ensure automated data handling of the high speed system.

Xcalibur™ Data System

Xcalibur is a very versatile, easy-to-use mass spectrometry data system with 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. LCQuan™ quantitation software provides the customer with a structured and secure workflow. When operating the Accela High Speed LC system as part of an LC/MS solution, use Xcalibur for the complete instrument control and mass spectrometer data handling.

ChromQuest™ Chromatography Data System

ChromQuest offers maximum flexibility and efficiency in setting up and maintaining the performance of Accela as a high speed LC system. ChromQuest protects your results by ensuring data traceability and integrity with enhanced security features and electronic documentation. 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. Along with accelerating data analysis and results generation, ChromQuest uses robust integration, flexible calibration routines, and advanced spectral analysis tools that help avoid the unexpected. When operating the Accela High Speed LC system as a stand alone LC solution, use ChromQuest for complete instrument control and liquid chromatography data handling.

Certification and Validation Services

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

Specifications

Vial Capacity

200 vials with tray temperature control
Three 96- or 384-well plates

Variable Volume

Injection Precision: 1.0% RSD at 5 µL and higher

Minimum Sample Volume: 1 µL can be injected from a 5 µL sample

Injection Volume: 25 µL loop standard, up to 1000 µL injections with larger loops and syringe

Sample Carryover

< .005% with UV detection (254 nm) and a 1 mL 100% MeOH needle wash

Needle Height

Programmable in 0.1 mm increments.
Active vial bottom search selectable on/off

Column Oven

5–95 °C ± 0.5 °C selectable in 1 °C increments

Tray Temperature Control

0–60 °C ± 0.5 °C selectable in 1 °C increments

Communications

Remote Inputs: Pump Ready and Inject Hold

Remote Outputs: Pump Stop, Autosampler Ready, Inject, and Gradient Start

4 Timed Events

Remote Controls

Ethernet interface for PC-based software control

Sample Preparation

Capacity for four 15 mL reagent vials for flushing, washing, sample dilution, and/or reagents for sample derivatization

Ambient Environment

10–40 °C, 5–95% relative humidity, non condensing

Operating Temperature

10 °C to 40 °C

Dimensions

37 × 36 × 50 cm (H × W × D)

Weight

30 kg

Power Requirements

100/120/220/240 Vac nominal;
550 VA, 50/60 Hz

Product Certification

EMC
CE
TUV-C/US
FCC (EMI)

Ordering Information

Part Number	Description
60057-60030	Accela LC System
60057-60040	Accela PDA with 1 cm LightPipe™ flow cell
60057-60050	Accela PDA with 5 cm LightPipe flow cell
60057-60060	Accela System Kit
60057-60070	Hypersil GOLD™, 50 × 2.1 mm, 1.9 µm column

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