

1290 Infinity II

Технические характеристики

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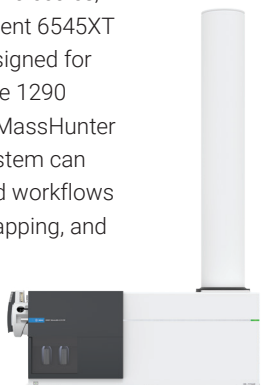
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For Your Most Complex Biopharma Needs

The 1290 Infinity II Bio LC System provides all the advantages of a 1290 Infinity II LC, plus a biocompatible flow path for high-performance analysis of critical quality attributes in biopharma. The system gives flexibility in a constantly changing environment, and facilitates method transfer from legacy instruments.

Expand your scope with LC/MS

Whether analyzing large biomolecules, peptides, or glycans, the Agilent 6545XT AdvanceBio LC/Q-TOF is designed for biopharma. Together with the 1290 Infinity II Bio LC and Agilent MassHunter BioConfirm software, the system can be used to realize automated workflows for intact protein, peptide mapping, and glycan analysis.

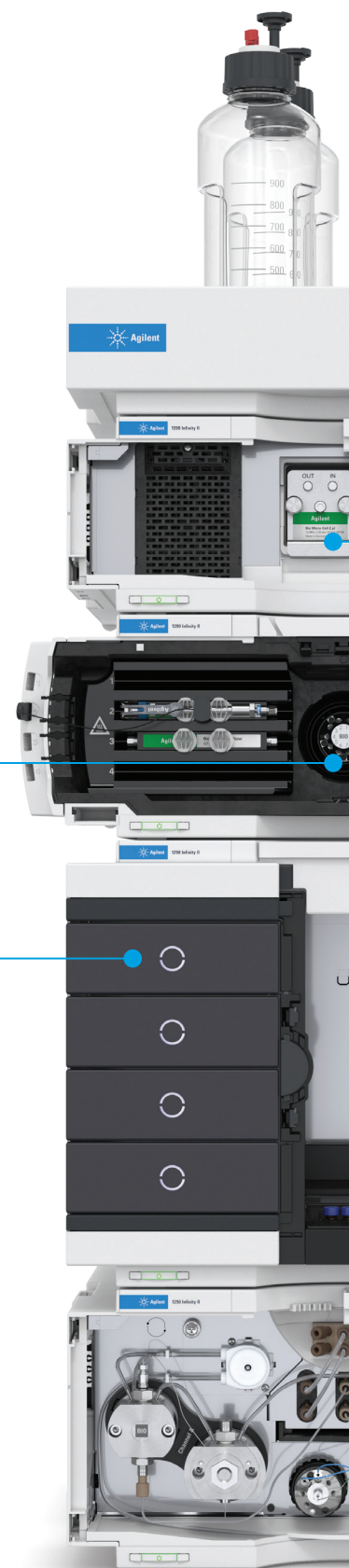


Biocompatible valve automation

InfinityLab Quick Change Valves enable sample enrichment and clean up, automated column regeneration, and enhanced system flushing ability.

Built-in sampling versatility

The 1290 Infinity II Bio Multisampler allows for adaptable injection volumes, thermostating of temperature-sensitive bio-analytes, and ultralow carryover.





BIO

Multiple detection options

Choose from a wide range of sensitive optical detection capabilities with a variety of flow cells, including variable wavelength, diode array and fluorescence detectors, and the Bio-MDS System.

Versatile column handling

The 1290 Infinity II MCT, featuring the Thermal Equilibration Device, gives high temperature stability for the most challenging applications, together with various bio heat exchangers, Quick Change and Quick Connect capillaries, fittings, and kits.



Reliable solvent delivery

Built for robustness under the harsh conditions of high salt or high/low pH, the 1290 Infinity II Bio High-Speed Pump maintains precise flow rates at pressures up to 1300 bar for demanding applications such as long, shallow gradients or high throughput.

Agilent
OpenLab

Master your chromatography

Controlled through Agilent OpenLab software, InfinityLab LC Series instruments support your efforts to optimize your bioanalysis LC workflows by reducing the time you spend on data processing, review, and reporting.

Agilent
CrossLab

Boost your lab operations

Agilent CrossLab integrates services, software, and consumables to help you improve your lab's efficiency and productivity. You gain access to a global team of scientific and technical experts who help deliver vital insights through classroom, and virtual education programs at Agilent University for every level of the lab environment.

Advanced column performance

Agilent AdvanceBio LC columns are designed for the analysis of biotherapeutics, from discovery to QA/QC. For UV quantitation or MS analysis, and from conventional stainless-steel columns to newly introduced, fully bio-inert columns, we have products optimized to suit your application needs and instrument capabilities.



1290 Infinity II 2D-LC System

If you want to solve complex separations, analyze complex samples, or simplify complex workflows, Agilent InfinityLab 2D-LC Solutions help you separate co-eluting compounds and achieve highest peak capacity. Increase resolution where you need it with heart-cutting and high-resolution sampling or comprehensive 2D-LC for complex mixtures. Use 2D-LC for making buffer separations compatible to MS detection.

Analyze samples qualitatively or quantitatively with the performance, reproducibility, and robustness of Agilent 1290 Infinity II Systems. Easy-to-use software enables fast method setup and refined data analysis. Dozens of application notes and 2D-LC training sessions support you in getting the full 2D experience.



| Features

- From separation of a few co-eluting compounds to mixtures of highest complexity - Agilent 2D-LC Solutions allow you to do 2D-LC your way, choosing from 2D-LC modes (multiple) heart-cutting with high-resolution sampling and comprehensive 2D-LC
- Separate thousands of compounds with a single measurement
- Set up measurements easily with powerful Agilent 2D-LC software. Start with your 1D measurement, choose spots where you want to increase resolution, draw your second dimension gradient, and go
- Get all the information you need from your sample from qualitative results, including spectral data up to reproducible quantitative results
- Use 1290 Infinity II Systems and dedicated 2D-LC valve technology for UHPLC performance, fast gradients, high sensitivity, and excellent robustness
- Combine first and second dimension solvents and gradients as you like using Agilent Active Solvent Modulation Technology
- Upgrade your 1D Agilent LC system easily to the second dimension for better resolution
- Start working with 2D-LC today using application notes in many areas such as pharmaceuticals, biopharmaceuticals, chemicals, fuels, food, and many others
- Get dedicated 2D-LC training and services for highest productivity in your lab
- Replace multiple one-dimensional separations by one two-dimensional separation for better results in less time

1290 Infinity II GPC/SEC System

The 1290 Infinity II GPC/SEC System is a complete GPC/SEC analysis solution that is capable of both analytical- or microscale operation. The low-volume refractive index detector enables microscale operation, which offers several key benefits, including shorter run times for higher sample throughput, ultralow dispersion for improved resolution, and lower solvent usage and waste disposal in order to reduce costs.

Coupling with the Openlab GPC software enables archiving of all data together in a single CFR compliant environment.



| Features

- Microscale operation - run times can be reduced by as much as 70%
- Improved resolution - impurities or oligomers can be detected, which are often missed when using conventional GPC
- Excellent reproducibility for consistent results
- Minimized column diameter means solvent savings up to 80% for reduced cost of analysis
- High-pore-volume columns with small-diameter particles reduce analysis time while improving resolution
- Multipore columns enable linear column calibration - preventing dislocations and distorted peak shapes
- Analytical- and microscale operation - excellent agreement between molecular weight results proves suitability to run both modes on the same system

1290 Infinity II HDR-DAD Impurity Analyzer System

The 1290 Infinity II HDR-DAD Impurity Analyzer System has a 30 times higher dynamic range, 30 times higher UV sensitivity, plus UHPLC resolution and speed. Detect and quantify every component in your sample in a single run with superior area precision for low-level impurities.



1290 Infinity II HDR-DAD Impurity Analyzer System

| Features

- Reduce turnaround times and boost productivity. With the 30x wider linear UV-range of the 1290 Infinity II High Dynamic Range DAD System, the detector response from your sample will fit within your calibration range. No need for reanalysis, recalibration, or additional sample preparation steps
- Gain up to 30 times higher sensitivity for simultaneous analysis and quantification of main compounds and impurities. Gain more confidence in automated peak integration and achieve higher area precision for trace level components
- Higher resolution and speed. Extended power range that combines high pressure up to 1300 bar (1290 Infinity II LC) and high analytical flow rates up to 5 mL/min for maximum chromatographic performance
- Never miss a UV-active compound by monitoring the complete wavelength range simultaneously
- Don't miss any compound through combination with other detection options such as the 6100 Series single quadrupole LC/MS systems or 1290 Infinity II Evaporative Light Scattering Detector with 90x wider dynamic range
- Keep pace with fastest analysis speeds. Data rates up to 240 Hz with 1290 Infinity II DAD or 120 Hz with the 1290 Infinity II DAD FS

1290 Infinity II High-Throughput System

The 1290 Infinity II High-Throughput System achieves highest analysis speeds utilizing the autosampler capacity of up to 16 cooled microplates and shortest cycle times without compromising on the robustness you need for an ultrahigh-performance liquid chromatography (UHPLC) system.

This high-throughput UHPLC system boosts sample throughput through fastest analysis speeds and shortest injection cycles while the Agilent 1290 Infinity II Multisampler is designed to meet the requirements of high-throughput applications. The combination of a 1300 bar injection valve with the multiwash option facilitates short cycle times and lowest carryover – typically less than 0.0009% for chlorhexidine.



1290 Infinity II High-Throughput System

Features

- Infinite power range that combines ultrahigh pressure up to 1300 bar and high flow rates up to 5 mL/min for maximum chromatographic performance, speed, compatibility, and flexibility
- Agilent 1290 Infinity II High-Speed Pump combines active damping with a low 45 μ L delay volume
- 1290 Infinity II Multisampler is a compact 1300 bar compatible unit handling vials and up to 16 microplates (6,144 samples), cutting cycles times to five seconds, and reducing carryover to 9 ppm. All samples can be cooled efficiently
- Agilent InfinityLab Quick Change Valves integrated in the Agilent 1290 Infinity II Multicolumn Thermostat pave the way for ultrahigh throughput by saving column wash and regeneration time (alternating column regeneration) for shorter cycle time
- Agilent 1290 Infinity II Diode Array Detector includes the Agilent Max-Light cartridge flow cell, offering a new level of UV sensitivity and baseline robustness, including fast spectral acquisition at data rates up to 240 Hz
- Agilent quadrupole, TOF, TQ, or Q-TOF LC/MS for fast and sensitive determination of molecular weight and structure
- Agilent ZORBAX Rapid Resolution High Definition (1.8 μ m) LC columns with up to 1200 bar pressure stability for ultimate speed and resolution
- Agilent Lab Advisor software with intuitive diagnostic and monitor capabilities and alert functions to notify you of problems - helps you manage your laboratory for best chromatographic quality

1290 Infinity II Method Transfer System

The 1290 Infinity II Method Transfer System features intelligent system emulation technology (ISET), which is specifically designed for both HPLC and UHPLC method transfer. The 1290 Infinity II Method Transfer System will deliver similar retention times and peak resolution for methods that were developed on legacy HPLCs or UHPLCs from other vendors. Replace many LCs with a single 1290 Infinity II Method Transfer System and simplify user training and service while getting the same results.



| Features

- Intelligent system emulation technology (ISET) harnesses the wide power range and the superior accuracy and performance of the Agilent 1290 Infinity II LC to emulate other LC systems through a single mouse click
- Harmonize and derisk your user training, and service plans/parts and save on bench space by replacing many (U)HPLC systems with one 1290 Infinity II Method Transfer System
- Stock your laboratory with the latest UHPLC technology while still delivering the same HPLC results as in the past
- Experience seamless method transfer by using ISET to predict what chromatograms receiving labs will observe, independent of what provider of LCs they use
- Accelerate your instrument-to-instrument method transfer. Simply emulate the LC system on which the original method was developed and achieve the same retention times and peak resolution

1290 Infinity II Multi-Method System

The 1290 Infinity II Multi-Method System offers highest system utilization and automation with multiple method UHPLC capabilities for different users at the same system. This UHPLC Multi Method system hosts different methods on one system, backed by highest chromatographic performance, to give multiple scientists access to their personalized UHPLC methods.



Features

- Reduce manual system interaction to a minimum - automatically switch between different columns and solvents, and run your system unattended
- All your methods on one system - give multiple users access to their personal complex methods
- Combine the best from walk-up systems and expert LCs - profit from highest flexibility and highest analytical performance while improving instrument uptime by serving multiple users
- 1290 Infinity II LC technology - run your most challenging methods at up to 1300 bar and use Blend Assist software to mix solvents and buffers dynamically from stock solutions within a run
- Reduce the number of your LC systems - utilize one UHPLC system for multiple users
- Configure your 1290 Infinity II Multisampler with the dual-needle option - switch between applications using independent injection paths, for example, when sequentially measuring challenging matrices or when requiring sample clean-up

Specifications

Column Capacity	8 (up to 32 if clustering multiple MCTs)	
Column ID Reader Option	Yes	
Depth	468 mm	
Flow Range	up to 5 mL/min with G7120A and G7104A	
Injection Range	0.1-100 µL	0.1 to 1500 µL with Multi Draw Kit
Intelligent System Emulation Technology	Optional	
Line Voltage	100-240 VAC	
Maximum Number of Solvents	up to 26 with two external solvent selection valves (recommended)	
Maximum Number of Temperature Zones	2 (up to 8 if clustering up to 4 MCTs)	
Pump Type	Binary	Flexible
Special Features	Blend Assist with G7104A	
System Pressure Operating Range	up to 1300 bar	
Width	435 mm	

1290 Infinity II Online SPE System

The 1290 Infinity II Online SPE system offers automated solid phase extraction to enrich analytes, remove matrix components or lower detection limits, for example for trace-level water analysis.

This online SPE system provides the flexibility to match virtually any analytical challenge. Leverage from Agilent Quick Change Valve technology to alternate between two reusable SPE cartridges or use SPE and direct injection on the same instrument without the need of replumbing or changing the valves. Combined with the Agilent 6400 series triple quadrupole mass spectrometers, the InfinityLab Online SPE Solutions take you into a new dimension of ulralow, trace-level detection.



| Features

- Automate your workflow for SPE sample prep - avoid errors and increase throughput
- Having sample preparation, LC, and MS/MS analysis online in a single effort - save time and costs
- Enrich your analyte to reach lowest detection limits and increase certainty in your analysis
- Leverage from the full flexibility of tailored online SPE kits, such as the Online SPE Starter Kit, Direct Injection Kit, or High Volume Injection Kit to meet your specific SPE challenges
- Benefit from a complete one-vendor solution including high-performance UHPLC instrumentation, highly sensitive triple quadrupole MS detection, and dedicated consumables such as re-usable online SPE cartridges

1290 Infinity II Analytical-Scale LC Purification System

The 1290 Infinity II Analytical-Scale LC Purification System embodies the future of UHPLC compound isolation with the exceptional reliability and robustness you expect from the InfinityLab LC Series, plus breakthrough technologies to maximize the efficiency of your purification laboratory.

To meet diverse purification needs, UV or MS detection is possible as well as clustering of multiple fraction collectors to extend your fraction capacity and increase your productivity.



Features

- Analytical-scale purification LC system ideal for purification of multi-milligram quantities of materials
- Highly reliable and robust LC system improves your ability to manage ever-increasing workload demand
- Dynamic flow range up to 5 mL/min at maximum 1300 bar allows versatile application within a wide range of analytical-scale purification workflows
- Future-proof investment through upgrade with additional modules such as refractive index, fluorescence, or evaporative light scattering detectors, or single quadrupole LC/MSD
- Low-dispersion fraction collection for precise isolation of compounds of interest from your analytical run
- Collection of up to 4 x 96 fractions in microtiter plates, or up to 216 fractions in glass tubes with 4 outer diameters of tubes available
- Integrated and automated fraction delay sensor technology for increased purity and recovery of collected fractions
- Upgradeable fraction capacity based on your demand: improved lab efficiency through orthogonal analytical information only available from isolated compounds
- Fully upgradable to enhance the system's capabilities and functionality based on your demand
- Clean software infrastructure through Agilent OpenLab CDS ChemStation for familiar and reliable operation

Specifications

Column Capacity	4	
Column ID Reader Option	Optional	
Depth	468 mm	
Flow Range	up to 5 mL/min with G7120A and G7104A	
Injection Range	0.1-100 μ L	0.1 to 1500 μ L with Multi Draw Kit
Intelligent System Emulation Technology	No	
Line Voltage	100-240 VAC	
Maximum Number of Fractions	384	
Maximum Number of Solvents	4	up to 15 with additional Solvent Selection Valve
Maximum Number of Temperature Zones	2 with G7116B	1 with Vial Sampler with Integrated Column Compartment
Pump Type	Binary	
Special Features	Delay Sensor	Automated Delay Volume Calibration
System Pressure Operating Range	up to 1300 bar	
Width	980 mm	

1290 Infinity II Autoscale Preparative LC System

The 1290 Infinity II Autoscale Preparative LC System is a scalable, workflow-based solution that facilitates automated scale-up from analytical method scouting to optimized purification.

Agilent automated purification software enables automated transfer of purification methodologies from analytical to preparative-scale purification. Focused gradients are calculated on-the-fly for each target compound, ensuring highest purity and recovery of all collected fractions.



Features

- Autoscale Preparative LC System with fully automated combined sample injection fraction collection enables scale-up from analytical to preparative chromatography on one single system to maximize your capacity to increase your daily throughput, and maximize purity
- Support of automated workflows through import and export of sample sequences while focusing solely on your target compounds to minimize re-analysis time and reformulation of collected fractions
- Highly reliable and robust LC system improves your ability to manage ever-increasing workload demand
- Easy-to-change pump heads provide dynamic flow range up to 200 mL/min at maximum 600 bar for versatile application within a wide range of preparative workflows
- Control and organization of valves: five multipurpose slots provide enhanced organization of valves, fraction delay coils, and Agilent 1290 Infinity II MS Flow Modulator for a significant increase in productivity
- Integration of all standard collection modes and compatibility with multiple trigger sources provides compatibility to existing purification methods
- Lowest delay volume to minimize peak dispersion and carry-over for the highest sample recovery and purity
- Clean software infrastructure through Agilent OpenLab CDS ChemStation for familiar and reliable operation
- Automated purification software opens the door to workflow automation to scale-up from analytical to preparative conditions based on scientific algorithms - eliminates the need for time-consuming method development to improve daily purification cycles

Specifications

Column Capacity	10		
Column ID Reader Option	No		
Depth	622 mm		
Flow Range	1-200 mL/min		
Injection Range	5–15700 µL		
Intelligent System Emulation Technology	No		
Line Voltage	100-240 VAC		
Maximum Number of Fractions	432		
Maximum Number of Solvents	4		
Pump Type	Binary		
Special Features	Delay Sensor	Automated Delay Volume Calibration	Analytical-to-preparative work
System Pressure Operating Range	20-600 bar		
Width	989 mm		

1290 Infinity II Autoscale Preparative LC/MSD System

The 1290 Infinity II Autoscale Preparative LC/MSD System is the ultimate workflow solution for direct scale-up from analytical scouting to gram-level purification of target compounds.

Agilent automated purification software enables automated method transfer from analytical to preparative-scale purification. Mass-selective fraction triggering streamlines your purification processes and helps boost laboratory efficiency.



Features

- Preparative LC/MSD System with automated combined sample injection and fraction collection enables scale-up from analytical to preparative chromatography on one single system to maximize your capacity and increase your daily throughput
- Support of automated workflows through import and export of sample sequences while focusing solely on your target compounds to minimize re-analysis time and reformulation of collected fractions
- Highly reliable and robust LC system improves your ability to manage ever-increasing workload demand
- Easy-to-change pump heads provide dynamic flow range up to 200 mL/min at maximum 600 bar for versatile application within a wide range of preparative workflows
- Control and organization of valves: Five multipurpose slots provide enhanced organization of valves, fraction delay coils, and Agilent 1290 Infinity II MS Flow Modulator for a significant increase in productivity
- Integration of all standard collection modes and compatibility with multiple trigger sources provides compatibility to existing purification methods
- Lowest delay volume to minimize peak dispersion and carry-over for the highest sample recovery and purity
- Clean software infrastructure through Agilent OpenLab CDS ChemStation for familiar and reliable operation
- Automated purification software opens the door to workflow automation to scale-up from analytical to preparative conditions based on scientific algorithms - eliminates the need for time-consuming method development to improve daily purification cycles
- Integrated leak sensor in each module shuts down the whole system; providing additional safety when detecting a leak

Specifications

Column Capacity	10		
Column ID Reader Option	No		
Depth	622 mm		
Flow Range	1-200 mL/min		
Injection Range	5-15700 µL		
Intelligent System Emulation Technology	No		
Line Voltage	100-240 VAC		
Maximum Number of Fractions	432		
Maximum Number of Solvents	4		
Pump Type	Binary		
Special Features	Delay Sensor	Automated Delay Volume Calibration	Analytical-to-preparative work
System Pressure Operating Range	20-600 bar		
Width	2181 mm		

1290 Infinity II Preparative LC System

The 1290 Infinity II Preparative LC System is designed for the purification laboratory that needs increased daily throughput by offering automated sample injection and fraction collection, smooth control of LC valves, and flexible access to up to four analytical columns and six preparative columns.

Easily exchangeable pump heads enable delivery of flow rates of up to 200 mL/min, making the system ideally suited for both analytical scouting columns and preparative columns with internal diameters between 4.6 and 50 mm.



Features

- Preparative LC system with fully automated combined sample injection - fraction collection (supporting 20 mL loop) to increase your daily throughput and maximize your sample purity
- Highly reliable and robust LC system improves your ability to manage ever-increasing workload demand
- Easy-to-change pump heads provide dynamic flow range up to 200 mL/min at maximum 600 bar for versatile application within a wide range of preparative workflows
- Control and organization of valves: Five multipurpose slots provide enhanced organization of valves, fraction delay coils, and Agilent 1290 Infinity II MS Flow Modulator for a significant increase in productivity
- Integration of all standard collection modes and compatibility to multiple trigger sources provides compatibility to existing purification methods
- Lowest delay volume to minimize peak dispersion and carry-over for the highest sample recovery and purity
- Clean software infrastructure through Agilent OpenLab CDS ChemStation for familiar and reliable operation
- Integrated leak sensor in each module shuts down the whole system, providing additional safety when detecting a leak

Specifications

Column Capacity	10	
Column ID Reader Option	No	
Depth	622 mm	
Flow Range	1-200 mL/min	
Injection Range	5-15700 µL	
Intelligent System Emulation Technology	No	
Line Voltage	100-240 VAC	
Maximum Number of Fractions	432	
Maximum Number of Solvents	4	
Pump Type	Binary	
Special Features	Delay Sensor	Automated Delay Volume Calibration
System Pressure Operating Range	20-600 bar	
Width	989 mm	

1290 Infinity II Preparative LC/MSD System

The 1290 Infinity II Preparative LC/MSD System enables high-throughput purification, delivering high-quality compounds, for example, for biological screening, an important part of drug discovery.

This system features the Agilent 1290 Infinity II Preparative Open-Bed Sampler/Collector and offers outstanding flexibility in terms of application area and bench space. Mass-selective fraction triggering streamlines your purification processes and helps boost laboratory efficiency by reducing your reanalysis time.



Features

- Preparative LC/MSD System with fully automated combined sample injection fraction collection to maximize your capacity to increase your daily throughput, maximize purity, and minimize reanalysis time by mass-based purification
- Focusing solely on your target compounds to minimize reanalysis time and reformulation of collected fractions
- Highly reliable and robust LC system improves your ability to manage ever-increasing workload demand
- Easy-to-change pump heads provide dynamic flow range up to 200 mL/min at maximum 600 bar for versatile application within a wide range of preparative workflows
- Control and organization of valves: five multipurpose slots provide enhanced organization of valves, fraction delay coils, and Agilent 1290 Infinity II MS Flow Modulator for a significant increase in productivity
- Integration of all standard collection modes and compatibility with multiple trigger sources provides compatibility to existing purification methods
- Lowest delay volume to minimize peak dispersion and carry-over for the highest sample recovery and purity
- Clean software infrastructure through Agilent OpenLab CDS ChemStation for familiar and reliable operation

Specifications

Column Capacity	10	
Column ID Reader Option	No	
Depth	622 mm	
Flow Range	1-200 mL/min	
Injection Range	5-15700 µL	
Intelligent System Emulation Technology	No	
Line Voltage	100-240 VAC	
Maximum Number of Fractions	432	
Maximum Number of Solvents	4	
Pump Type	Binary	
Special Features	Delay Sensor	Automated Delay Volume Calibration
System Pressure Operating Range	20-600 bar	
Width	1585 mm	

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