



Agilent InfinityLab LC Series 1260 Infinity II Binary LC System

Manual and Quick Guide



Agilent Technologies

Notices

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In This Book

This book describes the Agilent InfinityLab LC Series 1260 Infinity II Binary LC system.

1 Introduction

This chapter gives an introduction to the Agilent 1260 Infinity II LC, the underlying concepts and the features of the Agilent 1260 Infinity II LC.

2 Configuration Settings

This chapter describes how to configure the system.

3 Quick Start Guide

This chapter provides information on running an Agilent 1260 Infinity II LC.

4 Parts and Consumables

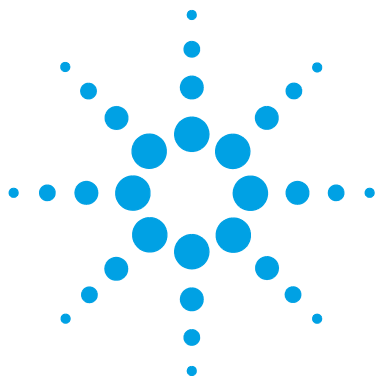
This chapter provides information on additional parts and consumables.

5 Appendix

This chapter provides addition information on safety, legal, and web.

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1

Introduction

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This chapter gives an introduction to the Agilent 1260 Infinity II LC, the underlying concepts and the features of the Agilent 1260 Infinity II LC.



Product Description

The Agilent 1260 Infinity II LC System is the trusted platform, taking you to the next level of routine analysis, and giving you the instrument choice to achieve best operational efficiency.

A broad range of reliable instrumentation matches with latest column technologies and guarantees robust separation and detection performance.

Highest instrument utilization and a fast turnaround cycle is achieved through easy column handling and superior sample logistics from sample submission to data analysis.

The designed for method transferability and stepwise upgrade capability enables a risk-free integration in current infrastructure matching your budget.

Features of the Agilent 1260 Infinity II Binary LC

With an operating pressure of up to 600 bar, the 1260 Infinity II Binary Pump is compatible with HPLC and UHPLC, i.e. handling 2.1, 3, and 4.6 mm ID columns over the flow rate range (up to 5 mL/min). Gradient formation is based on a high-pressure mixing principle.

Ultralow carryover – The 1260 Infinity II Multisampler is designed for low carryover, you can take clean to a whole new level with the multi-wash capability, cleaning all relevant injection parts between runs. This sophisticated, integrated feature flushes the injection needle outside with three solvents, and uses seat back flush procedures to reduce carryover to less than 9 ppm.

Dual-needle injection – By running samples alternately through one or the other injection path, you can reduce cycle times to mere seconds, virtually eliminating conventional wait times—whether for large volume loadings or flushing procedures.

Higher sample capacity per benchspace – Using shallow well-plate drawers, the 1260 Infinity II Multisampler takes a maximum load of 16 microtiter plates and up to 6144 samples—the most of any single system.

Advanced column capacity for up to 4 columns in a single 1260 Infinity II Multicolumn Thermostat delivering best flexibility for column switching.

Fast and easy connections with InfinityLab Quick Connect fittings to save time and trouble.

1260 Infinity II DAD HS Detector delivers lower detection limit and higher data quality for more confidence.

Seamless integration in your chromatography data system: Agilent's Instrument Control Framework (ICF) enables smooth control of Agilent LC instrumentation through third-party chromatography data systems.

System Components

The Agilent 1260 Infinity II Binary LC system consists of the following components:

- Binary Pump
- Multisampler or Vialsampler
- Multicolumn Thermostat (MCT)
- Diode Array (DAD), Variable Wavelength (VWD), Refractive Index (RID), or Fluorescence Detector (FLD)
- Evaporative Light Scattering Detector (ELSD) (optional, not stackable)
- Solvent Cabinet

The Agilent 1260 Infinity II Binary LC is described in more detail in the following sections. All modules (except the optional ELSD) are stackable, see [“Optimizing the Stack Configuration”](#) on page 22.

For specifications, please refer to the individual module user documentation.

Binary Pump G7112B

The Agilent 1260 Infinity II Binary Pump is suited for LC applications using conventional or superficially porous particles columns, as well as STM column technology. Gradient formation is based on a high-pressure mixing principle. Standard or low delay volumes can be easily configured by the user. The Agilent 1260 Infinity II Binary Pump offers reproducible gradients and high-performance, providing high-throughput and fast separations. The pump is suitable for routine applications, with UV or MS detection, where high speed and resolution with uncompromised data quality are required.

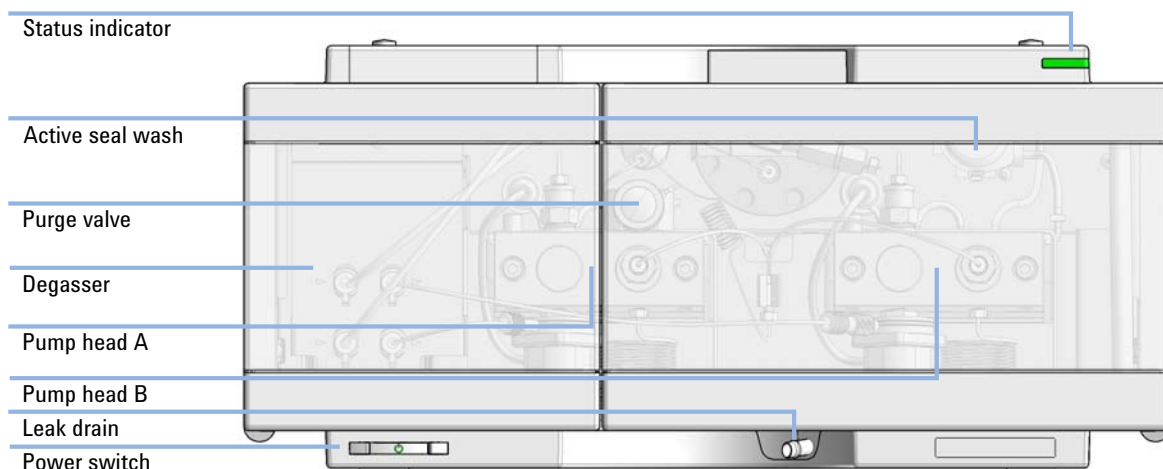


Figure 1 Overview of the pump

Multisampler G7167A

The Agilent 1260 Infinity II Multisampler can handle both vials and microtiter plates with ease and efficiency up to 600 bar system pressure, optimized on high flexibility.

This compact module can house up to 6144 samples, all inside the Agilent stack footprint and the robotics to inject each into the chromatograph in turn.

With the multi-wash capability, you can reduce carryover to less than 9 parts per million.

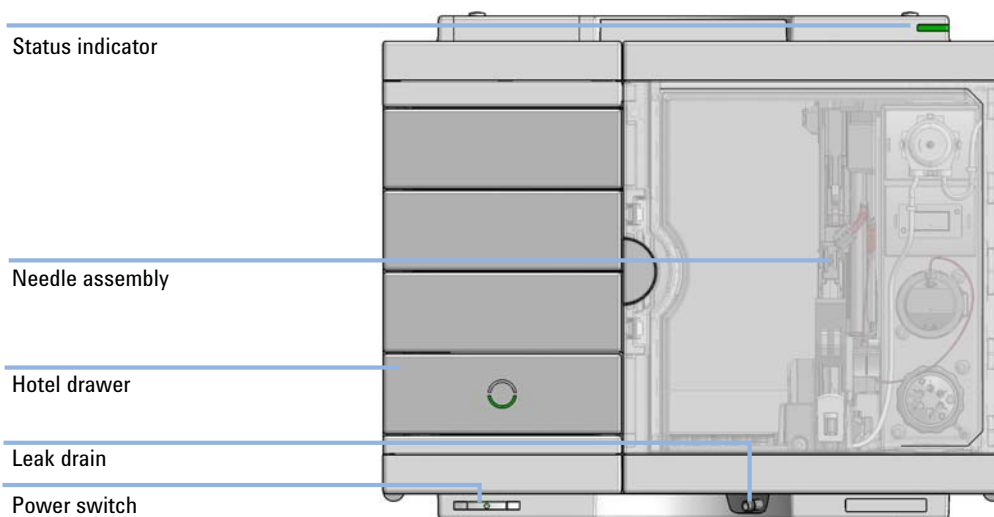


Figure 2 Overview of the Multisampler

Vialsampler G7129A

The Agilent 1260 Infinity II Vialsampler is designed for the reliability, safety, and ease-of-use needed for routine pharmaceutical tasks and quality control, as well as for environmental and food analyses. It can house optionally the integrated column compartment for two LC columns with temperature control up to 80 °C as well as a sample cooler for stable temperatures down to 4 °C, all within one module.

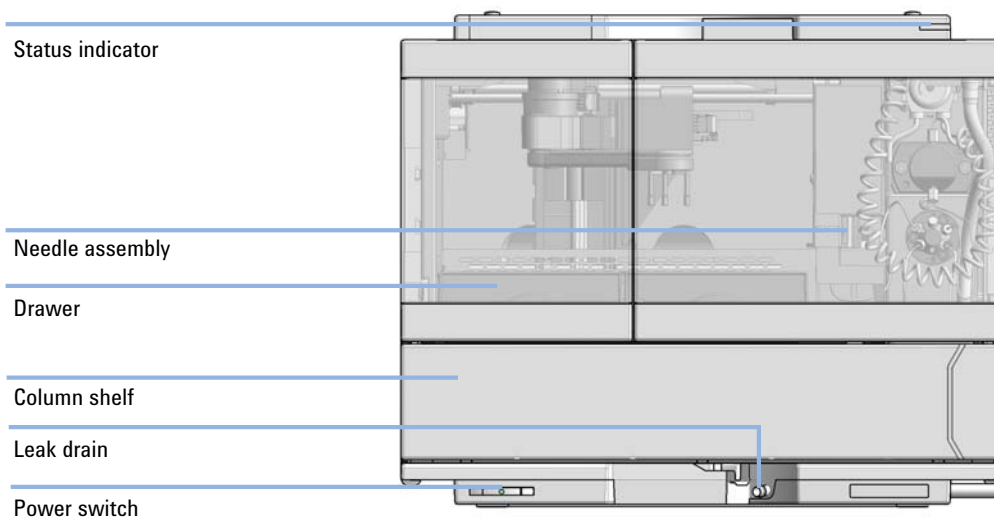


Figure 3 Overview of the Vialsampler

Multicolumn Thermostat G7116A

The Agilent 1260 Infinity II Multicolumn Thermostat (MCT) allows precise column thermostating over a broad temperature range: from cooling down to 10 degrees below ambient temperature up to 85 °C, providing high flexibility for optimized speed and selectivity of LC separation.

Ultrahigh pressure valves enable a wide range of applications such as column selection from 4 columns in a single MCT, sample preparation for analyte enrichment or matrix removal, alternating column regeneration, etc.

For bio-inert applications bio-inert heat exchangers and a selection of bio-inert valves are offered.

The MCT fits with all 1260 Infinity II modules and can also be combined with modules of the Agilent 1260 and 1290 Infinity II Series.

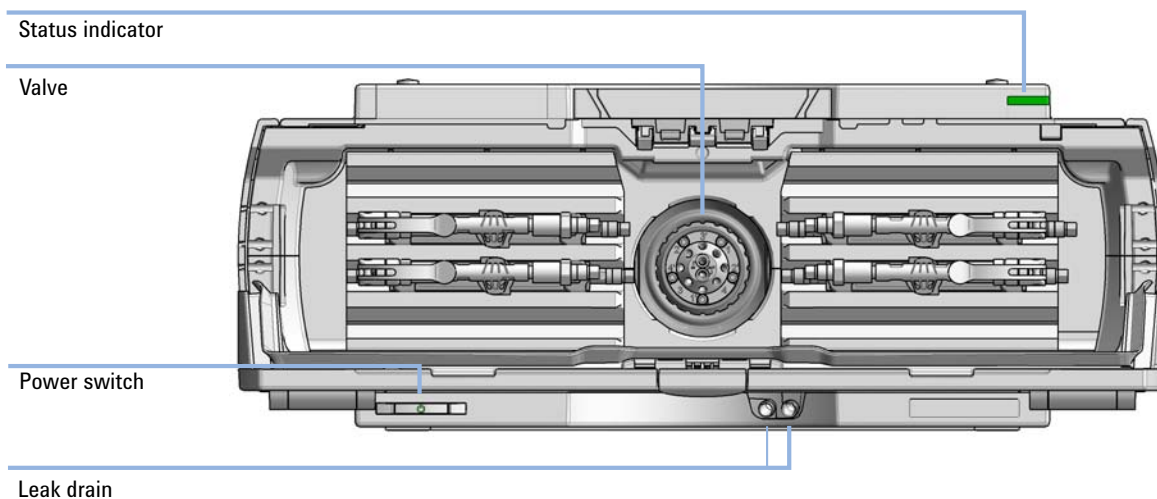


Figure 4 Overview of the Multicolumn Thermostat

Diode Array Detector HS G7117C

The Agilent 1260 Infinity II Diode Array Detector HS is based on the Agilent Max-Light cartridge cell with optofluidic waveguides that improve light transmission to near 100 % efficiency without sacrificing resolution caused by cell dispersions effects.

With typical detector noise levels of $< \pm 0.6 \mu\text{AU}/\text{cm}$ the 60 mm flow cell gives up to 10times higher sensitivity than detectors with conventional flow cells.

Any compromising refractive index and thermal effects are almost completely eliminated, resulting in significantly less baseline drift for more reliable and precise peak integration.

For fast separations, this detector has multiple wavelength and full spectral detection at sampling rates up to 120 Hz.

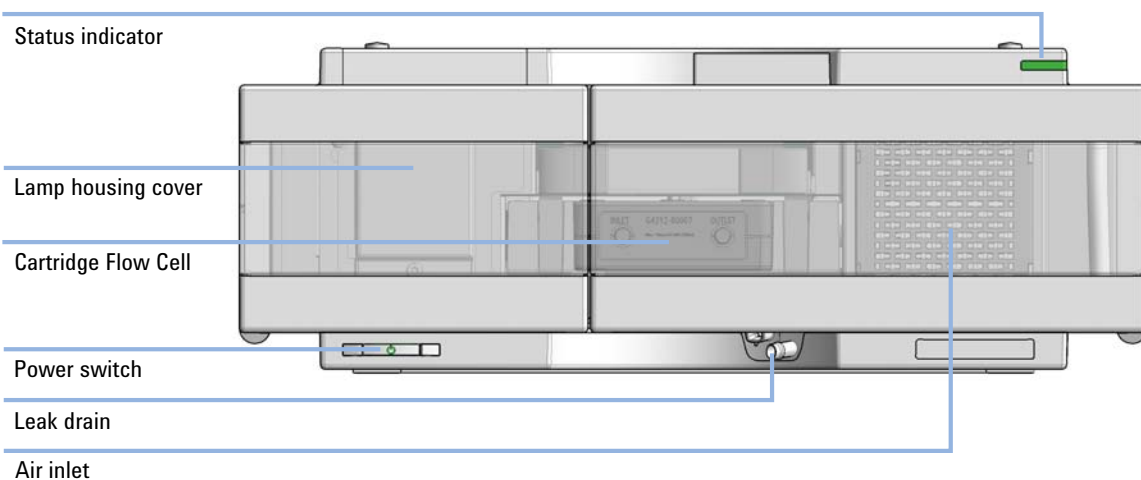


Figure 5 Overview of the detector

Diode Array Detector WR G7115A

The 1260 Infinity II DAD WR detector is designed for highest optical performance, GLP compliance, and easy maintenance. With its 120 Hz data acquisition rate the detector is perfectly suited for fast LC applications. The long -life deuterium lamps allow highest intensity and lowest detection limits over a wavelength range of 190 – 950 nm. The use of RFID tags for all flow cells and UV-lamps provides traceable information about these assemblies.

The built-in holmium oxide filter features the fast wavelength accuracy verification, while the built-in temperature controls improves the baseline stability. Additional diagnostic signals for temperature and lamp voltage monitoring are available.

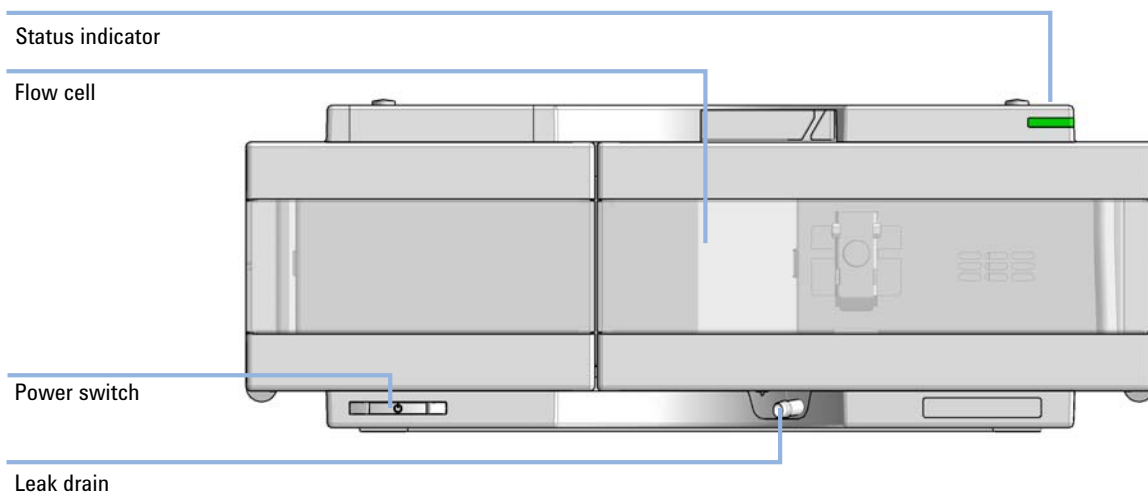


Figure 6 Overview of the detector

Variable Wavelength Detector G7114A

The Agilent 1260 Infinity II Variable Wavelength Detector (VWD) is the most sensitive and fastest detector in its class.

Time-programmable wavelength switching provides sensitivity and selectivity for your applications.

More sample information can be acquired in the dual wavelength mode.

Low detector noise ($< \pm 2.5 \mu\text{AU}$) and baseline drift ($< 1 \cdot 10^{-4} \text{ AU/h}$) facilitates precise quantification of trace levels components.

High productivity can be achieved with fast analysis at up to 120 Hz data rates.

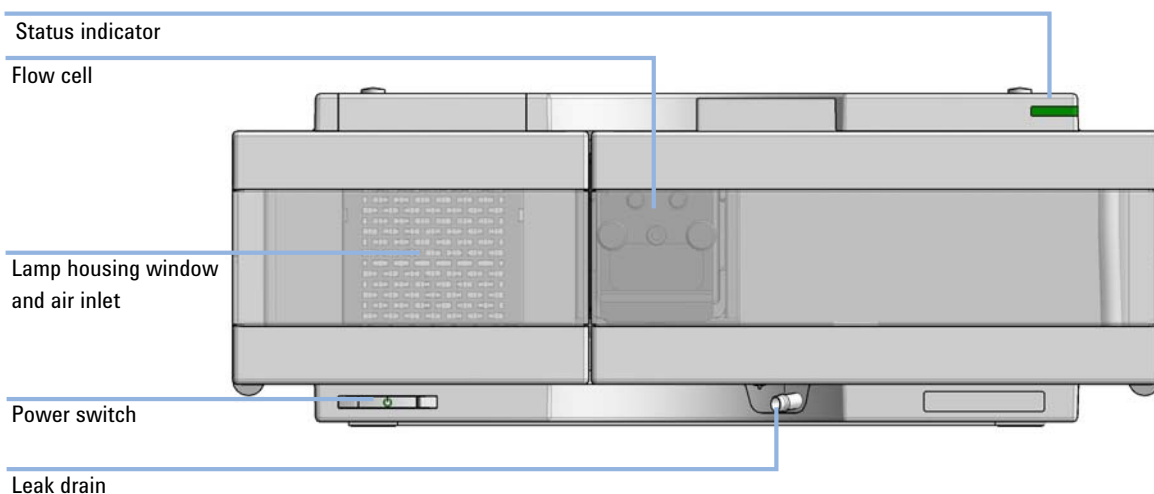


Figure 7 Overview of the detector

Fluorescence Detector G7121A

The proven optical and electronic design of the Agilent 1260 Infinity II Fluorescence Detector provides highest sensitivity for the analysis of trace-level components. Time-programmable excitation and emission wavelength switching allows you to optimize the detection sensitivity and selectivity for your specific applications. High-speed detection with up to 74 Hz data rates keeping you pace with the analysis speed of fast LC.

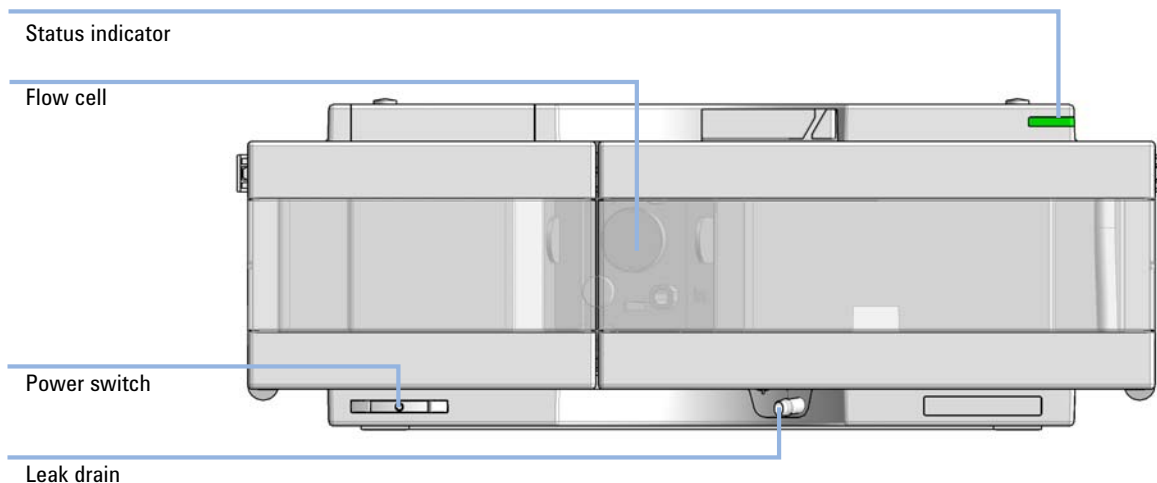


Figure 8 Overview of the detector

Refractive Index Detector G7162A

The Agilent 1260 Infinity II Refractive Index Detector (RID) is the ideal detector for fast and reliable LC results when routinely analyzing non-UV absorbing substances, such as carbohydrates, lipids, and polymers. The 1260 Infinity II RID is also the detector of choice for gel permeation chromatography (GPC) or size exclusion chromatography (SEC).

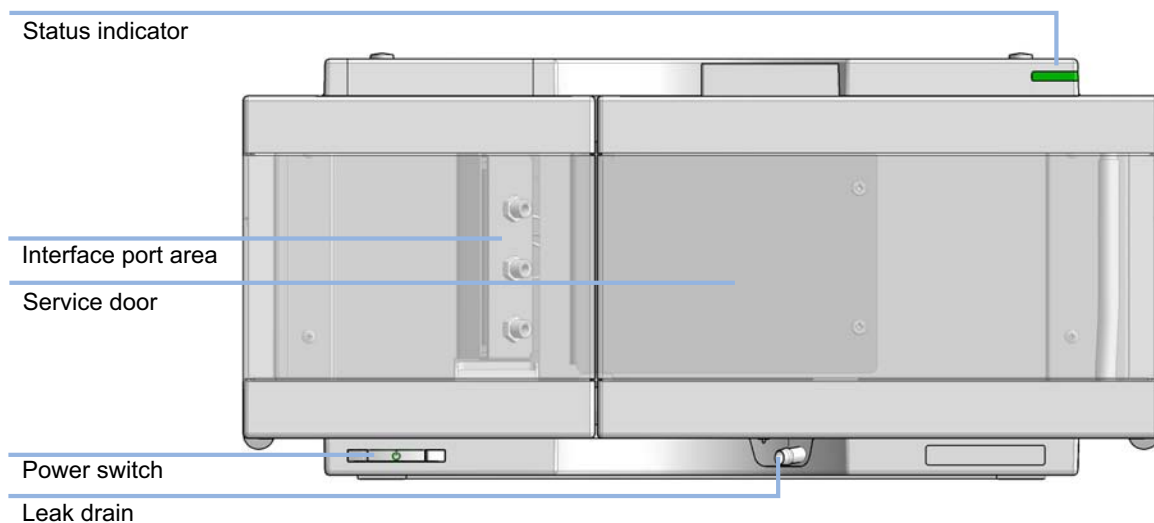


Figure 9 Overview of the detector

Solutions

Walk-up

Agilent's Walkup Software enables simplified access to the power and precision of high quality LC and LC/MS processes for multiple users.

- Users may simply *walk up* to an LC/MS system, input basic sample information and choose from a list of analytical methods or purification schemes available.
- Sample submitters are prompted where to place their samples. They will receive their results by e-mail when the samples are completed.
- Managers of multiple instrument installations can take advantage of networking instruments through an OpenLAB Shared Services Server to allow administration from anywhere in the lab.

Online SPE

Whether you need to enrich your analytes, remove matrix components, or lower detection limits for e.g. trace-level water analysis, the highly modular design of the Agilent 1290 Infinity II Series Online SPE Solution provides you with the flexibility to tailor your system to match virtually any analytical LC challenge. Agilent's Online SPE Solutions are based on the 1290 Infinity Flexible Cube that houses re-usable SPE cartridges and up to two valves. Combined with the Agilent 6400 Series Triple Quadrupole mass spectrometers the 1200 Infinity Series Online SPE Solution allows ultra-low, trace level detection.

The Online SPE Starter Kit builds the basis for all possible Online-SPE solutions. In an alternating way you can clean, condition and load your sample on one of the cartridges while the second cartridge is in the analytical flow path for analyzing the sample.

In addition to the Online SPE Starter Set the online SPE direct injection kit allows also to bypass the SPE cartridges and inject directly onto the analytical column. With this approach you can use your system either for online SPE analysis or for a direct injection without re-plumbing the system.

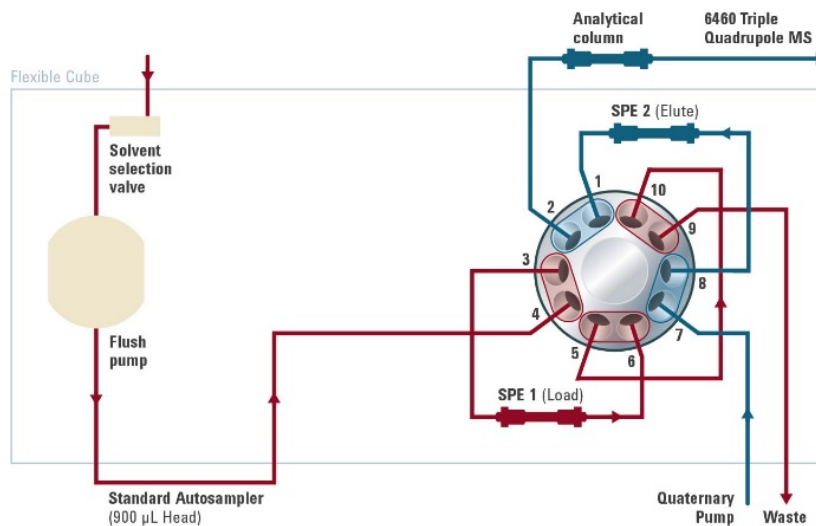


Figure 10 Position 1

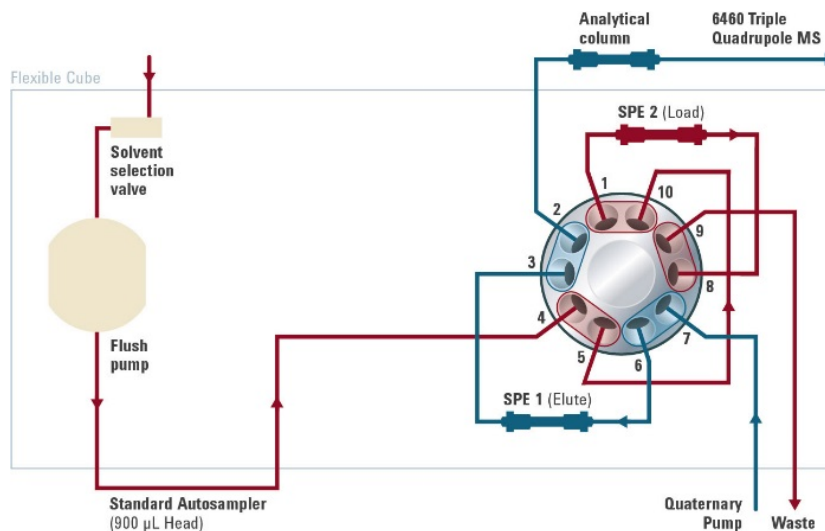


Figure 11 Position 2

1260 Infinity II Multimethod Solution

This configuration allows to increase your labs' efficiency by combining hardware for column-selection with solvent selection. Multiple LC applications using different mobile phases, different gradients, but also different stationary phases can be performed on just one LC instrument. Typically, several users share one instrument, nevertheless use their individual LC methods dedicated to their specific samples. This configuration is chosen to optimize instrument use.

- By using a high-pressure 4-column selector valve (G4237A, 600 bar) inside the 1260 Infinity II Multicolumn Thermostat, up to 4 columns (30 cm length with InfinityLab fittings or shorter) can be accessed without any re-plumbing. Individual InfinityLab Quick-Connect heat exchangers support pre-column solvent heating for each column. A bio-inert version of the 4-column selector valve is also available. Fingertight InfinityLab fittings allow a fast exchange of columns when needed.
- A solvent selection valve attached to the LC stack allows additional access of up to 12 different solvents.
- Utilization and productivity of the LC are optimized by switching between several applications run on a single instrument.

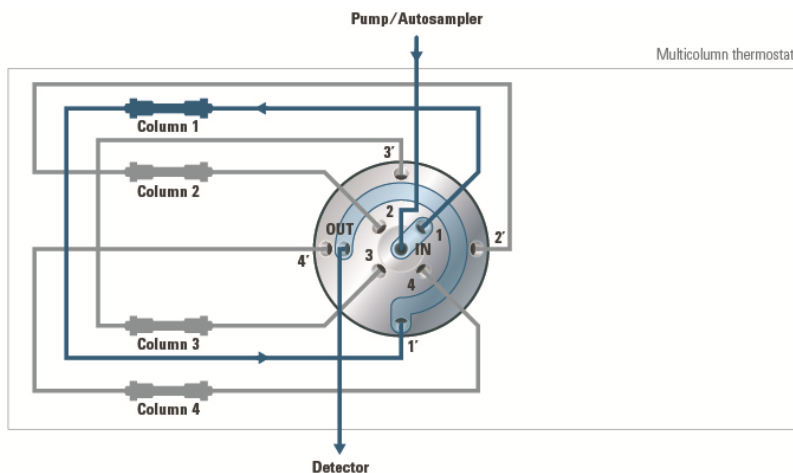


Figure 12 Hydraulic flow path schematics for a 4-column selection setup

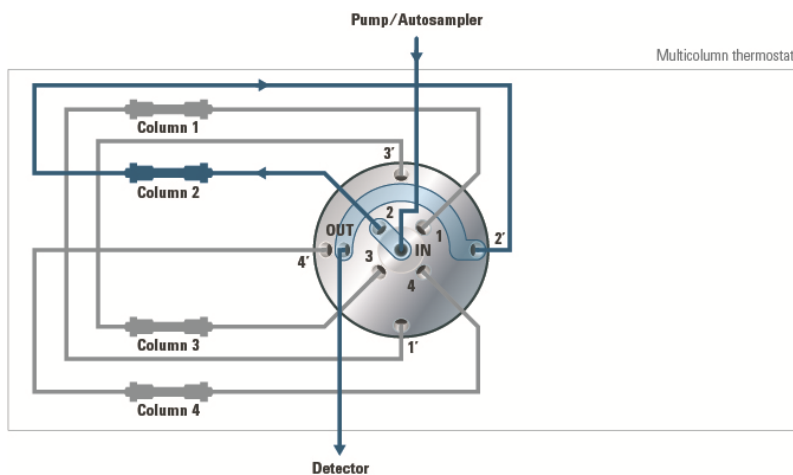


Figure 13 Hydraulic flow path schematics for a 4-column selection setup

Optimizing the Stack Configuration

To ensure safe operation and optimum performance of an Agilent InfinityLab LC System, Agilent Technologies prescribe stack configurations. The following configurations are possible:

- InfinityLab Flex Bench
- Single Stack (maximal 4 modules, in a bench rack or directly on the bench)
- Two Stacks (in a bench rack or directly on the bench)

The table below summarizes the advantages of the different prescribed configurations.

Table 1 Overview on pros and cons of different stack configurations

modules in a stack	Rack Configuration	Single Stack Configuration	Two Stacks Configuration
fewer than 5	Pros • no bench required • mobile • optimal access to the modules, solvent bottles, pumps, columns, and accessories • integrated waste concept	Pros • minimal bench space required Cons • high stack	Pros • lower stacks • flexible combinations Cons • maximum bench space required
5 and more	+ possible	- not possible	+ possible

Agilent InfinityLab LC Flex Bench

Agilent recommends to use the InfinityLab LC Flex Bench for all Agilent-LC-Systems.

Main features:

- Increases flexibility in the lab
- Safe moving of LC
- Easy stack customization
- Included waste management

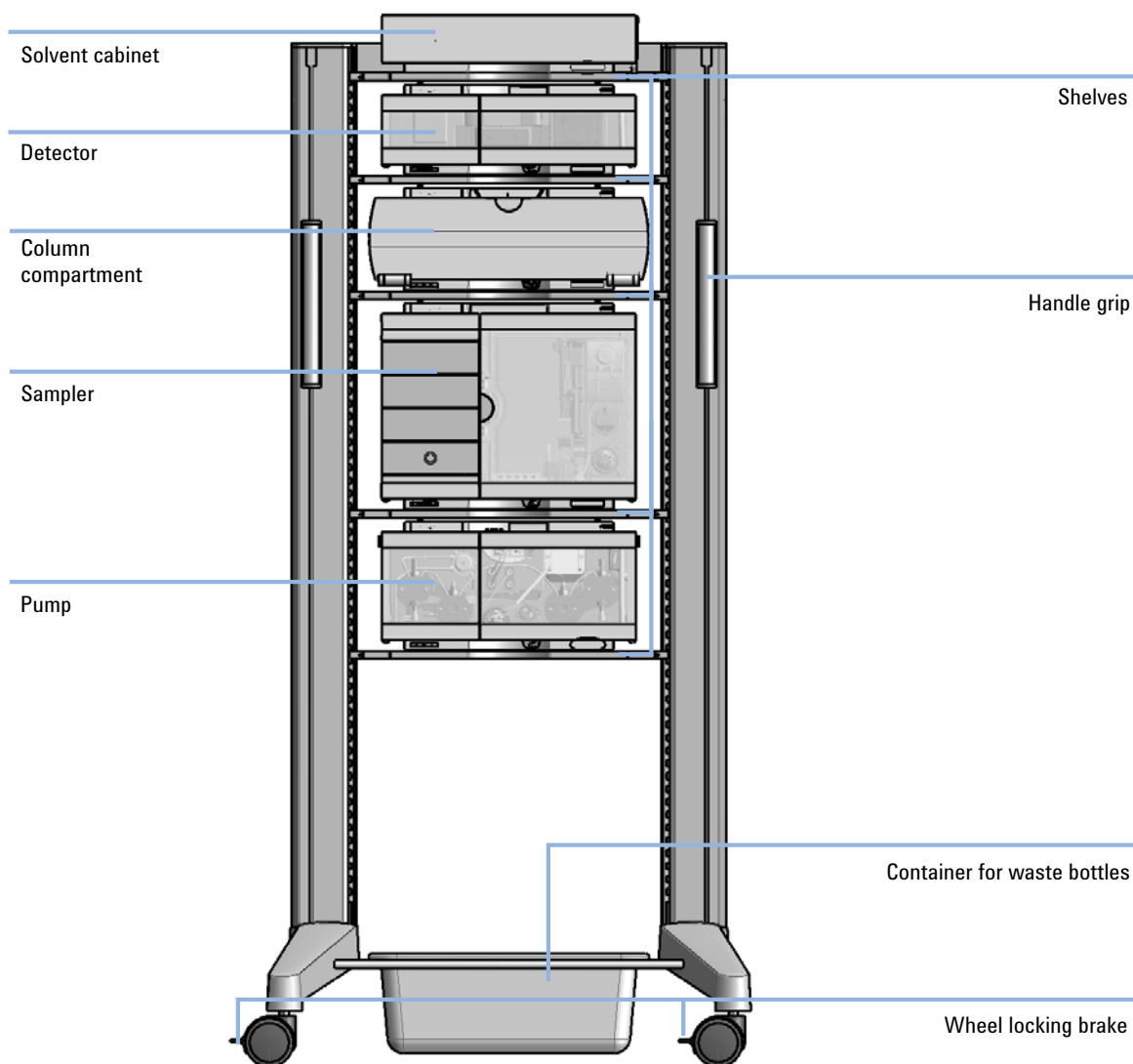


Figure 14 Agilent InfinityLab LC Flex Bench

One Stack Configuration

Ensure optimum performance by stacking the modules as shown exemplarily in [Figure 15](#) on page 24. This configuration optimizes the flow path for minimum delay volume and minimizes the bench space required.

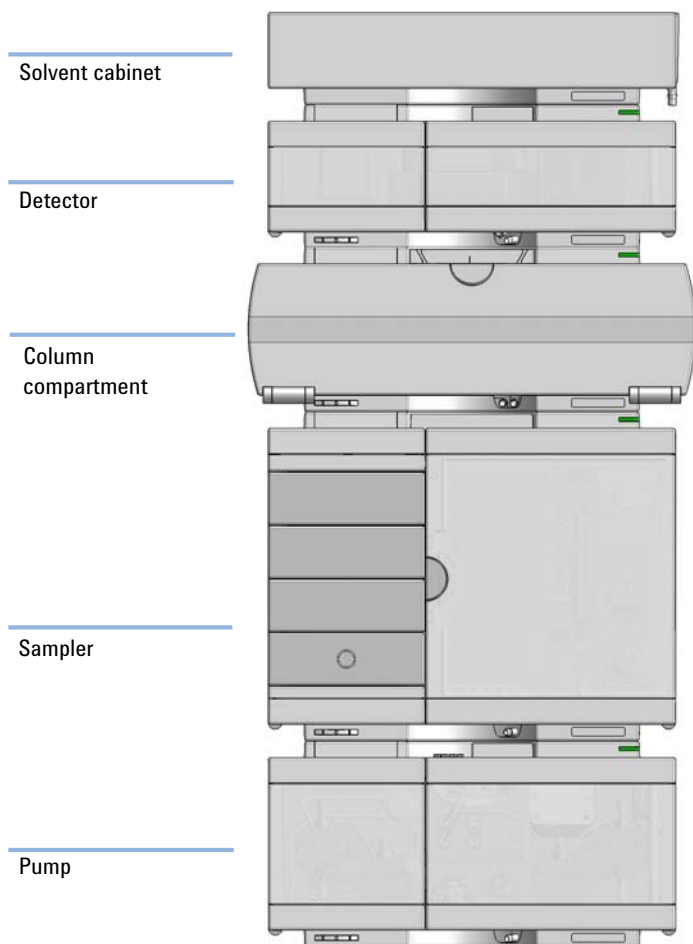


Figure 15 Single stack configuration (bench installation, example shows a multisampler)

Vialsampler stack configurations with integrated column compartment

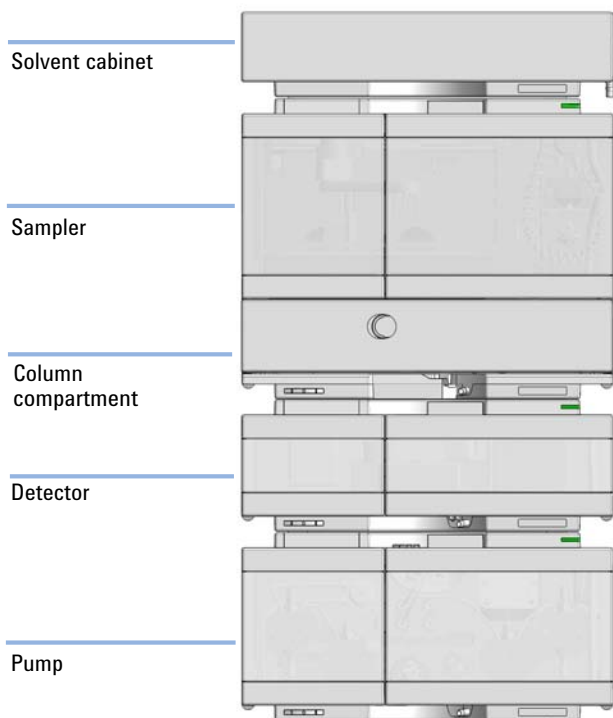


Figure 16 Single stack configuration (bench installation, example shows a vialsampler with optional ICC installed)

Two Stack Configuration

To avoid excessive height of the stack (for example when using the system in combination with an additional detector) it is recommended to form two stacks.

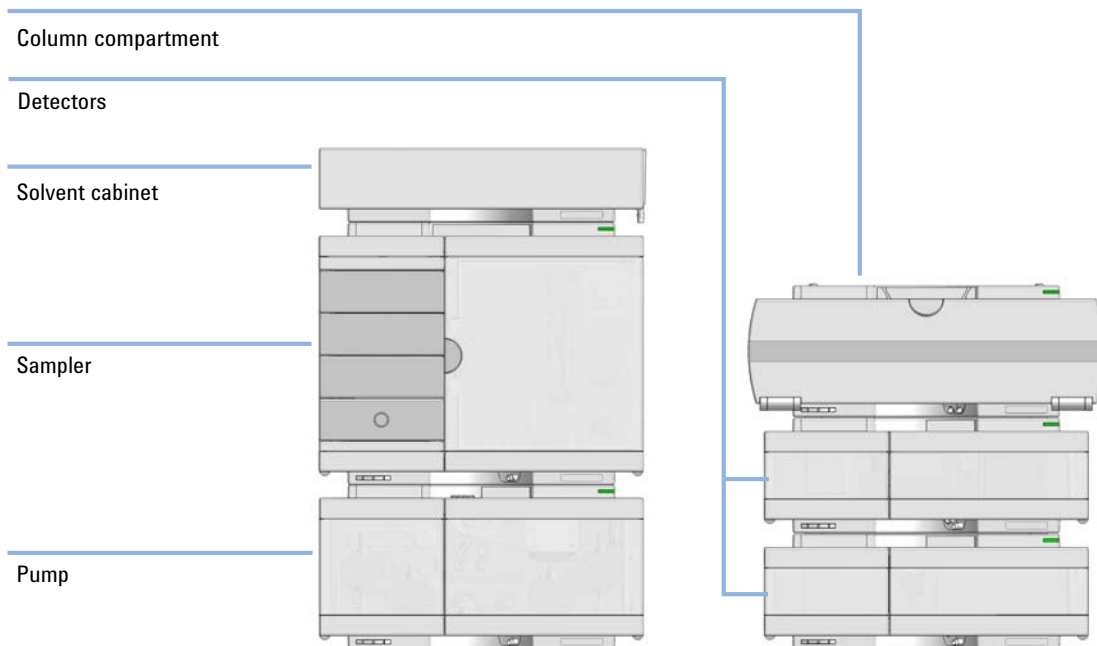


Figure 17 Two stack configuration (bench installation, example shows a multisampler)

Vialsampler Two Stack Configurations

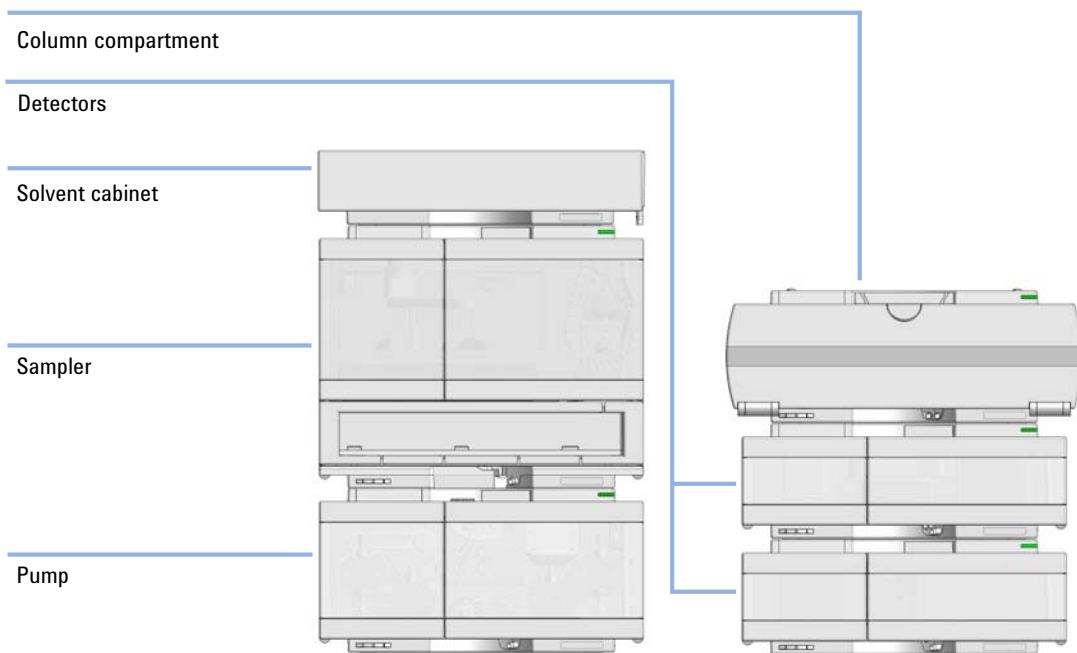


Figure 18 Two stack configuration (bench installation, example shows a vialsampler)

Leak and Waste Handling

The Agilent InfinityLab LC Series has been designed for safe leak and waste handling. It is important that all security concepts are understood and instructions are carefully followed.

The solvent cabinet is designed to store a maximum volume of 8 L solvent. The maximum volume for an individual bottle stored in the solvent cabinet should not exceed 2 L. For details, see the usage guideline for the Agilent 1200 Infinity Series Solvent Cabinets (a printed copy of the guideline has been shipped with the solvent cabinet, electronic copies are available on the Internet).

All leak plane outlets are situated in a consistent position so that all Infinity and Infinity II modules can be stacked on top of each other. Waste tubes are guided through a channel on the right hand side of the instrument, keeping the front access clear from tubes.

The leak plane provides leak management by catching all internal liquid leaks, guiding them to the leak sensor for leak detection, and passing them on to the next module below, if the leak sensor fails. The leak sensor in the leak plane stops the running system as soon as the leak detection level is reached.

Solvent and condensate is guided through the waste channel into the waste container:

- from the detector's flow cell outlet
- from the Multisampler needle wash port
- from the Sample Cooler (condensate)
- from the Seal Wash Sensor
- from the pump's Purge Valve or Multipurpose Valve

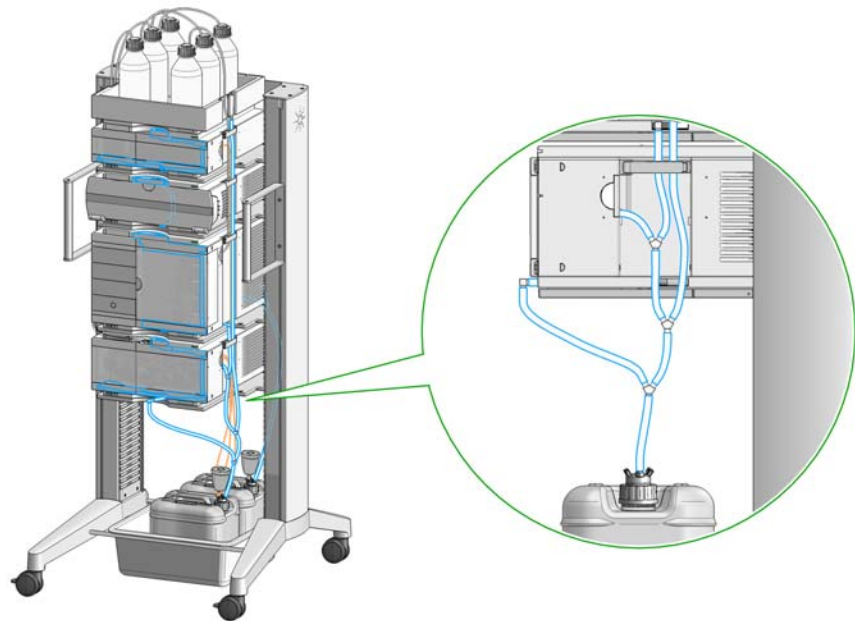


Figure 19 Infinity II Leak Waste Concept (flexible rack installation)

1 Introduction

Leak and Waste Handling

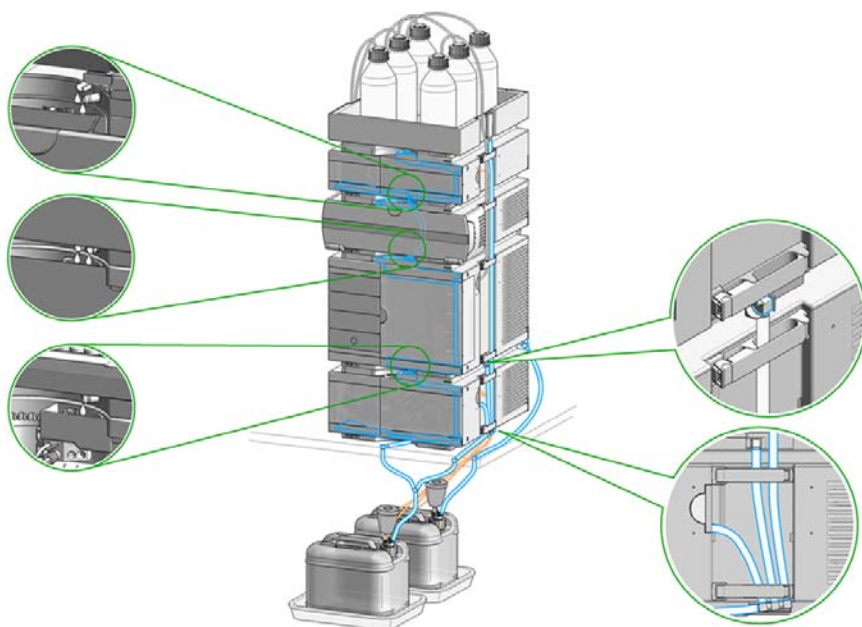


Figure 20 Infinity II Single Stack Leak Waste Concept (bench installation)

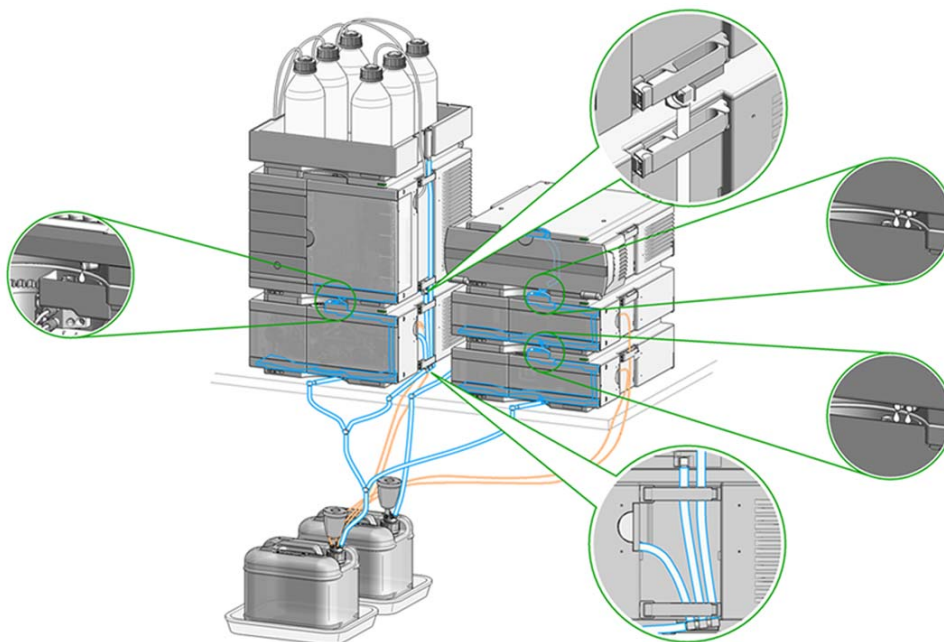
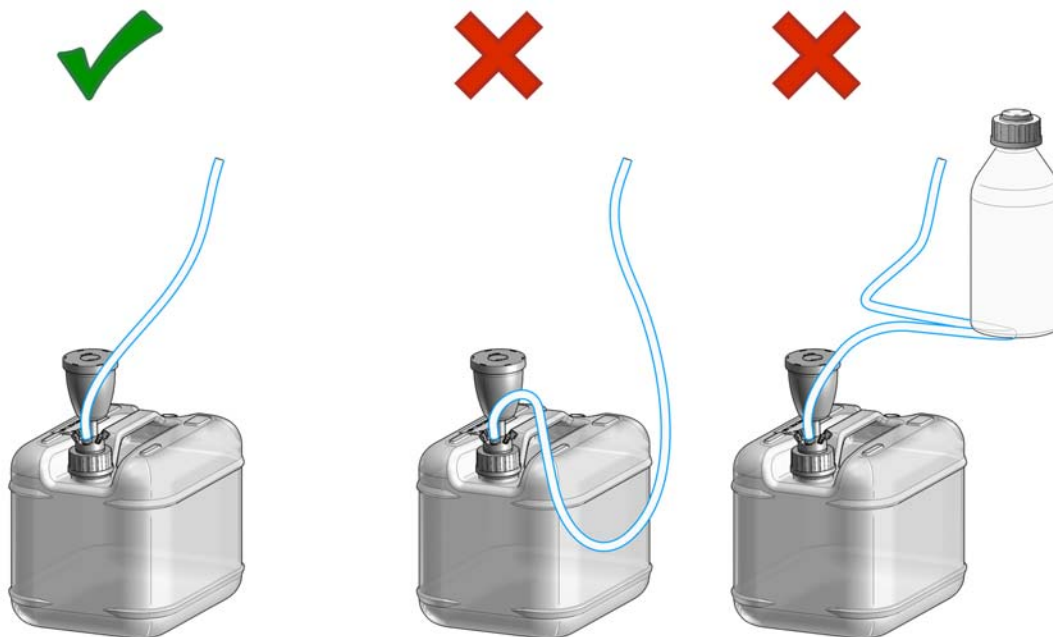


Figure 21 Infinity II Two Stack Leak Waste Concept (bench installation)

The waste tube connected to the leak pan outlet on each of the bottom instruments guides the solvent to a suitable waste container.

Waste Guidance



NOTE

The waste drainage must go straight into the waste containers. The waste flow must not be restricted at bends or joints.

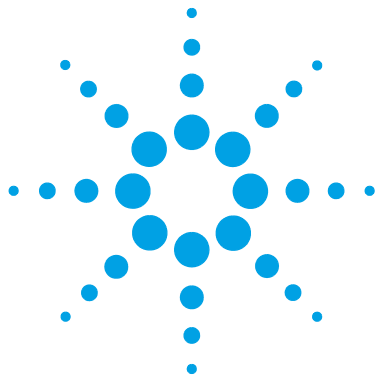
Waste Concept

- 1 Agilent recommends using the 6 L waste can with 1 Stay Safe cap GL45 with 4 ports (5043-1221) for optimal and safe waste disposal. If you decide to use your own waste solution, make sure that the tubes don't immerse in the liquid.



1 Introduction

Leak and Waste Handling



2 Configuration Settings

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This chapter describes how to configure the system.



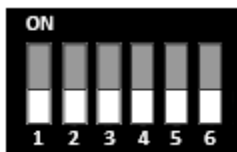
General Information on LAN Configuration

LAN configuration is executed from the module with direct LAN connection to the controller software. This must be the module (usually the detector) with the highest data rate.

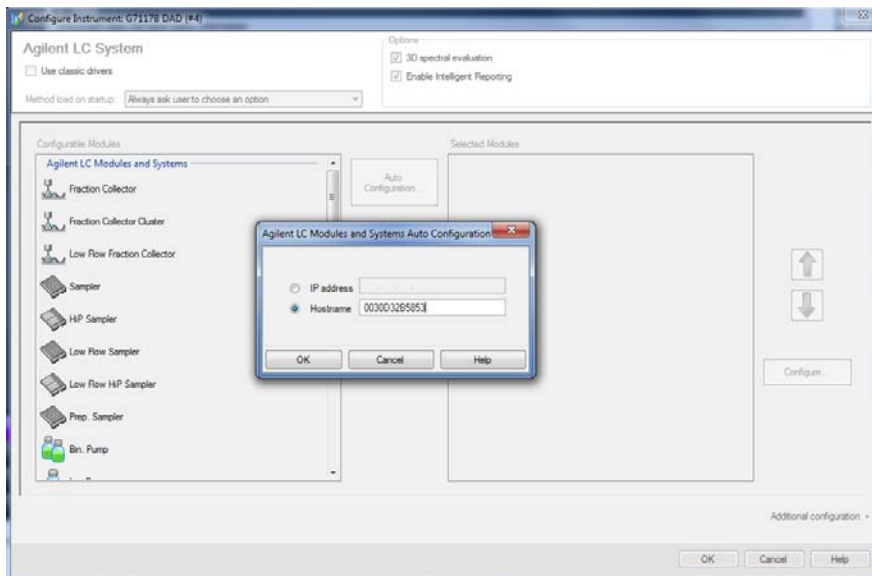
Instrument Configuration

Example shows an instrument configuration with a Diode Array Detector.

- 1 Set the switches of the Configuration switch at the rear of the module:
 - a All switches DOWN: module uses the default IP address 192.168.254.11.
 - b Switch 4 UP and others DOWN: module uses DHCP.



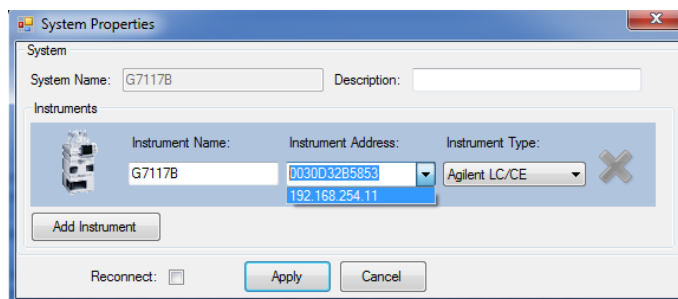
- 2 Enter the setup information (MAC / IP address and/or Instrument Name).
 - a Agilent OpenLab ChemStation (Configure Instrument):



2 Configuration Settings

Instrument Configuration

b Lab Advisor (Instrument Overview - Add Instrument):

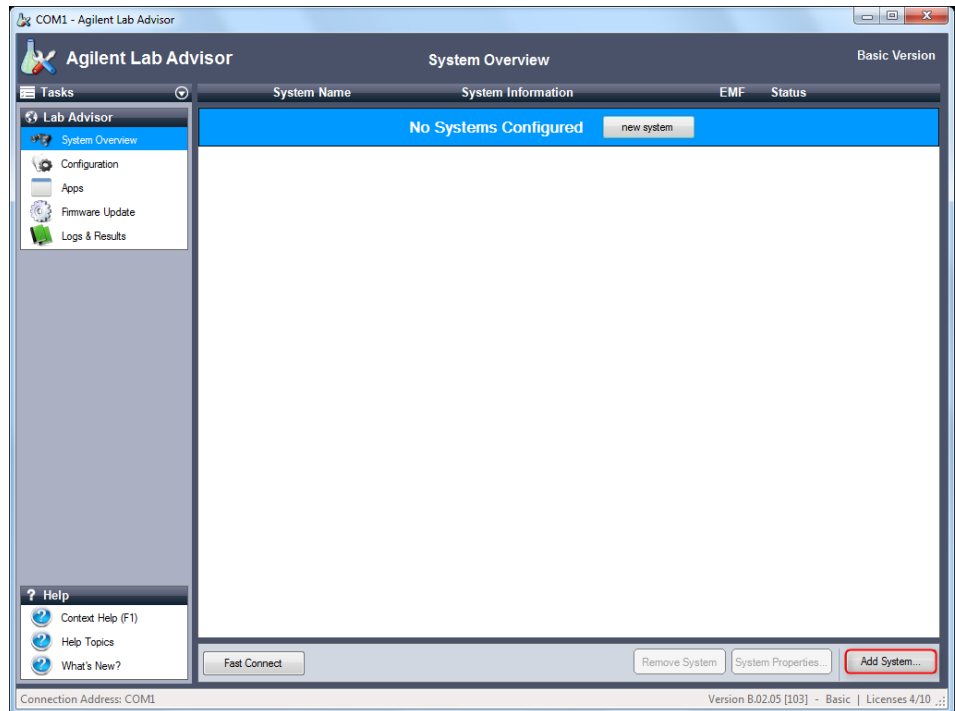


The screenshot shows the 'System Properties' dialog box with the 'Instruments' tab selected. The 'System' section at the top has a 'System Name' field containing 'G7117B' and an empty 'Description' field. Below this, the 'Instruments' section contains a table with three columns: 'Instrument Name', 'Instrument Address', and 'Instrument Type'. The first row of the table has 'G7117B' in the 'Instrument Name' column, '192.168.254.11' in the 'Instrument Address' column, and 'Agilent LC/CE' in the 'Instrument Type' column. There is a small icon of a laboratory instrument to the left of the first row. Below the table is an 'Add Instrument' button. At the bottom of the dialog box, there is a 'Reconnect' checkbox (unchecked), an 'Apply' button, and a 'Cancel' button.

Instrument Name	Instrument Address	Instrument Type
G7117B	192.168.254.11	Agilent LC/CE

Lab Advisor

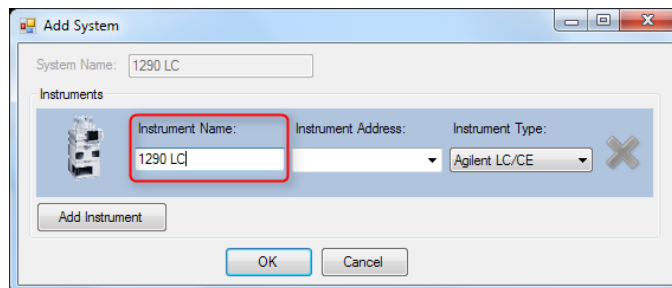
- 1 In the Action Panel of the **System Overview**, click **Add System**.



2 Configuration Settings

Lab Advisor

The **Add System** dialog box is displayed.

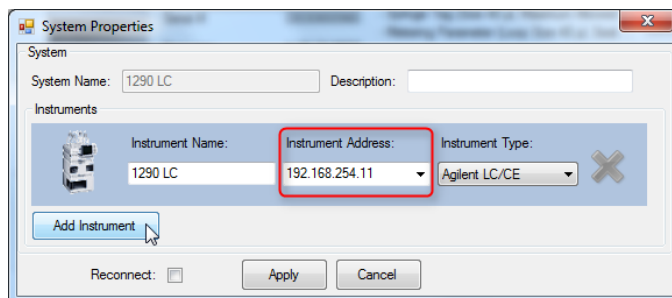


2 Enter a name in the **Instrument Name** field.

NOTE

If your system comprises just one instrument, the **Instrument Name** is copied to the **System Name** field.

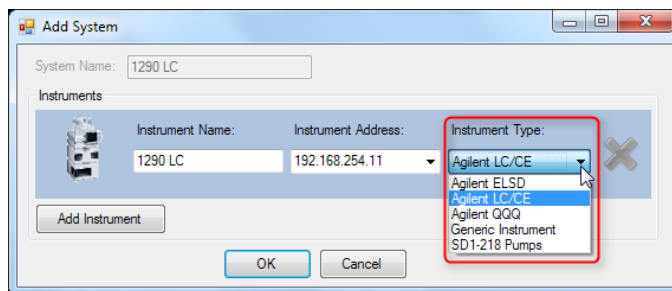
3 Enter the connection details in the **Instrument Address** field.



NOTE

The **Instrument Address** can be an IP address, the host name or, if you are connecting using a serial cable, the COM port.

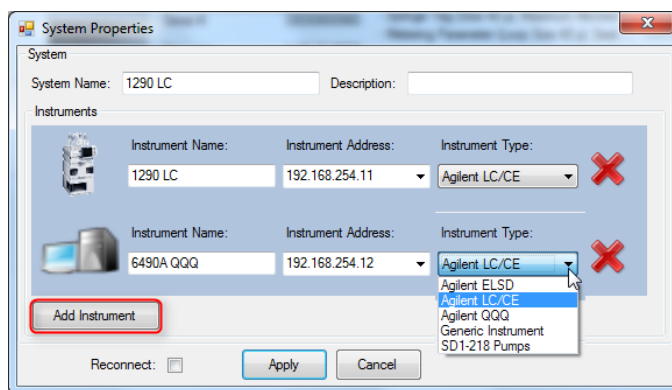
- 4 Click the **Instrument Type** down-arrow and select the type of instrument you are adding from the list. The default setting is **Agilent LC/CE**. Additional instrument types become available when the respective add-ons are installed.



NOTE

By default, the **Instrument Type** drop-down list contains only the entry **Agilent LC/CE**. Additional instrument types can be added by installing the respective add-ons (see [“Installing Add-ons”](#) on page 43).

- 5 If your system comprises more than one instrument, click **Add Instrument** and complete the details as above.



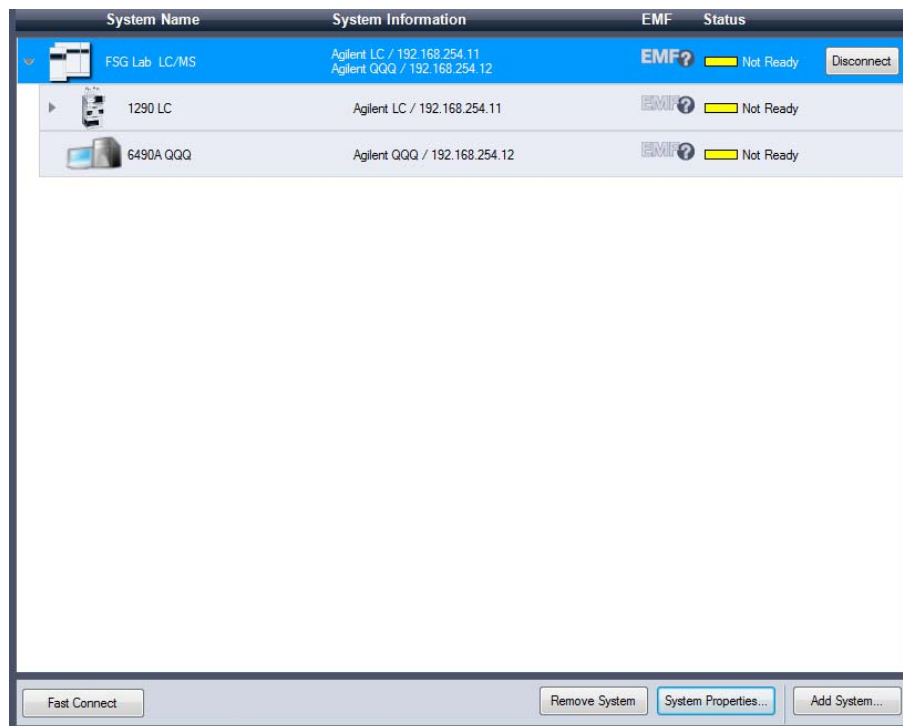
NOTE

as soon as you add a second instrument, the **System Name** field is activated to allow you to edit the system name.

2 Configuration Settings

Lab Advisor

- Click **OK** to finish adding the system and close the **Add System** dialog box.
The system becomes visible in the **System Overview**, and Lab Advisor tries to connect to it.



Installing Add-ons

Add-ons are installed from the **Configuration** screen, using a Lab Advisor Extension file with the extension .LAX.

NOTE

You need Administrator rights in order to install Add-ons.

- 1 In the Global Tasks section of the Navigation Panel, click **Configuration**. The **Configuration** screen is displayed.
- 2 Click **Add-ons** to navigate to the **Configuration - Add-ons** screen.

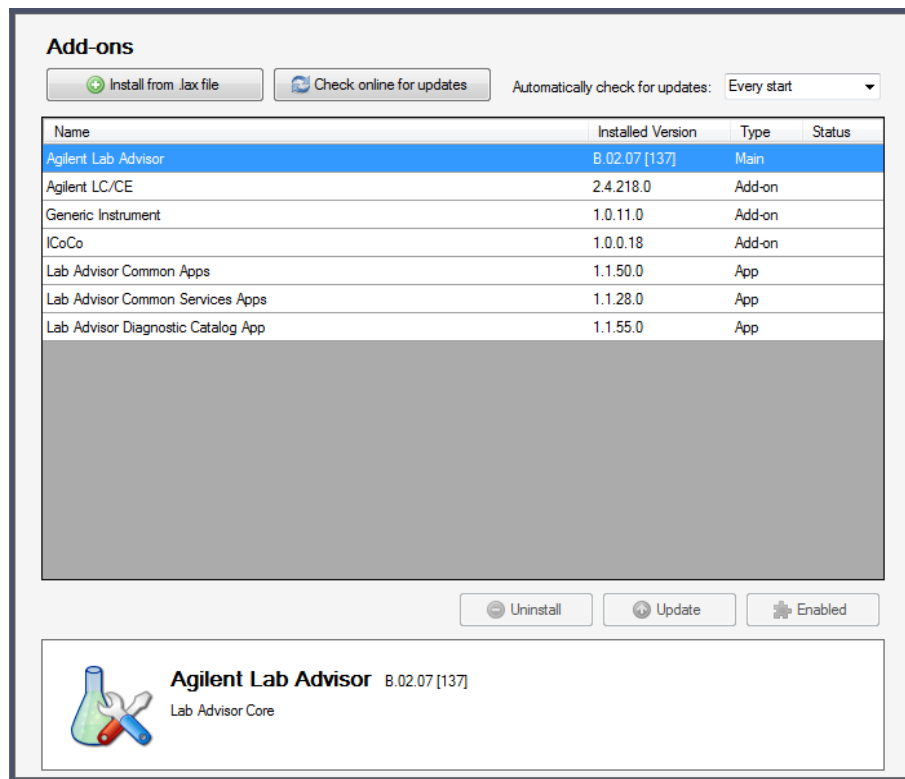


Figure 22 Add-ons in Configuration

2 Configuration Settings

Lab Advisor

The **Configuration - Add-ons** screen contains a table listing all the Add-ons that are already installed.

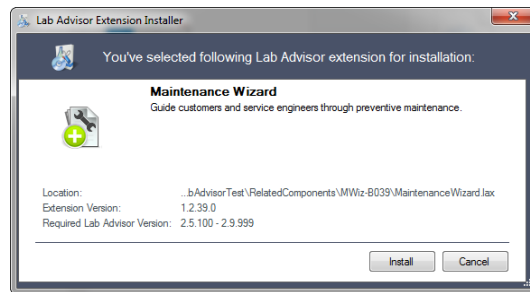
3 Click **Install from .lax file**.

A file selection dialog box is displayed to allow you to select the App or Add-on to install.

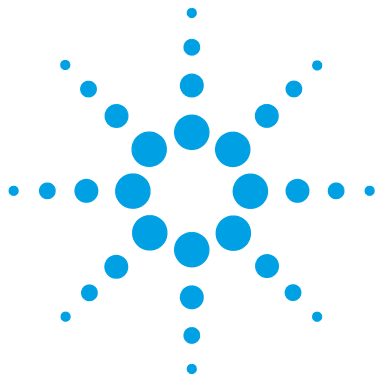
4 Navigate to the folder containing the Add-on files, select the .lax file and click **Open** to install the Add-on.

5 Click **Yes** when the request to shut down Lab Advisor appears.

Lab Advisor shuts down and the Add-on installation is started.



When the installation is finished, the newly installed Add-on is included in the table in the **Configuration - Add-ons** screen.



3 Quick Start Guide

Best Practices	46
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Check Out the System	54
Checkout Method	54
Setup the Checkout Method	58

This chapter provides information on running an Agilent 1260 Infinity II LC.



Best Practices

NOTE

For best practices, refer to the *Agilent Information Center* on Agilent InfinityLab LC Series User Documentation (G4800-64600) or the 1290 Infinity Pump Quick Reference Sheet (01200-90091).

Prepare a Run

This procedure exemplarily shows how to prepare a run. Parameters as shown in the screenshots may vary, depending on the system installed.

WARNING

Toxic, flammable and hazardous solvents, samples and reagents

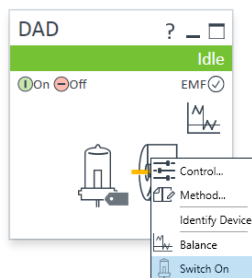
The handling of solvents, samples and reagents can hold health and safety risks.

- When working with these substances observe appropriate safety procedures (for example by wearing goggles, safety gloves and protective clothing) as described in the material handling and safety data sheet supplied by the vendor, and follow good laboratory practice.
 - Do not use solvents with an auto-ignition temperature below 200 °C (392 °F). Do not use solvents with a boiling point below 56 °C (133 °F).
 - Avoid high vapor concentrations. Always keep the temperature in the sample compartment at least 25 K below the boiling point of the solvent used.
 - Do not operate the instrument in an explosive atmosphere.
 - Reduce the volume of substances to the minimum required for the analysis.
 - Never exceed the maximum permissible volume of solvents (8 L) in the solvent cabinet. Do not use bottles that exceed the maximum permissible volume as specified in the usage guideline for solvent cabinet.
 - Ground the waste container.
 - Regularly check the filling level of the waste container. The residual free volume in the waste container must be large enough to collect the waste liquid.
 - To achieve maximal safety, regularly check the tubing for correct installation.
-

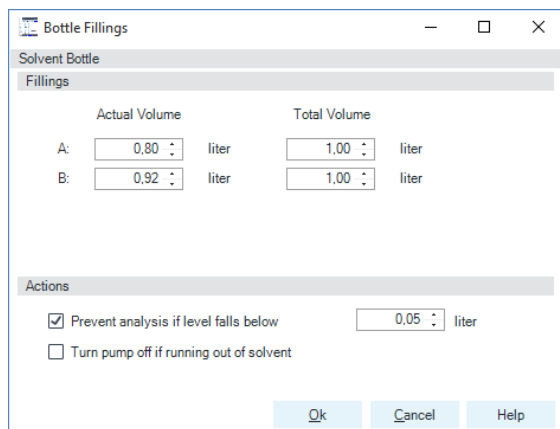
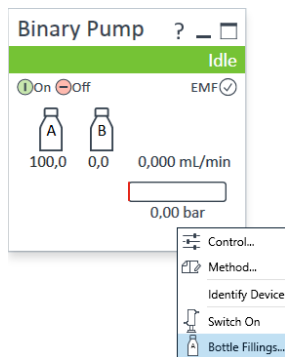
3 Quick Start Guide

Prepare a Run

- 1 Switch on the detector.



- 2 Fill the solvent bottles with adequate solvents for your application.
- 3 Place solvent tubings with bottle head assemblies into the solvent bottles.
- 4 Place solvent bottles into the solvent cabinet.
- 5 Solvent bottle filling dialog (in the software).



6 Purge the pump (in normal usage scenario).

OR

Prime the pump (after installation of the system).

NOTE

For details on priming and purging, refer to the technical note *Best Practices for Using an Agilent LC System*.

7 Change solvent (if necessary).

Flow

0.800 mL/min

Solvents

A:

60.0 %

1 ☒ H20

2 ☐ H20

B:

☒ 40.0 %

1 ☒ ACN

2 ☐ H20

Pressure Limits

Min: 0.00 bar

Max: 600.00 bar

Stoptime

☐ As Injector/No Limit

☒ 10.00 min

Posttime

☒ Off

☐ 1.00 min

Advanced

Minimum Stroke

Channel A:

☒ Automatic

☐ 20 µL

Channel B:

☒ Automatic

☐ 20 µL

Compressibility

☒ Use Solvent Types

Maximum Flow Gradient

100.000 mL/min²

Timetable (empty)

☐ Show timetable graph

OK

Apply

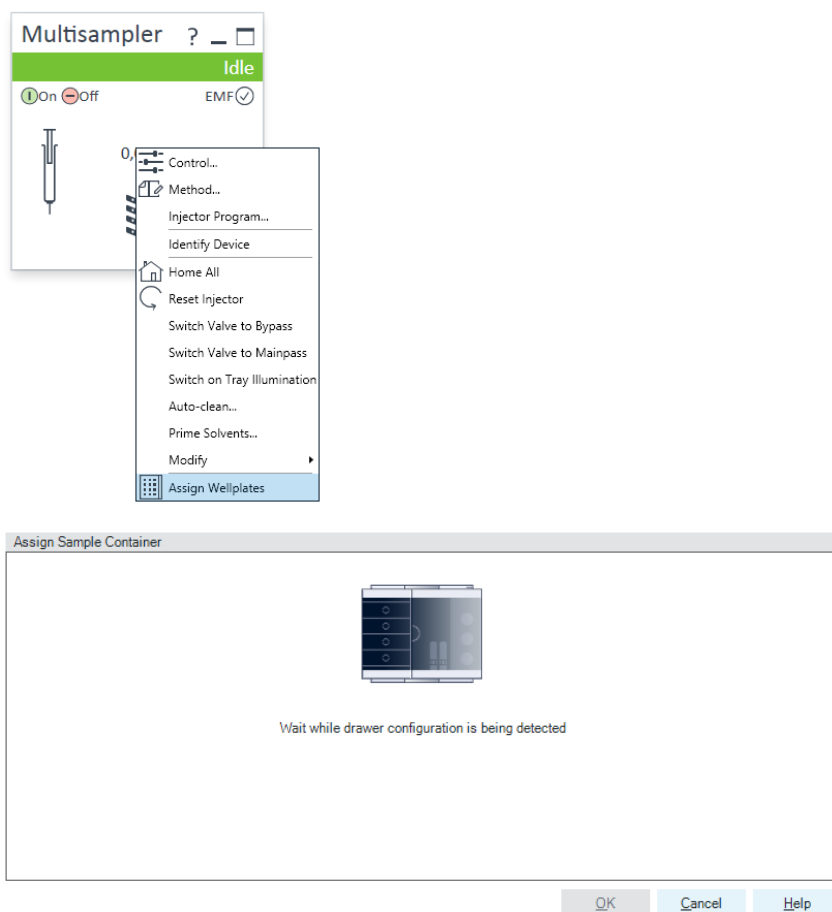
Cancel

Help

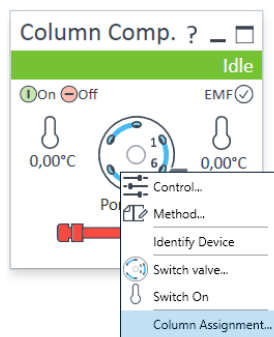
3 Quick Start Guide

Prepare a Run

8 Choose the tray format of the sampler.



9 Add a new column.



10 Enter the column information.

Plumbing

Valve Position	Location
1	Left 1
2	Left 2

Visualization

Valve Type: 2-pos/6-port valve 600 bar (5067-4137)

Column Tag Information

>>

Location	Color Code	Description	Length [mm]	Diameter [mm]	Particle Size [µm]	Max. Pressure [bar]	Injections
Left 1	Red		0	0,0	0,0	0	0
Left 2	Blue		0	0,0	0,0	0	0
Left 3	None		0	0,0	0,0	0	0
Left 4	None		0	0,0	0,0	0	0
Right 1	None		0	0,0	0,0	0	0
Right 2	None		0	0,0	0,0	0	0
Right 3	None		0	0,0	0,0	0	0
Right 4	None		0	0,0	0,0	0	0

Ok/Write Tag

Cancel

Help

3 Quick Start Guide

Prepare a Run

11 Select the column position.

Temperature

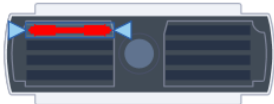
Left:
☐ Not Controlled
☒ 40.0 °C
☐ As Detector Cell
☐ Unchanged

Right:
☐ Not Controlled
☐ 25.0 °C
☐ As Detector Cell
☐ Unchanged
☒ Combined

Valve Position/Column

☐ Use Current Column / Position
☒ Use Selected Column / Position

Position 1



☐ Enforce column for run

Stoptime

☒ As Pump/Injector
☐ 1.00 min

Posttime

☒ Off
☐ 1.00 min

Advanced

Enable Analysis

☒ when front door open

Left:
☐ With any temperature
☒ When temperature is within
± 0.8 °C for
0.0 min

Right:
☐ With any temperature
☒ When temperature is within
± 0.8 °C for
0.0 min

Valve Position/Column After Run

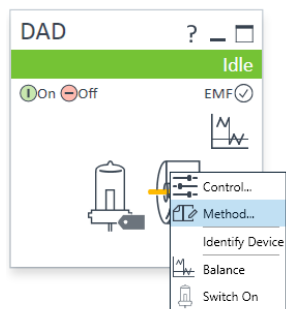
☒ Do not switch
☐ Switch to position / column at beginning of run
☐ Increase valve position / column
☐ Use valve position / column

Position 1

Timetable (empty)

Ok Apply Cancel

12 Set the detector according to the needs of your method.



Quat. Pump | VWD | Sampler | **DAD** | Column Comp.

DAD (G7115A)

Signals

	Acquire	Wave length	Band width	Reference Wavelength	Reference Bandwidth	
Signal A	☒	254	4	☒	360	100 nm
Signal B	☐	254	4	☐	360	100 nm
Signal C	☐	210	4	☐	360	100 nm
Signal D	☐	230	4	☐	360	100 nm
Signal E	☐	280	4	☐	360	100 nm
Signal F	☐	260	4	☐	360	100 nm
Signal G	☐	270	4	☐	360	100 nm
Signal H	☐	290	4	☐	360	100 nm

Peakwidth
> 0.0063 min (0.13 s response time) (40 Hz)

StoptimePosttime

☒ As Pump/Injector

☐ 1.00 min

☒ Off

☐ 1.00 min

Advanced

Spectrum

Store : None

Range from: 190 to 400 nm

Step: 2.0 nm

Analog Output

Zero Offset: 5 %

Attenuation: 1000 mAU

Margin for negative Absorbance

100 mAU

Slit

4 nm

Autobalance

☒ Prerun

☐ Postrun

Lamps on required for acquisition

☒ UV Lamp

☐ Vis Lamp

Timetable (empty)

NOTE

For details on running a method, see “Setup the Checkout Method” on page 58 as an example.

Check Out the System

Checkout Method

This is an exemplary method for the Agilent InfinityLab LC Series.

Exemplary configuration:

- Binary Pump G7112B
- Multisampler G7167A
- Multicolumn Thermostat G7116A
- Diode Array Detector WR G7115A

The RRLC checkout sample (5188-6529) serves as standard for systems with 600 bar and contains 100 ng/ μ L each of nine components dissolved in water / acetonitrile (65/35). The nine components are:

- Acetanilide
- Acetophenone
- Propiophenone
- Butyrophenone
- Benzophenone
- Valerophenone
- Hexanophenone
- Heptanophenone
- Octanophenone

The Agilent isocratic checkout sample (01080-68704) serves as standard for systems with 400 bar and contains each of four components dissolved in methanol.

- Dimethylphthalate
- Diethylphthalate
- Biphenyl
- o-Terphenyl

NOTE

Find the correct settings for the individual modules here:

- Checkout method parameter settings Binary Pump (G7112B)([Table 3](#) on page 56)
- Checkout method parameter settings Multisampler (G7167A) or Vialsampler (G7129A)([Table 4](#) on page 56)
- Checkout method parameter settings Multicolumn Thermostat (G7116A)([Table 5](#) on page 56)
- Checkout method parameter settings Diode Array Detector HS (G7117C) or Diode Array Detector WR (G7115A)([Table 6](#) on page 57)
- Checkout method parameter settings Variable Wavelength Detector (G7114A)([Table 7](#) on page 57)

Table 2 Overview of column options for different pumps

Pump	Option 1	Option 2	Option 3
1260 Infinity II Quaternary and Binary Pump (G7111B/G7112B)	Poroshell 120 EC-C18, 4.6 x 100 mm, 2.7 µm	Poroshell 120 EC-C18, 3.0 x 150, 2.7 µm	Poroshell 120 EC-C18, 3.0 x 50 mm, 2.7 µm
	695975-902T	693975-302T	699975-302T
1260 Infinity II Quaternary Pump VL (G7111A)	Poroshell 120 EC-C18, 4.6 x 100 mm, 4 µm	Poroshell 120 EC-C18, 4.6 x 50 mm, 2.7 µm	Poroshell 120 EC-C18, 4.6 x 150 mm, 4 µm
	695970-902T	699975-902T	693970-902T

3 Quick Start Guide

Check Out the System

Table 3 Checkout method parameter settings Binary Pump (G7112B)

Parameter	Value
Flow	0.8 mL/min
Solvent A	Water
Solvent B	ACN
Composition	40 %B (ACN)
Composition	60 %A (Water)
Stoptime	10 min
Pressure Limit	600 bar
Minimum Stroke	Automatic
Timetable	2.5 min80 %B

Table 4 Checkout method parameter settings Vialsampler/Multisampler (G7129A/G7167A)

Parameter	Value
Injection	1 µL
Stoptime	as pump
Draw speed	100 µL/min

Table 5 Checkout method parameter settings Multicolumn Thermostat (G7116A)

Parameter	Value
Temperature (left)	40 °C
Temperature (right)	combined
Stoptime	as pump

Table 6 Checkout method parameter settings Diode Array Detectors (G7115A/G7117C)

Parameter	Value
Signal A	254/4 nm
Ref A	360/100 nm
Peakwidth	40 Hz
Stoptime	as pump
Spectrum	None
Autobalance	Prerun

Table 7 Checkout method parameter settings Variable Wavelength Detector (G7114A)

Parameter	Value
Wavelength	254 nm
Peakwidth	40 Hz
Stoptime	as pump
Autobalance	Prerun

Setup the Checkout Method

NOTE

The setup of the checkout method in this procedure is an example. For the individual module parameters, see [“Checkout Method”](#) on page 54.

- 1 Turn on the lamp.
- 2 Load the the default method DEF_LC.M

3 Change the method and timetable settings for the 1260 Infinity II Binary Pump (G7112B)

Flow
0.800 mL/min

Solvents

A: 1 ☒ H20
2 ☐ H20

B: ☒ 40.0 % 1 ☒ ACN
2 ☐ H20

Pressure Limits
Min: 0.00 bar Max: 600.00 bar

Stoptime **Posttime**

☐ As Injector/No Limit ☒ Off
☒ 10.00 min ☐ 1.00 min

Advanced

Minimum Stroke

Channel A: ☒ Automatic ☐ 20 µL
Channel B: ☒ Automatic ☐ 20 µL

Compressibility
☒ Use Solvent Types

Maximum Flow Gradient
100.000 mL/min²

Timetable (empty)

☐ Show timetable graph

OK Apply Cancel Help

Figure 23 Method settings 1260 Infinity II Binary Pump (G7112B)

3 Quick Start Guide
Check Out the System

Flow

0.800 mL/min

Solvents

A: 60.0 % 1 ☒ H20 2 ☐ H20

B: ☒ 40.0 % 1 ☒ ACN 2 ☐ H20

Pressure Limits

Min: 0.00 bar Max: 600.00 bar

Stoptime Posttime

☐ As Injector/No Limit ☒ Off

☒ 10.00 min ☐ 1.00 min

Advanced

Timetable (1/100 events)

☐ function centric view

Time [min]	A [%]	B [%]	Flow [mL/min]	Max. Pressure Limit [bar]
0.00	60.0	40.0	0.800	600.00
2.50	20.0	80.0	...	...

Add Remove Clear All Clear Empty

Cut Copy Paste Shift Times 0.00 min

☐ Show timetable graph

OK Apply Cancel Help

Figure 24 Timetable settings 1260 Infinity II Binary Pump (G7112B)

4 Change the method settings for the 1260 Infinity II Multisampler (G7167A)

Quat. Pump	VWD	Sampler	DAD	Column Comp.	Multisampler	Iso. Pump	Quat. Pump	Binary Pump	Multisampler
Multisampler (G7167A)									
Injection Injection volume: 1.00 μL					Advanced				
Needle Wash Standard Wash					Sampling Speed Draw Speed: 100.0 $\mu\text{L}/\text{min}$ Eject Speed: 400.0 $\mu\text{L}/\text{min}$ Wait Time After Draw: 1.2 s				
Stoptime Posttime ☒ As Pump/No Limit ☒ Off ☐ 1.00 min ☐ 1.00 min					Needle Height Position Offset: 0.0 mm ☐ Use Vial/Well Bottom Sensing				
					High Throughput Sample Flush-Out Factor: 5.0 ☐ Injection Valve to Bypass for Delay Volume Reduction ☐ Enable Overlapped Injection ☐ When Sample is Flushed Out ☒ After Period of Time 0.00 minutes after injection				
▶ Injection Path Cleaning									

Figure 25 Method setting 1260 Infinity II Multisampler (G7167A)

3 Quick Start Guide

Check Out the System

Quat. Pump
VWD
Sampler
DAD
Column Comp.
Multisampler
Iso. Pump
Quat. Pump
Binary Pump
Multisampler

Injection

Injection volume: 1.00 μ L

Needle Wash

Standard Wash

Stoptime

Posttime

☒ As Pump/No Limit

☐ 1.00 min

☒ Off

☐ 1.00 min

Advanced

Injection Path Cleaning

Standard Wash

Mode: Flush Port

Time: 3 s

Location:

Repeat: 3

Multi-wash

Step	Solvent	Time [s]	Seat Back Flush	Needle Wash	Comment
1	Off		☐	☐	
2	Off		☐	☐	
3	Off		☐	☐	
Start Cond.	S1		☒	☐	

Figure 26 Method setting 1260 Infinity II Multisampler (G7167A) - Injection Path Cleaning

5 Change the method settings for the 1260 Infinity II Multicolumn Thermostat (G7116A)

Temperature

Left: ☐ Not Controlled ☒ 40.0 °C ☐ As Detector Cell ☐ Unchanged

Right: ☐ Not Controlled ☒ 25.0 °C ☐ As Detector Cell ☐ Unchanged ☒ Combined

Valve Position/Column

☐ Use Current Column / Position ☒ Use Selected Column / Position

Position 1

☐ Enforce column for run

Stoptime **Posttime**

☒ As Pump/Injector ☐ 1.00 min ☐ Off ☐ 1.00 min

Advanced

Enable Analysis

☒ when front door open

Left: ☐ With any temperature ☒ When temperature is within ± 0.8 °C for 0.0 min

Right: ☐ With any temperature ☒ When temperature is within ± 0.8 °C for 0.0 min

Valve Position/Column After Run

☒ Do not switch ☐ Switch to position / column at beginning of run ☐ Increase valve position / column ☐ Use valve position / column

Position 1

Timetable (empty)

Ok Apply Cancel

Figure 27 Method setting 1260 Infinity II Multicolumn Thermostat (G7116A)

6 Change the method settings for the 1260 Infinity II Diode Array Detector WR (G7115A)

DAD (G7115A)

Signals

	Acquire	Wave length	Band width	Reference Wavelength	Reference Bandwidth	
Signal A	☒	254	4	☒ 360	100	nm
Signal B	☐	254	4	☐ 360	100	nm
Signal C	☐	210	4	☐ 360	100	nm
Signal D	☐	230	4	☐ 360	100	nm
Signal E	☐	280	4	☐ 360	100	nm
Signal F	☐	260	4	☐ 360	100	nm
Signal G	☐	270	4	☐ 360	100	nm
Signal H	☐	290	4	☐ 360	100	nm

Peakwidth

> 0.0063 min (0.13 s response time) (40 Hz)

Stoptime

☒ As Pump/Injector ☐ 1.00 min

Posttime

☒ Off ☐ 1.00 min

Advanced

Spectrum

Store: None

Range from: 190 to 400 nm

Step: 2.0 nm

Analog Output

Zero Offset: 5 %

Attenuation: 1000 mAU

Margin for negative Absorbance

100 mAU

Slit

4 nm

Autobalance

☒ Prerun ☐ Postrun

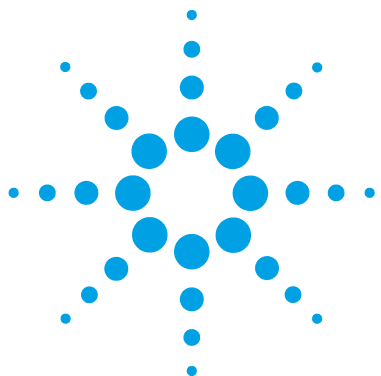
Lamps on required for acquisition

☒ UV Lamp ☐ Vis Lamp

Timetable (empty)

Figure 28 Method setting 1260 Infinity II Diode Array Detector WR (G7115A)

- 7** Save the method as GRAD-1.M
- 8** Equilibrate the system for 10 min under checkout conditions
- 9** Run and evaluate the checkout method



4 Parts and Consumables

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Capillaries for use with the InfinityLab Quick Turn Fitting	71

This chapter provides information on additional parts and consumables.



Tool Kit

The HPLC System Tool Kit contains all tools to operate and maintain a 1260 Infinity II LC system.

The High quality tools are packed in an appealing tool case.

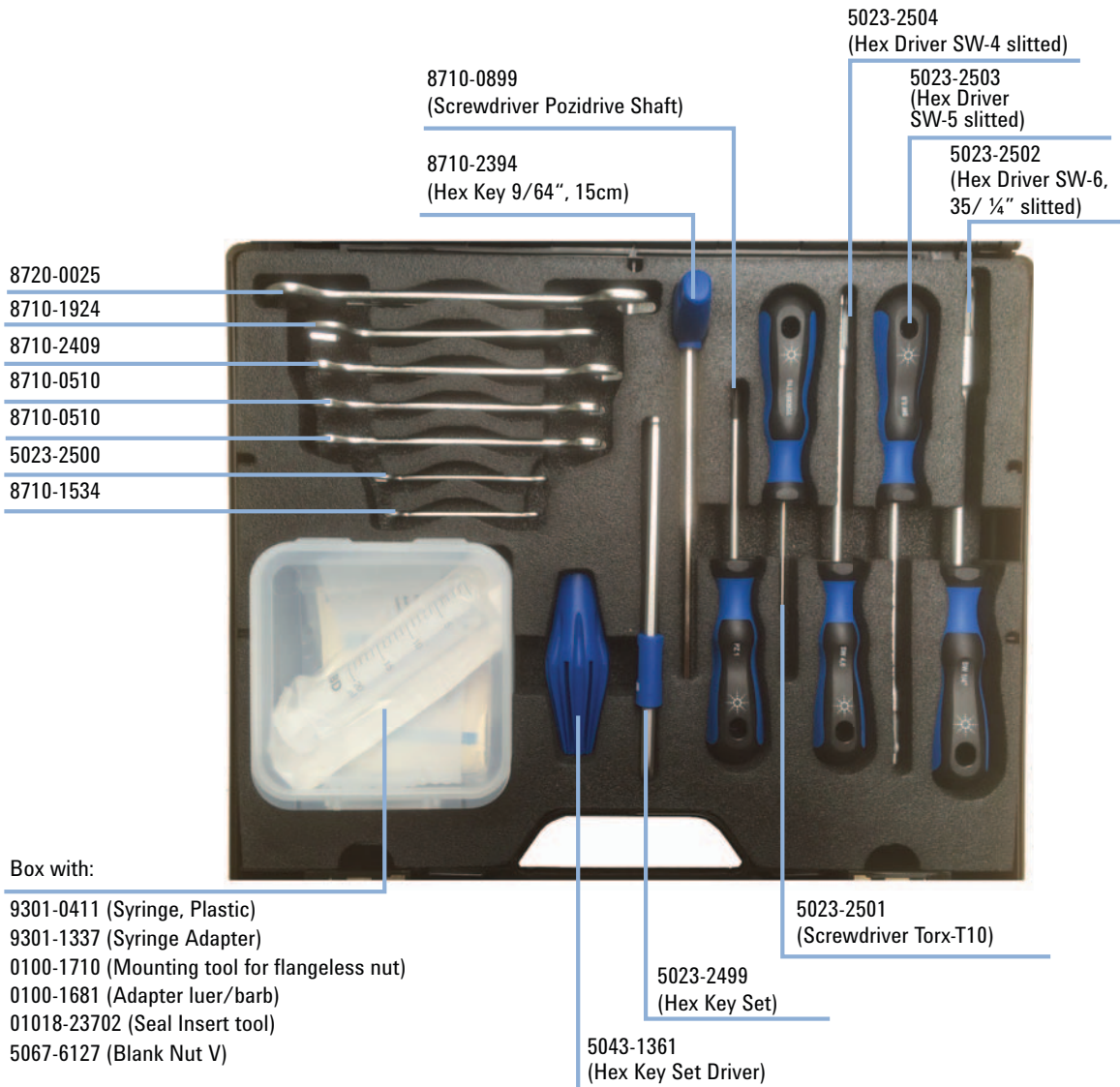


Figure 29 Tool kit

InfinityLab Quick Connect and Quick Turn Fittings

InfinityLab Quick Connect Fittings

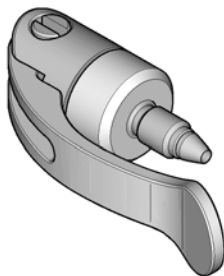


Figure 30 InfinityLab Quick Connect Fitting

p/n	Description
5067-5965	InfinityLab Quick Connect LC fitting (fitting without pre-installed capillary)
5067-5961	InfinityLab Quick Connect Assy ST 0.075 mm x 105 mm
5067-6163	InfinityLab Quick Connect Assy ST 0.075 mm x 150 mm
5067-6164	InfinityLab Quick Connect Assy ST 0.075 mm x 220 mm
5067-6165	InfinityLab Quick Connect Assy ST 0.075 mm x 280 mm (fitting without pre-installed capillary)
5067-5957	InfinityLab Quick Connect Assy ST 0.12 mm x 105 mm
5067-5958	InfinityLab Quick Connect Assy ST 0.12 mm x 150 mm
5067-5959	InfinityLab Quick Connect Assy ST 0.12 mm x 220 mm
5067-5960	InfinityLab Quick Connect Assy ST 0.12 mm x 280 mm
5067-6166	InfinityLab Quick Connect Assy ST 0.17 mm x 105 mm
5067-6167	InfinityLab Quick Connect Assy ST 0.17 mm x 150 mm
5067-6168	InfinityLab Quick Connect Assy ST 0.17 mm x 220 mm
5067-6169	InfinityLab Quick Connect Assy ST 0.17 mm x 280 mm

InfinityLab Quick Connect Fitting Replacement Capillaries

p/n	Description
5500-1174	InfinityLab Capillary ST 0.075 mm x 105 mm
5500-1175	InfinityLab Capillary ST 0.075 mm x 150 mm
5500-1176	InfinityLab Capillary ST 0.075 mm x 220 mm
5500-1177	InfinityLab Capillary ST 0.075 mm x 250 mm
5500-1178	InfinityLab Capillary ST 0.075 mm x 280 mm
5500-1173	InfinityLab Capillary ST 0.12 mm x 105 mm
5500-1172	InfinityLab Capillary ST 0.12 mm x 150 mm
5500-1171	InfinityLab Capillary ST 0.12 mm x 220 mm
5500-1170	InfinityLab Capillary ST 0.12 mm x 280 mm
5500-1179	InfinityLab Capillary ST 0.12 mm x 400 mm
5500-1180	InfinityLab Capillary ST 0.12 mm x 500 mm
5500-1181	InfinityLab Capillary ST 0.17 mm x 105 mm
5500-1182	InfinityLab Capillary ST 0.17 mm x 150 mm
5500-1183	InfinityLab Capillary ST 0.17 mm x 220 mm
5500-1230	InfinityLab Capillary ST 0.17 mm x 280 mm
5500-1231	InfinityLab Capillary ST 0.17 mm x 500 mm

InfinityLab Quick Turn Fitting

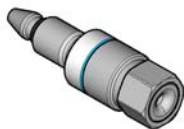


Figure 31 InfinityLab Quick Turn Fitting

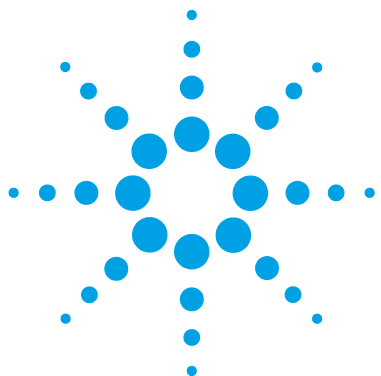
p/n	Description
5067-5966	InfinityLab Quick Turn fitting

Capillaries for use with the InfinityLab Quick Turn Fitting

p/n	Description
5500-1198	Capillary ST 0.075 mm x 105 mm, long socket
5500-1232	Capillary ST 0.075 mm x 150 mm, long socket
5500-1188	Capillary ST 0.12 mm x 105 mm, long socket
5500-1189	Capillary ST 0.12 x 150 mm, long socket
5500-1233	Capillary ST 0.12 mm x 180 mm, long socket
5500-1190	Capillary ST 0.12 mm x 200 mm, long socket
5500-1191	Capillary ST 0.12 mm x 280 mm, long socket
5500-1192	Capillary ST 0.12 mm x 500 mm, long socket
5500-1193	Capillary ST 0.17 mm x 105 mm, long socket
5500-1194	Capillary ST 0.17 mm x 150 mm, long socket
5500-1234	Capillary ST 0.17 mm x 180 mm, long socket
5500-1195	Capillary ST 0.17 mm x 200 mm, long socket
5500-1196	Capillary ST 0.17 mm x 280 mm, long socket
5500-1235	Capillary ST 0.17 mm x 380 mm, long socket
5500-1236	Capillary ST 0.17 mm x 400 mm, long socket
5500-1197	Capillary ST 0.17 mm x 500 mm, long socket

4 **Parts and Consumables**

InfinityLab Quick Connect and Quick Turn Fittings



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This chapter provides addition information on safety, legal, and web.



Safety

General Safety Information

The following general safety precautions must be observed during all phases of operation, service, and repair of this instrument. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture, and intended use of the instrument. Agilent Technologies assumes no liability for the customer's failure to comply with these requirements.

WARNING

Ensure the proper usage of the equipment.

The protection provided by the equipment may be impaired.

→ The operator of this instrument is advised to use the equipment in a manner as specified in this manual.

Safety Standards

This is a Safety Class I instrument (provided with terminal for protective earthing) and has been manufactured and tested according to international safety standards.

General

Do not use this product in any manner not specified by the manufacturer. The protective features of this product may be impaired if it is used in a manner not specified in the operation instructions.

Before Applying Power

WARNING

Wrong voltage range, frequency or cabling

Personal injury or damage to the instrument

- Verify that the voltage range and frequency of your power distribution matches to the power specification of the individual instrument.
 - Never use cables other than the ones supplied by Agilent Technologies to ensure proper functionality and compliance with safety or EMC regulations.
 - Make all connections to the unit before applying power.
-

NOTE

Note the instrument's external markings described under “[Symbols](#)” on page 78.

Ground the Instrument

WARNING

Missing electrical ground

Electrical shock

- If your product is provided with a grounding type power plug, the instrument chassis and cover must be connected to an electrical ground to minimize shock hazard.
 - The ground pin must be firmly connected to an electrical ground (safety ground) terminal at the power outlet. Any interruption of the protective (grounding) conductor or disconnection of the protective earth terminal will cause a potential shock hazard that could result in personal injury.
-

Do Not Operate in an Explosive Atmosphere

WARNING

Presence of flammable gases or fumes

Explosion hazard

- Do not operate the instrument in the presence of flammable gases or fumes.
-

Do Not Remove the Instrument Cover

WARNING

Instrument covers removed

Electrical shock

- Do Not Remove the Instrument Cover
 - Only Agilent authorized personnel are allowed to remove instrument covers. Always disconnect the power cables and any external circuits before removing the instrument cover.
-

Do Not Modify the Instrument

Do not install substitute parts or perform any unauthorized modification to the product. Return the product to an Agilent Sales and Service Office for service and repair to ensure that safety features are maintained.

In Case of Damage

WARNING

Damage to the module

Personal injury (for example electrical shock, intoxication)

- Instruments that appear damaged or defective should be made inoperative and secured against unintended operation until they can be repaired by qualified service personnel.
-

Solvents

WARNING

Toxic, flammable and hazardous solvents, samples and reagents

The handling of solvents, samples and reagents can hold health and safety risks.

- When working with these substances observe appropriate safety procedures (for example by wearing goggles, safety gloves and protective clothing) as described in the material handling and safety data sheet supplied by the vendor, and follow good laboratory practice.
- Do not use solvents with an auto-ignition temperature below 200 °C (392 °F). Do not use solvents with a boiling point below 56 °C (133 °F).
- Avoid high vapor concentrations. Always keep the temperature in the sample compartment at least 25 K below the boiling point of the solvent used.
- Do not operate the instrument in an explosive atmosphere.
- Reduce the volume of substances to the minimum required for the analysis.
- Never exceed the maximum permissible volume of solvents (8 L) in the solvent cabinet. Do not use bottles that exceed the maximum permissible volume as specified in the usage guideline for solvent cabinet.
- Ground the waste container.
- Regularly check the filling level of the waste container. The residual free volume in the waste container must be large enough to collect the waste liquid.
- To achieve maximal safety, regularly check the tubing for correct installation.

NOTE

For details, see the usage guideline for the solvent cabinet. A printed copy of the guideline has been shipped with the solvent cabinet, electronic copies are available in the Agilent Information Center or via the Internet.

Symbols

Table 8 Symbols

	The apparatus is marked with this symbol when the user should refer to the instruction manual in order to protect risk of harm to the operator and to protect the apparatus against damage.
	Indicates dangerous voltages.
	Indicates a protected ground terminal.
	The apparatus is marked with this symbol when hot surfaces are available and the user should not touch it when heated up.
	Cooling unit is designed as vapor-compression refrigeration system. Contains fluorinated greenhouse gas (refrigerant) according to the Kyoto protocol. For specifications of refrigerant, charge capacity, carbon dioxide equivalent (CDE), and global warming potential (GWP) see instrument label.
	Confirms that a manufactured product complies with all applicable European Community directives. The European Declaration of Conformity is available at: http://regulations.corporate.agilent.com/DoC/search.htm
	Manufacturing date.
	Power symbol indicates On/Off. The apparatus is not completely disconnected from the mains supply when the power switch is in the Off position
	Pacemaker Magnets could affect the functioning of pacemakers and implanted heart defibrillators. A pacemaker could switch into test mode and cause illness. A heart defibrillator may stop working. If you wear these devices keep at least 55 mm distance to magnets. Warn others who wear these devices from getting too close to magnets.

Table 8 Symbols

	Magnetic field Magnets produce a far-reaching, strong magnetic field. They could damage TVs and laptops, computer hard drives, credit and ATM cards, data storage media, mechanical watches, hearing aids and speakers. Keep magnets at least 25 mm away from devices and objects that could be damaged by strong magnetic fields.
	Indicates a pinching or crushing hazard
	Indicates a piercing or cutting hazard.

WARNING

A WARNING

alerts you to situations that could cause physical injury or death.

- Do not proceed beyond a warning until you have fully understood and met the indicated conditions.

CAUTION

A CAUTION

alerts you to situations that could cause loss of data, or damage of equipment.

- Do not proceed beyond a caution until you have fully understood and met the indicated conditions.

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In This Book

This manual contains technical reference information about the Agilent InfinityLab LC Series 1260 Infinity II Binary LC system.

The manual describes the following:

- introduction,
- product description,
- best practices,
- system optimization,
- quick start guide.

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