Agilent CrossLab
From Insight to Outcome

Agilent CrossLab Start Up Services

Agilent InfinityLab LC Series
Site Preparation Checklist

Site Preparation Information Guide and Checklist

Thank you for purchasing an instrument from **Agilent Technologies**. CrossLab Start Up is focused on helping customers shorten the time it takes to start realizing the full value of their instrument investment.

Correct site preparation is the key first step in ensuring that your instruments and software systems operate reliably over an extended lifetime. This document is an **information guide and checklist** prepared for you that outlines the supplies, space, and utility requirements for the system set up in your lab.

Customer Information

- If you have questions or problems in providing anything described as part of Customer Responsibilities below, please contact your local Agilent or partner support / service organization for assistance prior to delivery. In addition, Agilent and/or its partners reserve the right to reschedule the installation dependent upon the readiness of your laboratory.
- Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-schedule any services that have been purchased.
- Other optional services such as additional training, operational qualification (OQ) and consultation for user-specific applications may also be provided at the time of installation when ordered with the system but should be contracted separately.
- Please refer to the other peripheral products (ie, samplers etc.) for site preparation requirements.

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Customer Responsibilities

Ensure that your site meets the following specifications before the installation date. For details, see specific sections within this checklist, including:

- The necessary laboratory or bench space is available.
- The required **environmental conditions for the lab** as well as laboratory gases, tubing.
- The **power requirements** related to the product (e.g. **number & location** of electrical outlets).
- The **required operating supplies** necessary for the product and installation.
- While Agilent is delivering **Installation and Introduction** services, users of the instrument should be present throughout these services; otherwise, they will miss important operational, maintenance and safety information.
- Please consult the **Special Requirements and Other Considerations** section below for other product-specific information.
- HPLC grade (or better) solvents needed for installation (acetonitrile, isopropanol, and water).

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Important Customer Web Links

- To access Agilent training and education, visit https://www.agilent.com/en/training-events/events/agilent-education to learn about training options, which include online, classroom, and onsite delivery. A training specialist can work directly with you to help determine your best options.
- To access the **Agilent Resource Center** web page, visit https://www.agilent.com/en-us/agilentresources. Some of the included topics include:
  - Columns, Supplies, Sample Prep, and Containment
  - Chemical Standards
  - Service and Support
- The **Agilent Community** is an excellent place to get answers, collaborate with others about applications and Agilent products, and find in-depth documents and videos relevant to Agilent technologies. Visit https://community.agilent.com/welcome
- **Need to place a service call?** https://explore.agilent.com/on-demand-online

Useful Web Links

- Videos about specific preparation requirements for your instrument can be found by searching the Agilent YouTube channel at https://www.youtube.com/user/agilent.
- To access Agilent SubscribeNet, visit https://agilent.subscribenet.com. SubscribeNet is an online software and license delivery, update, and management service that provides you easy access to the latest versions of your software and licenses.

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Module List

Module identification: The module identifier (e.g. G7117A) can be found on the lower right side of the module front cover.

The information in this document applies to Infinity II and Infinity III modules.

Module	Instrument Description
G1170A	1290 Valve Drive
G1328C	1260 Manual Injector
G1330B	1290 Thermostat
G1364F	1260 Analytical Fraction Collector
G1390B	Universal Interface Box II
G4208A	1200 Instant Pilot
G4260B	1260 Evaporative Light Scattering Detector
G4756A	InfinityLab Sample ID Reader
G5628A	1260 Bio-inert Manual Injector
G5654A	1260 Bio-inert Quaternary Pump
G5664B	1260 Bio-inert Fraction Collector
G5668A	1260 Bio-inert Multisampler
G7102A	1290 Evaporative Light Scattering Detector
G7104A	1290 Flexible Pump
G7104C	1260 Flexible Pump
G7110B	1260 Isocratic Pump
G7111A	1260 Quaternary Pump VL
G7111B	1260 Quaternary Pump
G7112B	1260 Binary Pump
G7114A	1260 Variable Wavelength Detector
G7114B	1290 Variable Wavelength Detector
G7115A	1260 Diode Array Detector WR
G7116A	1260 Multicolumn Thermostat
G7116B	1290 Multicolumn Thermostat

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Module	Instrument Description
G7117A	1290 Diode Array Detector FS
G7117B	1290 Diode Array Detector
G7117C	1260 Diode Array Detector HS
G7120A	1290 High-Speed Pump
G7121A	1260 Fluorescence Detector
G7121B	1260 Fluorescence Detector Spectra
G7122A	1260 Degasser
G7123B	1290 Fluorescence Detector
G7129A	1260 Vialsampler VL
G7129B	1290 Vialsampler
G7129C	1260 Vialsampler
G7130A	InfinityLab Integrated Column Compartment
G7131A	1290 Bio Flexible Pump
G7131C	1260 Bio Flexible Pump
G7132A	1290 Bio High-Speed Pump
G7137A	1290 Bio Multisampler
G7137B	1290 Hybrid Multisampler
G7162A	1260 Refractive Index Detector
G7162B	1290 Refractive Index Detector
G7165A	1260 Multiple Wavelength Detector
G7167A	1260 Multisampler
G7167B	1290 Multisampler
G7167C	1260 Hybrid Multisampler
G7167-60201	InfinityLab Sample Thermostat
G7175A	InfinityLab Level Sensing
G7179A	InfinityLab Assist Interface
G7180A	InfinityLab Assist Hub
G7800A	1260 GPC/SEC Multi-Detector Suite
G7801A	1260 GPC/SEC MDS Refractive Index Detector

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Module	Instrument Description
G7802A	1260 GPC/SEC MDS Viscometer
G7803A	1260 GPC/SEC MDS Light Scattering Detector
G7805A	1260 Bio-SEC Multi-Detector Suite
G7808A	1260 Bio-SEC Light Scattering Detector
G7809A	1260 Bio-SEC Dynamic Light Scattering Detector
G7885A	1260 Multi-Angle Light Scattering Detector
G7886A	1260 GPC/SEC Column Thermostat
G7887A	GPC/SEC-Ready Kit
SQ/High-End MS	For the mass spectrometers, please refer to the corresponding documents for further information

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Site Preparation

Dimensions and Weight

Identify the laboratory bench space before your system arrives based on the table below. Pay special attention to the total height and total weight requirements for all system components you have ordered and avoid bench space with overhanging shelves. Also pay special attention to the total weight of the modules you have ordered to ensure your laboratory bench can support this weight.

Some modules are too heavy to be lifted by one person alone. Arrange necessary assistance **prior to installation**.

The following table provides dimensions and weight requirements.

Instrument Description	Weight		Height		Width		Depth	
	kg	lbs	mm	in	mm	in	mm	in
G1170A	1.9	4.3	90	3.54	90	3.54	300	11.8
G1330B	20.7	46	140	5.5	345	13.5	435	17.0
G1364F	13.5 [1]	29.8 [1]	200	8	345	13.5	440	17.0
G1390B	0.9	2	165	6.5	135	5.3	55	2.2
G4260B	11 [2], 13 [3]	24.3 [2], 28.7 [3]	415	16.3	200	7.9	450	17.7
G5654A	14.5	32	180	7.1	396	15.6	436	17.2
G5664B	13.5 [1]	29.8 [1]	200	8	345	13.5	440	17.0
G5668A	22 [4]	48.5 [4]	320	12.6	396	15.6	468	18.4
G7102A	11 [2], 13 [3]	24.3 [2], 28.7 [3]	415	16.3	200	7.9	450	17.7
G7104A	16.1	35.5	180	7.1	396	15.6	436	17.2
G7104C	16.1	35.5	180	7.1	396	15.6	436	17.2
G7110B	12.6	28	180	7.1	396	15.6	436	17.2
G7111A	14.5	32	180	7.1	396	15.6	436	17.2
G7111B	14.5	32	180	7.1	396	15.6	436	17.2
G7112B	17.6	38.8	180	7.1	396	15.6	436	17.2

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Instrument Description	Weight		Height		Width		Depth	
	kg	lbs	mm	in	mm	in	mm	in
G7114A	11	24.3	140	5.5	396	15.6	436	17.2
G7114B	11	24.3	140	5.5	396	15.6	436	17.2
G7115A	12	26.5	140	5.5	396	15.6	436	17.2
G7116A	12.5	27.6	160	6.3	435 (460 [5])	17.1 (18.1 [5])	436	17.2
G7116B	12.5	27.6	160	6.3	435 (470 [6])	17.1 (18.6 [6])	436	17.2
G7117A	11.5	25.4	140	5.5	396	15.6	436	17.2
G7117B	11.5	25.4	140	5.5	396	15.6	436	17.2
G7117C	11.5	25.4	140	5.5	396	15.6	436	17.2
G7120A	21	46.3	200	7.9	396	15.6	436	17.2
G7121A	11.9	26.2	140	5.5	396	15.6	436	17.2
G7121B	11.9	26.2	140	5.5	396	15.6	436	17.2
G7122A	7	16	80	3.1	396	15.6	436	17.2
G7123B	15.9	35.05	203	8	396	15.59	436	17.17
G7129A	19 [4]	41.9 [4]	320	12.8	396	15.6	468	18.4
G7129B	19 [4]	41.9 [4]	320	12.8	396	15.6	468	18.4
G7129C	19 [4]	41.9 [4]	320	12.8	396	15.6	468	18.4
G7130A [7]	1.8	4.0	86.5	3.4	396	15.6	106.5	4.2
G7131A	16.8	37.0	180	7.1	396	15.6	436	17.2
G7131C	16.8	37.0	180	7.1	396	15.6	436	17.2
G7132A	22.5	49.6	200	7.9	396	15.6	436	17.2
G7137A	22 [4]	48.5 [4]	320	12.6	396	15.6	468	18.4
G7137B	22 [4]	48.5 [4]	320	12.6	396	15.6	468	18.4
G7162A	15	33	180	7.1	396	15.6	436	17.2
G7162B	15	33	180	7.1	396	15.6	436	17.2
G7165A	12	26.5	140	5.5	396	15.6	436	17.2
G7167A	22 [4]	48.5 [4]	320	12.6	396	15.6	468	18.4

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Instrument Description	Weight		Height		Width		Depth	
	kg	lbs	mm	in	mm	in	mm	in
G7167B	22 [4]	48.5 [4]	320	12.6	396	15.6	468	18.4
G7167C	22 [4]	48.5 [4]	320	12.6	396	15.6	468	18.4
G7167-60201 [7]	< 6kg	< 13.2 lbs	205	8.1	340	13.4	370	14.6
G7175A	8.9	19.6	169	6.7	441	17.4	396	15.6
G7179A	1.1	2.4	178	7.0	259	10.2	39.5	1.6
G7180A	4.4	9.7	61	2.4	396	15.6	441	17.4
G7800A	20	44.1	650	25.6	400	15.8	490	19.2
G7805A	12.5	27.6	400	16	400	16	490	20
G7885A	16.5	36.4	160	6.3	260	10.3	460	18.1
G7886A	12.5 [2], 16 [3]	28 [2], 35.5 [3]	600	24	177	7	345	14

[1] without thermostat

[2] non-cooled

[3] cooled

[4] without sample thermostat

[5] width with column identification kit/left column ID tag reader

[6] width with column identification kit/two column ID tag readers

[7] is a fully integrated module, therefore it only contributes to the hosting module's weight

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Equipment Positioning on the Bench

- The module dimensions and weight allow you to place the module on almost any desk or laboratory bench. It needs an additional 2.5 cm (1.0 inch) of space on either side and approximately 8 cm (3.1 inches) in the rear for air circulation and electric connections. The ELSD needs an additional approximately 15 cm (5.9 inches) of space in the rear for air circulation and electric connections. If the bench shall carry a complete HPLC system, make sure that the bench is designed to bear the weight of all modules. The autosampler module, especially with a sample thermostat installed, should be operated in a proper horizontal position.
- To calculate the height of the stack, sum the height of the individual modules of your stack.
- If a 5067-6871 (Solvent Cabinet Kit) is placed on top of the stack, add 2.5 cm (1.0 inches) floor level of the solvent cabinet, plus the height of the bottles, plus the height of bottle head assemblies in use.

  The solvent cabinet has the following dimensions (height x depth x width):

  92 x 436 x 396 mm (3.6 x 17.2 x 15.6 inches)
- If a G7175A Level Sensing is placed on top of the stack, add 6.0 cm (2.4 inches) floor level of the bottle plates in the module, plus the height of the bottles, plus the height of bottle head assemblies in use.

  The Level Sensing module has the following dimensions (height x depth x width):

  92 x 436 x 396 mm (6.7 x 17.4 x 15.6 inches)
- To ensure proper functionality, the area around the base of the G7175A Level Sensing must be kept clear of any objects. Additionally, no items should touch the solvent plates.

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Environmental Conditions

Operating your instrument within the recommended temperature ranges ensures optimum instrument performance and lifetime.

- Performance can be affected by sources of heat & cold, e.g. direct sunlight, heating/cooling from air conditioning outlets, drafts and/or vibrations.
- The bench or supporting surface must be vibration free.
- The laboratory's ambient temperature conditions must be stable for optimum performance.
- Heat, cold, or vibration generated from other InfinityLab LC Series modules, which are installed according to instructions provided by Agilent Technologies, do not affect the performance of the LC system.
- The Agilent 1260 Infinity Bio-SEC MDS is not fitted with extraction but depending on the solvents used in the equipment it might be necessary to site the unit under an extraction hood or installed in a fume cupboard. ATTENTION: Housing the unit in a fume cupboard may compromise the temperature stability of the detector(s).

The following table may help you calculate the additional BTUs of heat dissipation from this new equipment. Maximums represent the heat given off when heated zones are set for maximum temperatures.

Instrument Description	Operating Temperature Range °C (°F)	Operating Humidity Range %	Operating Altitude m (ft)
G1170A, G1390B, G7104A, G7104C, G7110B, G7111A, G7111B, G5654A, G7112B, G7114A, G7114B, G7115A, G7116A, G7116B, G7120A, G7121A, G7121B, G7132A, G7131A, G7131C, G7162A, G7162B, G7165A, G7117A, G7117B, G7117C	4 - 55 °C (39 - 131 °F), constant temperature	< 95 % r.h. at 40 °C (104 °F), non-condensing	Up to 3000 m (9842 ft)
G1330B, G1364F, G5664B	4 - 40 °C (39 - 104 °F)	< 95 % r.h. at 25 - 40 °C (77 - 104 °F), non-condensing [1]	Up to 3000 m (9842 ft)
G7102A, G4260B	10 - 35 °C (50 - 95 °F), constant temperature	< 95 % r.h. at 40 °C (104 °F), non-condensing	Up to 3000 m (9842 ft)
G7122A	0 - 55 °C (32 - 131 °F), constant temperature	< 95 % r.h. at 40 °C (104 °F), non-condensing	Up to 3000 m (9842 ft)

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Instrument Description	Operating Temperature Range °C (°F)	Operating Humidity Range %	Operating Altitude m (ft)
G7129A, G7129B, G7129C	4 - 40 °C (39 - 104 °F), without Sample Thermostat up to 55 °C (131 °F)	< 95 % r.h. at 40 °C (104 °F), non-condensing [1]	Up to 3000 m (9842 ft)
G7130A	4 - 55 °C (39 - 131 °F), constant temperature	< 95 % r.h. at 40 °C (104 °F), non-condensing [1]	Up to 3000 m (9842 ft)
G7167A, G7167B, G7167C, G5668A, G7137A, G7137B, G7167-60201	4 - 40 °C (39 - 104 °F), constant temperature	< 95 % r.h. at 40 °C (104 °F), non-condensing [1]	Up to 3000 m (9842 ft)
G7123B, G7175A	4 - 40 °C (39 - 104 °F)	< 95 % r.h. at 40 °C (104 °F), non-condensing	Up to 3000 m (9842 ft)
G7179A	4 - 40 °C (39 - 104 °F)	< 90 % r.h., non-condensing	Up to 3000 m (9842 ft)
G7180A	4 - 45 °C (39 - 113 °F)	< 95 % r.h. at 40 °C (104 °F), non-condensing	Up to 3000 m (9842 ft)
G7800A, G7805A	15 - 30 °C (59 - 86 °F)	< 95 % r.h. at 40 °C (104 °F), non-condensing	Up to 3000 m (9842 ft)
G7885A	10 - 30 °C (50 - 86 °F)	20 - 80 % r.h. (non-condensing)	Up to 3000 m (9842 ft)
G7886A	5 - 40 °C (41 - 104 °F)	20 - 80 % r.h.	Up to 3000 m (9842 ft)

[1] If a thermostat is installed, the upper humidity limit can be reduced. Please check your lab conditions to stay beyond dew point values for non-condensing operation.

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Power Consumption

- If a computer system is supplied with your instrument, be sure to account for those electrical outlets.
- The heat dissipation can be calculated from the active power, using the following equation: 1 W = 3.413 BTU/h

Instrument Description	Line Voltage and Frequency V, Hz	Maximum Power Consumption VA	Maximum Power Consumption W
G1170A	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	20 VA	4 W
G1330B	100 - 240 V (AC) (± 10 %), 50 or 60 Hz (± 5 %)	260 VA	210 W
G1364F, G5664B	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	200 VA	180 W
G1390B	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	140 VA	65 W
G7102A, G4260B	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	480 VA	150 W
G7104A, G7104C, G7131A, G7131C	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	120 VA	110 W
G7110B, G7111A, G7111B, G5654A	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	80 VA	65 W
G7112B	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	90 VA	74 W
G7114A, G7114B, G7162A, G7162B	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	80 VA	70 W
G7115A, G7117A, G7117B, G7117C, G7165A	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	110 VA	100 W
G7116A, G7116B	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	150 VA	150 W
G7120A, G7132A	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	210 VA	180 W
G7121A, G7121B	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	70 VA	60 W
G7122A	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	30 VA	30 W
G7123B	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	240 VA	240 W

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Instrument Description	Line Voltage and Frequency V, Hz	Maximum Power Consumption VA	Maximum Power Consumption W
G7129A, G7129B, G7129C	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	350 VA [1]	350 W [1]
G7130A			110 W
G7162A, G7162B	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	80 VA	70 W
G7167A, G7167B, G7167C, G5668A, G7137A, G7137B	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)	180 VA [2]	180 W [2]
G7175A	100 - 240 V (AC) (± 10 %) 50 or 60 Hz	20 VA	20 W
G7179A	IEEE 802.3bt Class 5 (42.5 - 57 VDC)	IEEE 802.3bt Class 5 (42.5 - 57 VDC, 0.5 A)	
G7180A	100 - 240 V (AC) 50 or 60 Hz	200 VA	
G7800A, G7805A	100 - 240 V (AC) (± 10 %) 50 or 60 Hz (± 5 %)		150 W
G7885A	100 - 240 V (AC) 50 or 60 Hz		155 W
G7886A	115 - 230 V (± 10 %) 50 or 60 Hz	550 VA	

[1] Maximum power consumption corresponds to a sampler with the Sample Thermostat and the Integrated Column Compartment installed.

[2] Maximum power consumption corresponds to a sampler with the Sample Thermostat installed.

- Use the correct power cord.
- For G7805A: The Agilent 1260 Infinity Bio-SEC Multi Detector Suite System was loaded with three detectors (RI Detector, Viscometer, and Dual Angle LSD).
- For G7886A: If the selected voltage is not correct, change to the proper voltage setting by removing, inverting, and then re-entering the voltage selector cartridge.

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Required Operating Supplies by Customer for Installation

- For information on Agilent consumables, accessories, and laboratory operating supplies, please visit: https://www.agilent.com/en-us/products/lab-supplies

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Special Requirements and Other Considerations

Solvent Requirements

Customer should have available HPLC grade solvents (acetonitrile, isopropanol, and water) with a dry residue below 1 ppm or MS grade solvents.

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Hardware and Software Requirements - G7178A InfinityLab Assist Upgrade

The following PC and software requirements are needed for viewing the browser user interface and running the chromatography data system (CDS).

Table 1: Software Requirements

Specification Description	Details
Operating system name, version	Windows 10 or 11, Enterprise of Professional, 64-bit
Web browser	Chromium-based browser (Chrome, Edge, etc.) with a version higher than 132 Safari-based browser with a version higher than 17.5.1

Table 2: Network Requirements

Specification Description	Supported
Network type, bandwidth, speed, protocol, etc.	Internet Protocol Version 4 (TCP/IPv4)
IP Address	Static or DHCP Reservation

The InfinityLab Assist is compatible with the following CDS software versions:

Table 3: Compatible Software Version

Supported CDS Software	Minimum Software Versions
OpenLab CDS 2.x	OpenLab CDS 2.6 OpenLab CDS 2.7 OpenLab CDS 2.8 OpenLab CDS 2.8 Update 3 for Client/Server (provides browser access)
MassHunter	LC-(Q)TOF MH 12.1 LC-TQ MH 12.2
ChemStation	OpenLab ChemStation C.01.10 OpenLab ChemStation LTS C.01.11
Empower	Empower 3 Feature Release 4, or higher Agilent Driver for Waters Empower 4.1
Chromeleon	Chromeleon 7.2.10 MUf, or higher Chromeleon 7.3.1 Agilent Driver for Thermo Fisher Chromeleon 3.2 (LC Driver 3.9)

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Table 4: InfinityLab Assist Supported Modules

Module	Instrument Description
G1170A	1290 Valve Drive
G1390B	Universal Interface Box II
G4756A	InfinityLab Sample ID Reader
G5654A	1260 Bio-inert Quaternary Pump
G5668A	1260 Bio-inert Multisampler
G6160B	Pro iQ MS
G6170A	Pro iQ Plus MS
G6465B	Ultivo Triple Quadrupole LC/MS System
G6475A	Triple Quadrupole LC/MS System
G6495D	Triple Quadrupole LC/MS
G7104A	1290 Flexible Pump
G7104C	1260 Flexible Pump
G7110B	1260 Isocratic Pump
G7111A	1260 Quaternary Pump VL
G7111B	1260 Quaternary Pump
G7112B	1260 Binary Pump
G7114A	1260 Variable Wavelength Detector
G7114B	1290 Variable Wavelength Detector
G7115A	1260 Diode Array Detector WR
G7116A	1260 Multicolumn Thermostat
G7116B	1290 Multicolumn Thermostat
G7117A	1290 Diode Array Detector FS
G7117B	1290 Diode Array Detector
G7117C	1260 Diode Array Detector HS
G7120A	1290 High-Speed Pump
G7121A	1260 Fluorescence Detector
G7121B	1260 Fluorescence Detector Spectra
G7123B	1290 Fluorescence Detector

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Module	Instrument Description
G7129A	1260 Vialsampler VL
G7129B	1290 Vialsampler
G7129C	1260 Vialsampler
G7130A	InfinityLab Integrated Column Compartment
G7131A	1290 Bio Flexible Pump
G7131C	1260 Bio Flexible Pump
G7132A	1290 Bio High-Speed Pump
G7137A	1290 Bio Multisampler
G7137B	1290 Hybrid Multisampler
G7162A	1260 Refractive Index Detector
G7162B	1290 Refractive Index Detector
G7165A	1260 Multiple Wavelength Detector
G7167A	1260 Multisampler
G7167B	1290 Multisampler
G7167C	1260 Hybrid Multisampler
G7175A	InfinityLab Level Sensing
Clusters	2D-LC Cluster, HDR-DAD Cluster, Pump Valve Cluster, Valve Thermostat Cluster

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Hardware and Software Requirements - G4756A Sample ID Reader

The InfinityLab Sample ID Reader is compatible with the following CDS software versions, features might be limited:

Table 5: Compatible software versions

Supported CDS Software	Software Versions
OpenLab CDS 2.x	OpenLab CDS version 2.7 or higher
MassHunter	MassHunter for LC/QTOF 12.1 MassHunter for LC/TQ 12.2
ChemStation	Openlab ChemStation LTS 01.11 + Update 3 or higher

Table 6: Firmware and driver requirements

Requirement	Minimum version
Firmware	7.41 for Multisampler
Driver	3.8

Table 7: InfinityLab Sample ID Reader supported modules

Module	Instrument Description
G3167A	1260 Online Sample Manager
G3167B	1290 Bio Online Sample Manager
G4767A	1260 SFC Multisampler
G5668A	1260 Bio-inert Multisampler
G7137A	1290 Bio Multisampler
G7137B	1290 Hybrid Multisampler
G7167A	1260 Multisampler
G7167B	1290 Multisampler
G7167C	1260 Hybrid Multisampler

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Hardware and Software Requirements - G7175A Level Sensing

The InfinityLab Level Sensing is compatible with the following CDS software versions:

Table 8: Compatible software versions

Supported CDS Software	Software Versions
OpenLab CDS 2.x	OpenLab CDS version 2.8 Update 07 or higher

Table 9: Firmware and driver requirements

Requirement	Minimum version
Firmware	7.42 for pump
Driver	3.9

The Pump must be1260/1290 Infinity II or III pump.

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G4260B Evaporative Light Scattering Detector, G7102A Evaporative Light Scattering Detector

Gas requirements

A supply of inert gas (typically nitrogen) is required to operate these detectors. The gas supply needs to be free of oil, humidity and particles, as such contaminations will create background noise in the chromatograms and may damage the built-in pressure sensor. In case of such noise, flush the gas lines for sufficient time (might take days) and use additional filters of 0.5 µm or less. The typical gas pressure is 4 bar (60 psi) and must be set by an external pressure regulator. Pure gas is not required as the gas is only used as a carrier for the solid sample particles. The gas inlets of the detector have an outer diameter of 4 mm (0.157 inches). The lab installation must therefore allow the installation of a tubing with 4 mm (0.157 inches) outer diameter. Gas consumption is typically 0.9 SLM to 3.25 SLM, depending on the detector settings

Item description, (including dimensions etc.)	Vendor/Part Number (if applicable)	Recommended quantity
G7102A, G4260B ELSD Gas Nitrogen (typical)	N/A	N/A

NOTE

Air can only be used for non-flammable solvents.

The mass flow controller is not calibrated for use with gases other than air or nitrogen.

Nitrogen should be of 98 % purity or better with a maximum pressure of 6.9 bar (100 psi).

For operation with other inert gases contact Agilent Technologies for advice.

Precautions: Solvent Vapors

Vapor sensors are used inside and outside the enclosure of the Agilent 1290 ELSD to alert the operator to solvent leaks. Liberal use of organic solvents in close proximity to the instrument may activate the vapor sensor, causing the instrument to shutdown.

Exhaust venting and drain requirements

The exhaust from the detector must be directed into a fume hood or exhaust vent. If a vacuum is used, it should be moderate so as to avoid turbulence in the optical chamber leading to a much reduced sensitivity of the detector. The potentially hazardous exhaust of evaporated solvent and sample must not be allowed to enter the laboratory atmosphere and any appropriate accessory like solvent filters should be disposed according to local environmental requirements.

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If the extraction tube provided with the instrument is to be extended it is recommended that the diameter of the extension is increased to at least 50 mm (2 inches) diameter tubing so the extraction quality is not inhibited.

NOTE Do not connect the exhaust vent directly to the detector.

This might cause either positive pressure or negative back pressure, both of which will impact the quality of your measurement results.

The drain tube must be directed to a waste container. The user is responsible for decontamination or recycling of any residue, according to local environmental requirements.

Further requirements

The 1290 ELSD (G7102A) and the 1260 ELSD (G4260B) can be controlled either via RS232 or via LAN. If the RS232 interface is used for control, the ELSD must be installed close to the control PC unless special data transmission systems are used. The length of the straight female/female RS232 cable supplied with both detectors is 2.9 m.

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G7167-60201 Sample Thermostat

The Sample Thermostat uses isobutane (R600a) as refrigerant, which is environmentally friendly but flammable. Therefore, make some special considerations for the safe operation of the device:

- Keep open fire or sources of ignition away from the device.
- Ensure a room size of 1 m^3 for every 8 g of R600a refrigerant inside the Sample Thermostat (total refrigerant loading is 30 g).
- Ensure adequate ventilation: typical air exchange of 25 m^3/h per m^2 of laboratory floor area.
- Do not use mechanical devices or other means to accelerate the defrosting process.
- Keep the ventilation openings on the housing clear of any obstruction or blockage.

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Extra Customer Responsibilities - G7800A GPC/SEC Multidetector Suite, G7805A Bio-SEC Multidetector Suite, G7885A Multi-Angle Light Scattering Detector

For the G7800A GPC/SEC Multidetector Suite, G7805A Bio-SEC Multidetector Suite and G7885A Multi-Angle Light Scattering Detector, the following extra points must be provided:

- The required operating supplies necessary for the product and installation for aqueous applications (including capability of injecting 100 µL with a manual injector or autosampler).
  - Clean and sterile solvent bottle with 0.1 µm Triple-filtered Water (lab water of UHP 18 MOhm or LS/MS grade) containing 0.05 % sodium azide (Azide is optional).
  - 5022-2159 (Restriction capillary, SST 0.12 mm ID, 2 m long) .
  - In-Line Filter Assembly 0.5 µm cutoff (Agilent recommends: UCA431). (The G7805A already is supplied with a filter when delivered).
  - Agilent Advance GPC/SEC SUPREMA Lux 1000 Å, 8 x 300 mm, 5 µm (SUA0830051E3LS) **OR** Agilent AdvanceBio SEC 300 Å, 7.8 x 300 mm, 2.7 µm (PL1180-5301).
- The required operating supplies necessary for the product and installation for organic applications (including capability of injecting 100 µL with a manual injector or autosampler).
  - Clean and sterile solvent bottle with stabilized tetrahydrofuran (THF).
  - 5022-2159 (Restriction capillary, SST 0.12 mm ID, 2 m long) .
  - In-Line Filter Assembly 0.5 µm cutoff (Agilent recommends: UCA431). (The G7805A already is supplied with a filter when delivered).
  - Agilent Advanced GPC/SEC SDV Lux 100000 Å, 8 x 300 mm, 5 µm (SDA0830051E5LS) **OR** Agilent PLgel MIXED-C, 7.5 x 300 mm, 5 µm (PL1110-6500).

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Stack Configurations

NOTE Generally install a G7122A Degasser underneath the pump.

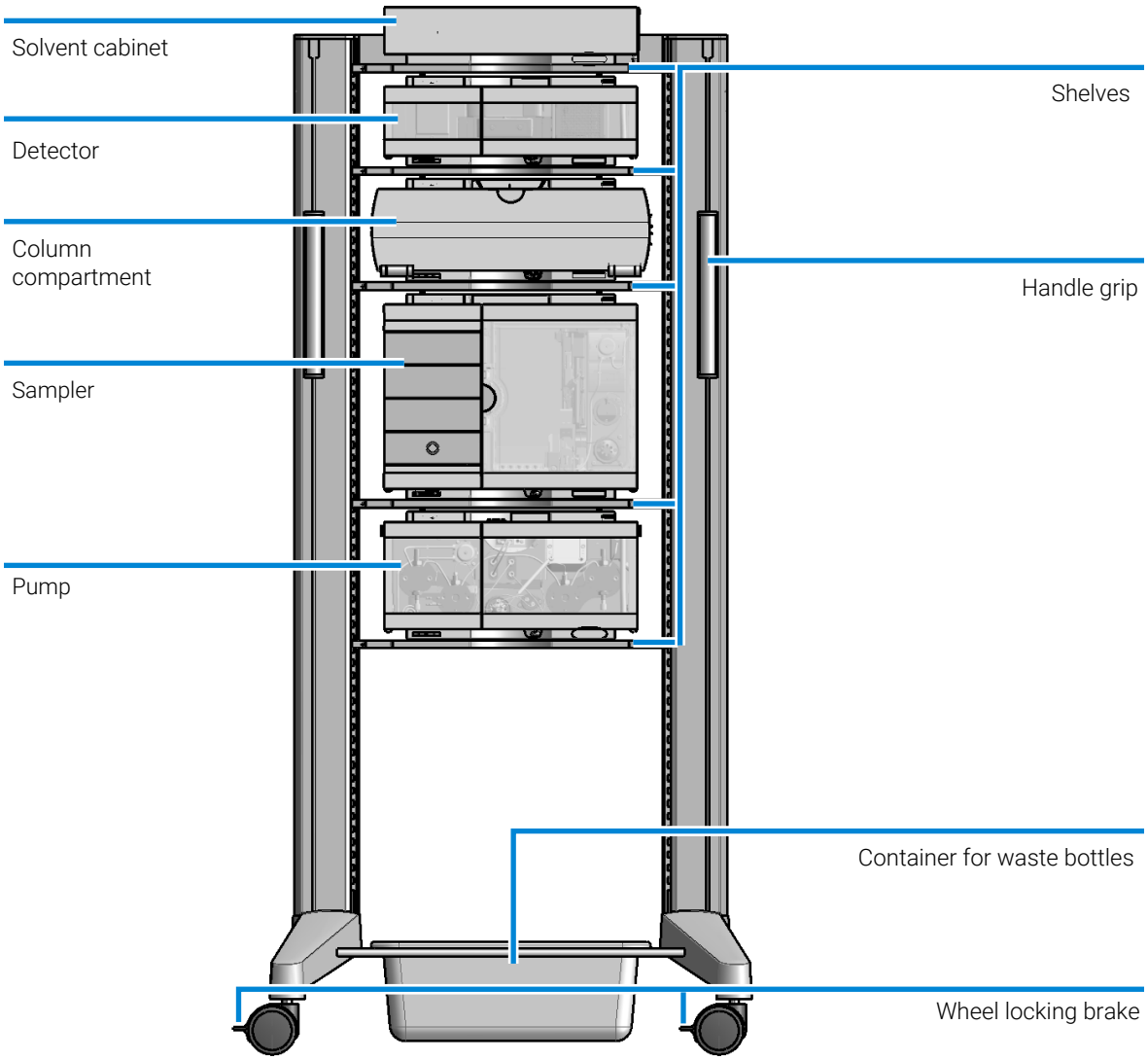

Figure 1: Agilent InfinityLab Flex Bench

NOTE Fraction Collectors are stacked in their own separate stack.

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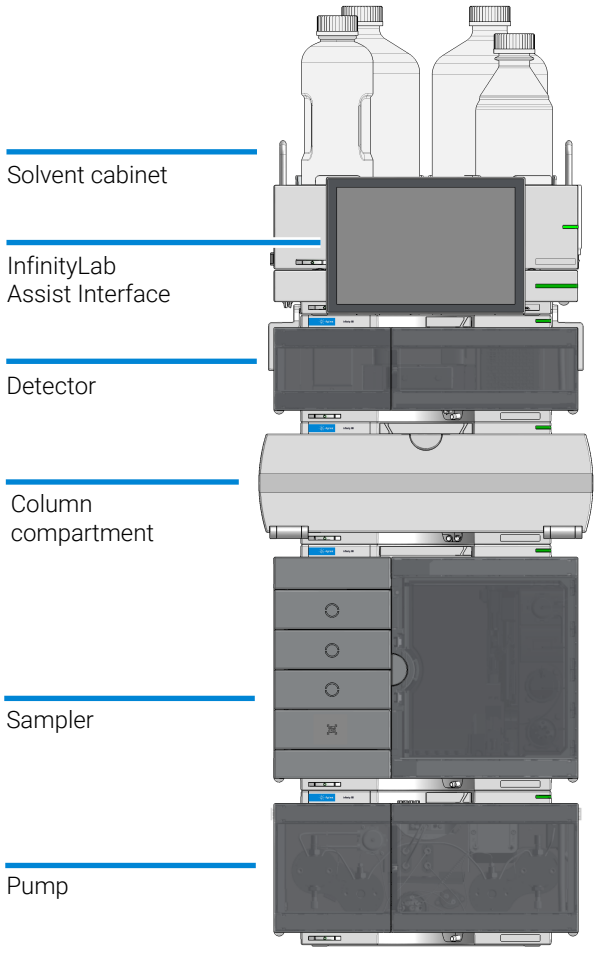

Figure 2: Single stack configuration (bench installation, example shows a Multisampler)

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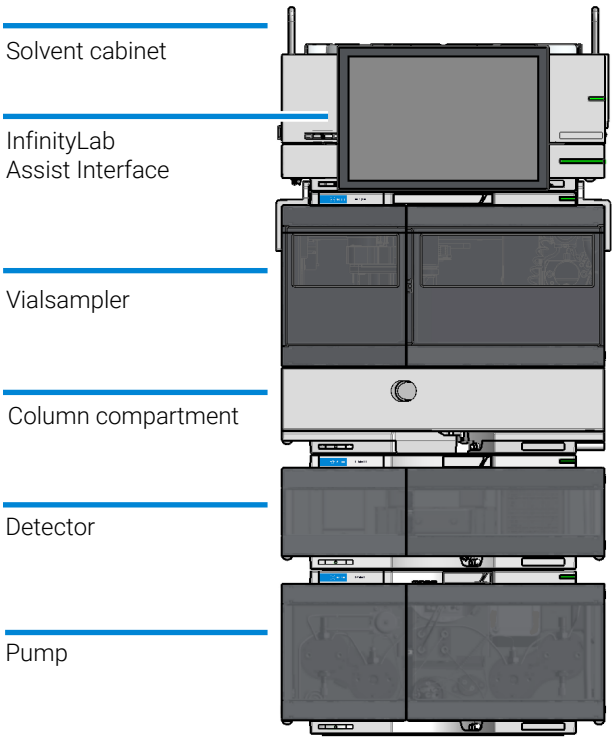

Figure 3: Single stack configuration (bench installation, example shows a Vialsampler with optional ICC installed)

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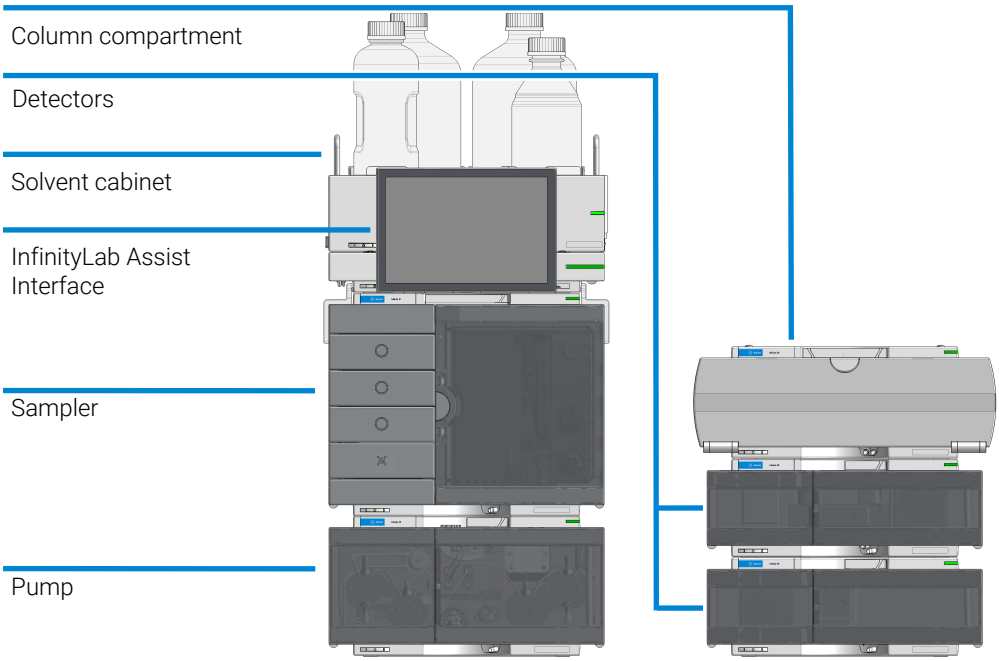

Figure 4: Two stack configuration (bench installation, example shows a Multisampler)

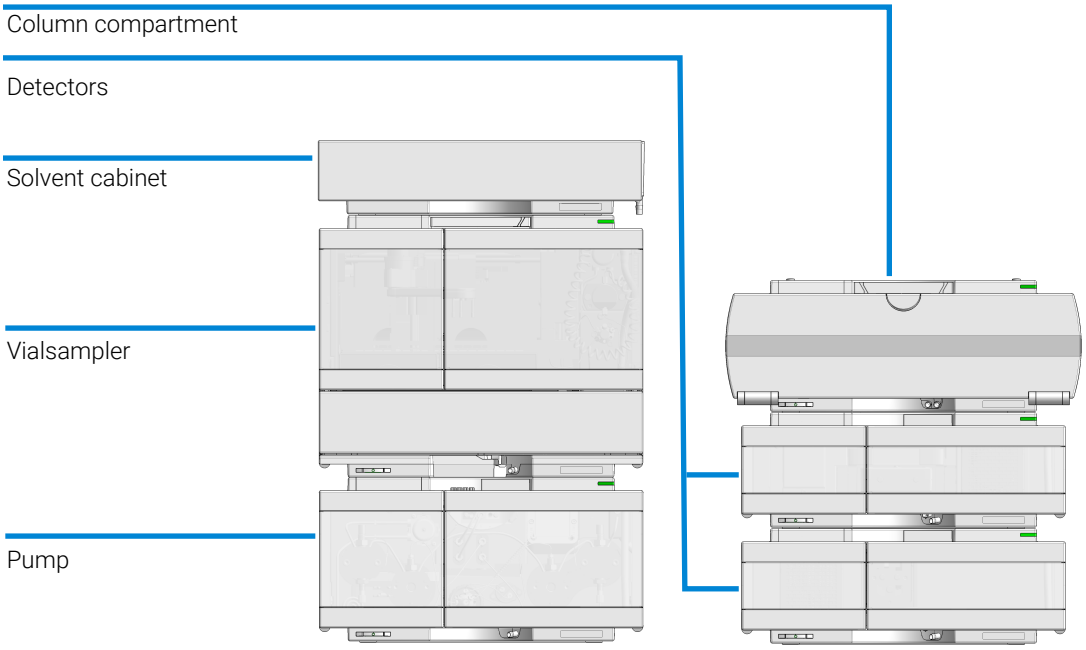

Figure 5: Two stack configuration (bench installation, example shows a Vialsampler coupled with a standalone column compartment)

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Mixed Stack Configurations

NOTE The optimal stack configuration may vary.

For details, refer to the documentation of the system in use. General recommendations for the Multisampler:

- Stack the Multisampler at the same position as recommended for other autosamplers
- Arrange the Multisampler coaxial to the other modules.

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Tools

Your Agilent instrument comes with a few basic tools and consumables which are relevant to the specific configuration of your system.

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Service Engineer Review (Optional)

Service Engineer Comments (Optional)

If there are any specific points you wish to note as part of performing the service review or other items of interest for the customer, please write in this box.

Site Preparation Verification

Date of Service Completion:	
Customer Name:	
Service Engineer Name:	
Service Engineer Signature:	

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