

# Agilent CrossLab Start Up Services

## Agilent 1220 Infinity/Infinity II LC Site Preparation 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.

# Introduction

## 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, Sampler, Barcode Reader, etc.) for site preparation requirements.

## 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.

## Important Customer Web Links

- To access **Agilent University**, visit <http://www.agilent.com/crosslab/university/> 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>. The following information topics are available:
  - Sample Prep and Containment
  - Chemical Standards
  - Analysis
  - Service and Support
  - Application Workflows
- 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>
- Videos about specific preparation requirements for your instrument can be found by searching the **Agilent YouTube** channel at <https://www.youtube.com/user/agilent>
- **Need to place a service call?**  
<https://www.agilent.com/en/promotions/flexible-repair-options>

## 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.

### Special notes

- The instrument requires a space of at least 2.5 cm (1.0 inch) on both sides, and approximately 8 cm (3.1 inches) at the rear for the circulation of air and room for electrical connections.

The following table provides dimensions and weight requirements.

Instrument Description	Weight		Height		Depth		Width	
	kg	lbs	cm	in	cm	in	cm	in
G4286B	25 kg	55 lbs	64 cm	25.2 in	42 cm	16.5 in	37 cm	14.6 in
G4288B/C	25 kg	55 lbs	64 cm	25.2 in	42 cm	16.5 in	37 cm	14.6 in
G4290B/C	30 kg	66 lbs	64 cm	25.2 in	42 cm	16.5 in	37 cm	14.6 in
G4294B	43 kg	94 lbs	64 cm	25.2 in	48.5 cm	19.1 in	37 cm	14.6 in

## Environmental Conditions

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

### Special notes

- 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 site's ambient temperature conditions must be stable for optimum performance of the system (as specified in the "Performance Specifications" section of the User Manual). Temperature changes of 2 °C/h or less (as defined by ASTM conditions) are required to achieve best possible baseline stability. Higher variations will definitely result in higher signal drift and wander of the baseline.
- Do not store, ship or use your instrument under conditions where temperature fluctuations could cause condensation within the instrument. Condensation will damage the system electronics. If your instrument was shipped in cold weather, leave it in and allow it to warm up slowly to room temperature to avoid condensation.
- Better drift performance depends on better control of the temperature fluctuations. To realize the highest performance, minimize the frequency and the amplitude of the temperature changes to below 1 °C/h (1.8 °F/h). Turbulences around one minute or less can be ignored.

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 %
G4286B	0 – 55 °C (32 – 131 °F), constant temperature.	< 95 %, non-condensing
G4288B/C	0 – 55 °C (32 – 131 °F), constant temperature.	< 95 %, non-condensing
G4290B/C	0 – 55 °C (32 – 131 °F), constant temperature.	< 95 %, non-condensing
G4294B	0 – 55 °C (32 – 131 °F), constant temperature.	< 95 %, non-condensing

## Information for ALS Cooler

Physical Specifications:

Type	Specification
Weight	5 kg
Dimensions (height × width × depth)	600 mm × 115 mm × 155 mm
Line voltage	100 – 240 V, 50 – 60 Hz
Fuse	T3.15 A/250 VAC
Max. power consumption	200 W
Ambient operating temperature	5 – 35 °C
Ambient non-operating temperature	-40 – 70 °C
Humidity	< 70 % r.h. at 30 °C, non-condensing

## Power Consumption

### Special notes

- 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 the active power, using the following equation:  
 $1 \text{ W} = 3.413 \text{ BTU/h}$

Instrument Description	Line Voltage and Frequency V, Hz	Maximum Power Consumption VA	Maximum Power Consumption W
G4286B	100 – 240 V $\pm$ 10 %, 50 – 60 Hz $\pm$ 5 %	240 VA	210 W
G4288B/C	100 – 240 V $\pm$ 10 %, 50 – 60 Hz $\pm$ 5 %	240 VA	210 W
G4290B/C	100 – 240 V $\pm$ 10 %, 50 – 60 Hz $\pm$ 5 %	240 VA	210 W
G4294B	100 – 240 V $\pm$ 10 %, 50 – 60 Hz $\pm$ 5 %	240 VA	210 W

- Use the correct power cord.

## Required Operating Supplies by Customer for Installation

### Special notes

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

Item Description (including Dimensions etc.)	Vendor's Part Number (if applicable)	Recommended Quantity
HPLC Grade Water (needed for installation)	N/A	500 mL
Vials (needed for installation)	N/A	5x 1.8 mL
Aceton or suitable solvent for UV-tracer checkout	N/A	1 mL

### Special Requirements and Other Considerations

Special requirements for the G4292A 1220 Mobile Upgrade kit necessary as specified in the G4292A 1220 Mobile Upgrade Kit – Site Preparation Checklist.

### Tools

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



## Service Engineer Review (Optional)

### Service Engineer Comments

If the Service Engineer completed a review of the Site Preparation requirements with the customer, the Service Engineer should complete the following Comments section. Both the Service Engineer and the customer should complete the Site Verification section below.

If there are any specific points that should be noted as part of performing the site preparation review or other items of interest for the customer, please write in this box.

## Site Preparation Verification

Service Request Number:

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Date Service Completed:

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Service Engineer Name:

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Customer Name:

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Service Engineer Signature:

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Customer Signature:

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Total number of pages in this document:

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