Agilent Technologies

Thank you for purchasing an Agilent instrument. To get you started and to assure a successful and timely installation, please refer to this specification or set of requirements.

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, consumables, space and utility requirements for your equipment for your site.

For additional information about our solutions, please visit our web site at http://www.chem.agilent.com/en-US/Pages/HomePage.aspx

Customer Responsibilities

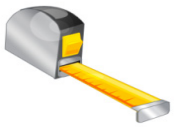
Make sure your site meets the following prior to the installation date using the checklist below. For details, see specific sections within this document, including:

- ❑ The necessary laboratory or bench space is available.
- ❑ The 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.
- ❑ Please consult Other/Special Requirements section below for other product-specific information.
- ❑ If Agilent is delivering installation and familiarization services, users of the instrument should be present throughout these services; otherwise, they will miss important operational, maintenance and safety information.

Important Customer Information

1. If you have questions or problems in providing anything described as **Customer Responsibilities** above, 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.
2. Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-arrange any services that have been purchased.
3. 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.

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:

1 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.

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 insures optimum instrument performance and lifetime.

Special Notes:

1. Performance can be affected by sources of heat & cold e.g. direct sunlight, heating/cooling from air conditioning outlets, drafts and/or vibrations.
2. 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.
3. 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.
4. 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.

Instrument Description	Operating temp 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:

1 If a computer system is supplied with your instrument, be sure to account for those electrical outlets.

2 The heat dissipation can be calculated from the the active power, using the following equation: 1 W = 3.413 BTU/h

Instrument Description	Line Voltage & Frequency (V, Hz)	Maximum Power Consumption (VA)	Maximum Power Consumption (W)
G4286B	100 – 240 V ± 10 %, 50 – 60 Hz ± 5 %	240 VA	210 W
G4288B/C	100 – 240 V ± 10 %, 50 – 60 Hz ± 5 %	240 VA	210 W
G4290B/C	100 – 240 V ± 10 %, 50 – 60 Hz ± 5 %	240 VA	210 W
G4294B	100 – 240 V ± 10 %, 50 – 60 Hz ± 5 %	240 VA	210 W

Required Operating Supplies by Customer

Special Notes:

- For information on Agilent consumables, accessories and laboratory operating supplies, please visit http://www.chem.agilent.com/en-US/Products/consumables/Pages/default.aspx

Item Description, (including dimensions etc)	Vendor/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

Other/Special Requirements

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