

The 1120 Compact LC Hardware Site

Purpose of Procedure

Your site must meet this specification or set of requirements to assure a successful and timely installation of your Agilent instrumentation. This document is designed to prevent delays during installation, familiarization, and the initial use of the system in your application. This document outlines the supplies, consumables, space and utility requirements for an 1120 Compact LC. It also recommends tools and consumables that may help you get started. Use this document along with the 1120 Installation documentation and Consumable Catalog. This information is also available from Agilent Technologies, Inc.'s website (<http://www.agilent.com>).

Customer Responsibilities

Make sure your site meets this specification, including: the necessary space, electric outlets, gases, tubing, operating supplies, consumables and other usage dependent items such as columns, vials, syringes and solvents (HPLC Grade water) required for the successful installation of instruments and systems. 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.

A. Self installation and familiarization service option

Your 1120 Compact LC system comes with the 1120 Compact LC Installation Guide that will guide you through this easy set up and installation process. In addition, information on how to use the instrument, it's software and other tools are available that will enable you to operate your instrument and maintain it throughout it's lifetime.

The self installation procedures cover Agilent 1120 Compact LC instruments with UV detectors only

The following 1120 Compact LC system configurations require on-site installation and familiarization by a service engineer and should be purchased as part of the system order prior to delivery. Please contact your sales representative to arrange for this:-

- 1120 Compact LC systems purchased with other Agilent devices to be connected such as Fluorescence, Refractive Index and/or Evaporative Light Scattering detectors.
- For customers that have chosen to purchase Qualification Services for this instrument
- For customers that have not operated Agilent HPLC equipment previously and/or have little HPLC technique knowledge and experience.

In the event of requiring further advice or technical assistance from Agilent Technologies and/or its partners, you should be aware that additional charges may apply for any additional support if it was not purchased previously.

B. Vendor provided Installation services

For customers that have purchased the installation and familiarization option, you will be contacted shortly by the installing engineer to arrange a convenient date. Your engineer may ask you questions about the preparations you have made, so please have this document available for the discussion.

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Compact LC System Site Preparation Specification

Warranty Information

Warranty support of one year on the instrument starts automatically 30 days from the date on which the instrument ships. For special circumstances where installation is significantly delayed, please contact your Support Provider who can initiate an extension to this date.

Warranty support for your software applications also starts on this date, but is limited to the first 90 days. After this time, additional technical support and service can be obtained from your Support Provider upon request.

In order to check the status of your warranty support on the instrument, please visit the Agilent web address and enter the product number and serial number of your instrument. This information is located on the bottom right corner of the instrument as you face it. <http://www.home.agilent.com/agilent/warranty.jsp?cc=ZZ&lc=eng&JPID=/find/warrantystatus>

Important Service Information

Assistance with the following additional services may also be obtained, but should be purchased separately:

1. Instrument training (3 day on-site training for up to 12 students)
2. Installation and Familiarization Services provided by a trained engineer
3. Repair services (contractual or per-incident)
4. Preventive Maintenance Services (contractual or per incident)
5. Qualification Services (contractual or per incident)
6. Specific applications advice (as needed)

Important Information

If you have problems in providing anything described as a *Customer Responsibility*, please contact your local Agilent Technologies office for assistance. Assistance with user specific applications may be provided but should be contracted separately.



Dimensions and Weight



Select the laboratory bench space before your system arrives. Pay special attention to the total height requirements. Avoid bench space with overhanging shelves. Pay special attention to the total weight of the module you have ordered. Make sure that your laboratory bench can support this weight.

Instrument	Weight		Height		Depth		Width	
G4286AA	25 kg	55 lbs.	64 cm	25.2 in	42 cm	16.5 in	37 cm	14.6 in
G4287AA	30 kg	66 lbs.	64 cm	25.2 in	42 cm	16.5 in	37 cm	14.6 in
G4288AA	25 kg	55 lbs.	64 cm	25.2 in	42 cm	16.5 in	37 cm	14.6 in
G4289AA	25 kg	55 lbs.	64 cm	25.2 in	42 cm	16.5 in	37 cm	14.6 in
G4290AA	30 kg	66 lbs.	64 cm	25.2 in	42 cm	16.5 in	37 cm	14.6 in

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Bench Space:

The compact dimension and weight allow the instrument to be placed on almost any laboratory bench. 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.

Ensure that the 1120 Compact LC is installed and operated in a horizontal position.



Environmental Conditions



Operating the LC instrument within the recommended temperature ranges insures optimum instrument performance and lifetime. Performance can be affected by sources of heat and cold from heating, air conditioning systems, or drafts.

Please Note:

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 / hour 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.

CAUTION:

Do not store, ship or use your Compact LC under conditions where temperature fluctuations could cause condensation within the instrument. Condensation will damage the system electronics. If your Compact LC was shipped in cold weather, leave it in and allow it to warm up slowly to room temperature to avoid condensation.

Instrument	Operating temp range	Operating humidity range
G4286AA, G4287AA, G4288AA, G4289AA, G4290AA	4 to 55°C (39 to 131°F), constant temperature.	< 95%, non-condensing

Type	Specification	Comments
Ambient non-operating temperature	-40–70 °C (-4–158 °F)	
Humidity	< 95%, at 25–40 °C (77–104 °F)	Non-condensing
Operating altitude	Up to 2000 m (6500 ft)	
Non-operating altitude	Up to 4600 m (14950 ft)	For storing the instrument
Safety standards: IEC, CSA, UL, EN	Installation Category II, Pollution Degree 2. For indoor use only.	

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Power Consumption



PLEASE NOTE:

An AC power outlet is required for the instrument, in addition to the Computer System (if applicable)

All Agilent 1120 Compact LC instruments have automatic line sensing, wide ranging power supplies. All 1120 Compact LC instruments operate with line voltages in the range of 100-240 VAC, +/- 10%, Line frequency 50 or 60 Hz, +/- 5%.

Instrument	Maximum Power Consumption [VA]	Maximum Power Consumption [W]	BTU
G4286AA, G4287AA, G4288AA, G4289AA, G4290AA	240 VA	210 W	717

WARNING: To disconnect the Compact LC from the line, unplug the power cord.

The power supply still uses some power, even if the power switch located on the front panel is turned OFF.

WARNING: Shock hazard or damage of your instruments can result, if the instruments are connected to a line voltage higher than specified.

CAUTION: Make sure to have easy access to the power cord of the instrument, in order to disconnect the instrument from the line.

WARNING: Never use cables other than the ones supplied by Agilent Technologies for your region. Agilent Technologies supplies cables that ensure proper functionality and compliance with safety or EMC regulations.

Power Cords:

Different power cords are offered as options with the system. The female end of the power cords is identical (connects to the instrument). It plugs into the power-input socket at the rear of the detector. The male end of each power cord is different and designed to match the wall socket of a particular country or region.

WARNING: Never operate your instrumentation from a power outlet that has no ground connection.

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Computer requirements (controlling PC)



A PC is not supplied with your system. It is a customer responsibility to supply the PC and the operating system software which is required for instrument control and data acquisition. Please make sure your PC adheres to the requirements below:

Operating System type(s)	Microsoft
Operating System version(s)	Win XP
Service pack version(s)	XP SP 2
Processor type or minimum speed, etc.	Pentium IV processor operating at 1.5 GHz or higher
Minimum memory	at least 1 GB of RAM
Minimum mass storage	Hard-disk partition with at least 40 GB free capacity
Peripherals required	Microsoft Windows compatible pointing device
Interfaces	LAN, RS232, at least 2 USB Ports
Graphics	SVGA or better graphics adapter and monitor (recommended resolution 1280 x 1024), True Color
Removable media	DVD Drive
Printers	Operating System compatible printer using PCL 5e / PCL 6

Additional information: Max. Distance between controlling PC and Compact LC 3m, because of delivered cable length.

Network Requirements

In order for your system software to be 21 CFR Part 11 compliant, it requires the presence of Local Windows User accounts.



Other considerations



Other Supplies & Consumables

Please make sure you have ordered the following laboratory supplies to ensure you can operate your new instrument.

- PM kit for manual injector systems (G4280-68710)
- PM kit for autosampler based systems (G4280-68730)
- Vials
- Solvents
- Columns

Thank you for your purchase and please let us know how we can be of further assistance.

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**Agilent 1120 Compact
Liquid Chromatograph**

Compact LC System Site Preparation Specification



G4280-90600

Part Number: **G4280-90600**

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