



**Agilent Technologies**

## **Agilent 1100 Series Liquid Chromatograph Site Preparation Specification**

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The information contained herein is intended for use by informed individuals who can and must determine its fitness for their purpose.



Site Preparation Specification

**Purpose of Procedure**

To assure that the installation of Agilent instruments and systems can be completed successfully by careful preparation and evaluation of the installation site and by ensuring the availability of appropriate utilities, consumables and supplies.

**Customer Responsibilities**

Customers should ensure that all necessary operating supplies, consumables and usage dependent items such as columns, vials, syringes and solvents required for the successful installation of instruments and systems are available - HPLC Grade Isopropanol, Acetonitrile and water.

Installation sites should be prepared in accordance with the following specifications.

**Important Information**

If you have problems in providing any of the following, please contact your local Agilent Technologies office for assistance. Assistance with user specific applications may be provided but should be contracted separately. Users of the instrument should be present throughout the installation and familiarization otherwise important operational, maintenance and safety information may be missed.

**Procedure Checklist**

**Dimensions and Weight**



**G1310A/G1311A Pumps:**

Weight: 11 kg	Height: 14 cm
25 lbs.	5.5 in
Depth: 43.5 cm	Width: 34.5 cm
17 in	13.5 in

**G1312A Pump:**

Weight: 15.5 kg	Height: 18 cm
34 lbs.	7 in
Depth: 43.5 cm	Width: 34.5 cm
17 in	13.5 in

**G1322A Degasser:**

Weight: 7.5 kg	Height: 8 cm
16.5 lbs.	3 in
Depth: 43.5 cm	Width: 34.5 cm
17 in	3.5 in

**G1313A/G1329A Autosampler:**

Weight: 14.2 kg	Height: 20 cm
31.3 lbs.	8 in
Depth: 43.5 cm	Width: 34.5 cm
17 in	13.5 in

**G1316A Thermostatted Column Compartment:**

Weight: 10.2 kg	Height: 14 cm
22.5 lbs.	5.5 in
Depth: 43.5 cm	Width: 41 cm
17 in	16 in

**G1314A Variable Wavelength Detector:**

Weight: 11 kg	Height: 14 cm
25 lbs.	5.5 in
Depth: 43.5 cm	Width: 34.5 cm
17 in	13.5 in

**G1315A Diode-array Detector/G1365A Multiple Wavelength Detector:**

Weight: 11.5 kg	Height: 14 cm
26 lbs.	5.5 in
Depth: 43.5 cm	Width: 34.5 cm
17 in	13.5 in

Check Boxes





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**G1321A Fluorescence Detector:**

Weight: 11.5 kg    Height: 14 cm  
          25.4 lbs.              5.5 in  
Depth: 43.5 cm    Width: 34.5 cm  
          17 in                   13.5 in

**Check Boxes**

**G1362A Refractive Index Detector:**

Weight: 17 kg        Height: 18 cm  
          38 lbs.                  7 in  
Depth: 43.5 cm    Width: 34.5 cm  
          17 in                   13.5 in

**G1330A ALS Thermostat:**

Weight: 18.5 kg    Height: 14.4 cm  
          40.7 lbs.              5.5 in  
Depth: 43.5 cm    Width: 34.5 cm  
          17 in                   13.5 in

***Environmental Conditions***



Temperature: ***G1314A, G1315A, G1365A & G1362A:***  
0 to 55°C,  
constant temperature.

***G1330A:***  
4 to 40°C

***G1321A:***  
0 to 40°C,  
constant temperature.

***All other modules:***  
4 to 55°C,  
constant temperature.

Humidity: < 95%, non-condensing



Site Preparation Specification

Check Boxes



**Power**



Voltage: 100 - 120 VAC, +/- 10%  
220 - 240 VAC, +/- 10%

Wide ranging

Consumption:

G1310/11A Iso/Quat Pump:	180 VA	614 BTU/hr
G1312A Binary Pump:	220 VA	751 BTU/hr
G1322A Degasser:	30 VA	103 BTU/hr
G1313A Autosampler:	180 VA	614 BTU/hr
G1330A Sample Thermostat	260 VA	887 BTU/hr
G1329A Autosampler	300 VA	1024 BTU/hr
G1316A Therm Column Comp:	320 VA	1092 BTU/hr
G1314/5A VWD & DAD:	220 VA	751 BTU/hr
G1365A MWD:	220 VA	751 BTU/hr
G1321A FLD:	180 VA	614 BTU/hr
G1362A RID:	160 VA	549 BTU/hr

**PLEASE NOTE: An AC outlet is required for EACH module, in addition to the Computer System (if applicable)**

*Mechanical Specifications*



**Bench Space:**

The modular dimensions and weight allow the instrument to be placed on almost any laboratory bench. The instrument requires an additional 2.5 cm (1.0 inch) of space on either side, and approximately 8 cm (3.1 inches) at the rear for the circulation of air and room for electrical connections. Ensure the modules are installed in a horizontal position.

If the bench should carry a complete Agilent Technologies 1100 Series system, make sure that the bench is designed to carry the weight of all the modules.

The G1327A (consisting of G1329A and G1330A) can be setup on a conventional laboratory bench. The instrument requires an additional 25 cm (10 inches) of space on either side for the circulation of air, and approximately 8 cm (3.1 inches) at the rear for electrical connections.

**Ensure the thermostatted autosampler is installed in a horizontal position.**



Site Preparation Specification

Check Boxes



***Recommended Stack Configuration:***

The Agilent Technologies 1100 Series system including the thermostatted autosampler will be installed in two stacks, as the height of one single stack is too high. For the complete system the bench should be about 1 m wide. The thermostat requires 25 cm (10 inches) of space on either side for the circulation of air.

***Please refer to attached documents "Optimizing the Stack Configuration".***

Site Preparation Specification

**Figure 1** Recommended Stack Configuration (Front View)

