Agilent 1100 Series
Liquid Chromatograph

Agilent Technologies

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

Check Boxes ❑

Dimensions and Weight

G1310A/G1311A Pumps:
Weight: 11 kg (25 lbs.) Height: 14 cm (5.5 in)
Depth: 43.5 cm (17 in) Width: 34.5 cm (13.5 in)

G1312A Pump:
Weight: 15.5 kg (34 lbs.) Height: 18 cm (7 in)
Depth: 43.5 cm (17 in) Width: 34.5 cm (13.5 in)

G1322A Degasser:
Weight: 7.5 kg (16.5 lbs.) Height: 8 cm (3 in)
Depth: 43.5 cm (17 in) Width: 34.5 cm (3.5 in)

G1313A/G1329A Autosampler:
Weight: 14.2 kg (31.3 lbs.) Height: 20 cm (8 in)
Depth: 43.5 cm (17 in) Width: 34.5 cm (13.5 in)

G1316A Thermostatted Column Compartment:
Weight: 10.2 kg (22.5 lbs.) Height: 14 cm (5.5 in)
Depth: 43.5 cm (17 in) Width: 41 cm (16 in)

G1314A Variable Wavelength Detector:
Weight: 11 kg (25 lbs.) Height: 14 cm (5.5 in)
Depth: 43.5 cm (17 in) Width: 34.5 cm (13.5 in)

G1315A Diode-array Detector/G1365A Multiple Wavelength Detector:
Weight: 11.5 kg (26 lbs.) Height: 14 cm (5.5 in)
Depth: 43.5 cm (17 in) Width: 34.5 cm (13.5 in)

G1321A Fluorescence Detector:

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

Check Boxes ❑

G1362A Refractive Index Detector:

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

G1330A ALS Thermostat:

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

Check Boxes

Power ❑

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

Wide ranging

Consumption:

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

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.

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".

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