



1220 Infinity/Infinity II Mobile LC Site Preparation Checklist

Thank you for purchasing the Agilent 1220 Infinity Mobile-LC Upgrade Kit. 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, space and utility requirements for the successful installation of a mobile LC in a vehicle.

NOTE

This site preparation is especially designated for mobile LC, for other common installation requirements, like power consumption, please refer to 1220 Infinity/Infinity II LC site preparation checklist.

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 requisitions 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 handle plate which is shipped as part of the mobile solution must be available at the instrument where it should get installed to by the Agilent service representative.
- 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.
- Operating the instrument in a mobile lab environment can require special equipment or facilities to comply with local safety regulations (e.g. special solvent waste and storage containers). Please verify that these regulations are met before you operate the instrument in your mobile lab.



Important Customer Information

- 1 The Agilent Installation service for the G4292A Infinity Mobile LC Kit does not include the installation of the attenuation unit to the bench of the mobile lab. It is the **responsibility of the customer** or the provider of the mobile lab. Proper installation and fastening of the attenuation unit to the mobile lab's bench is necessary to guarantee safe operation and prevent damage to the instrument. It is necessary to choose a suitable solution in terms of the required fastening material (screws or bolts) and the bench (material and strength) to fit the requirements for safety and stability. Because of the expected varieties in bench material and strength the fastening material is not included in the kit.

Further information given in this document will help you to find the right solution.

- 2 The Agilent 1220 Infinity Mobile-LC Upgrade Kit (G4292A) is compatible with G4290B or G4294B systems shipped after July 2012.
- 3 If you have questions or problems in providing anything described as a **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.
- 4 Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to rearrange any services that have been purchased.
- 5 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.

Special Requirements

Bench Space

The attenuation unit has a footprint of 480 mm (18.9 in) in width and 445 mm (17.5 in) in depth.

The overall room specified for operation (**width x depth x height**) of **560 mm (22.1 in) x 665 mm (26.2 in) x 970 mm (38.2 in)** already includes the space for a complete 1220 Infinity/Infinity II LC Instrument mounted onto the attenuation unit and considering the necessary room for air circulation, electrical connections and safety area for the possible movement of the instrument on the attenuation unit.

For a comfortable handling of the solvent bottles additionally 20 cm (7.9 in) should be kept free above the bottles.

See [Figure 1](#) on page 3 for more details.



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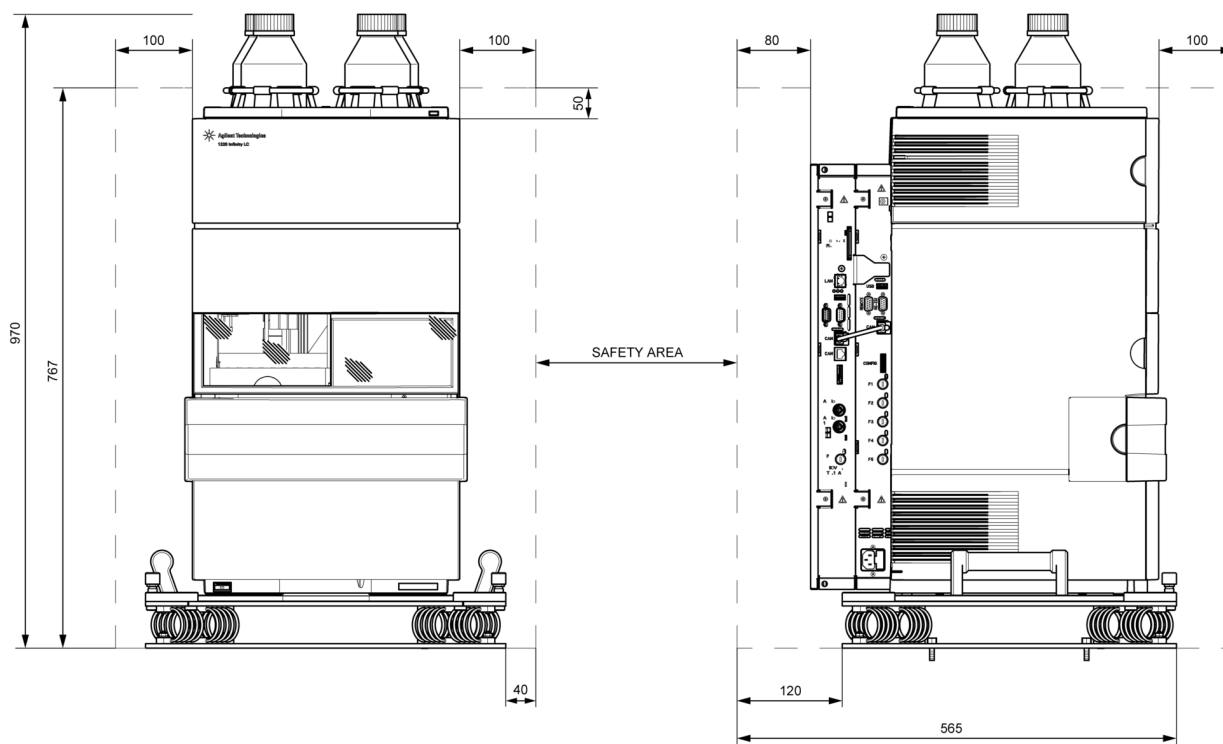


Figure 1 Required space for a 1220 Infinity/Infinity II LC Instrument installed to a mobile upgrade kit (numbers given in mm)

Bench Material and Strength

A proper bench must be chosen under the aspect that it must bear the combined weight of the instrument with solvent bottles and the mobile kit.

The bench material must be suitable for a proper fastening solution.

Fastening Solution

A suitable fastening solution (screws or bolts) must be chosen to secure the attenuation unit to the bench of the mobile lab.

This solution must be strong enough to withstand the forces that will result from the possible accelerations that can occur in a moving vehicle (app. 2000 N per screw, based on a calculation with 1 G acceleration and the weight of a G4294B).

The head of the chosen screws or bolts must not stand out more than 15 mm on top of the attenuation unit's bottom plate.

The attenuation unit comes with four 8.5 mm (0.33 in) diameter holes prepared in the lower plate and four 20 mm (0.79 in) diameter holes located directly above them in the top plate. This allows the use of a 14 mm (9/16 in) nut for tightening the screws or bolts.

See [Figure 2](#) on page 4 for the layout information of the holes that must be prepared to the bench.



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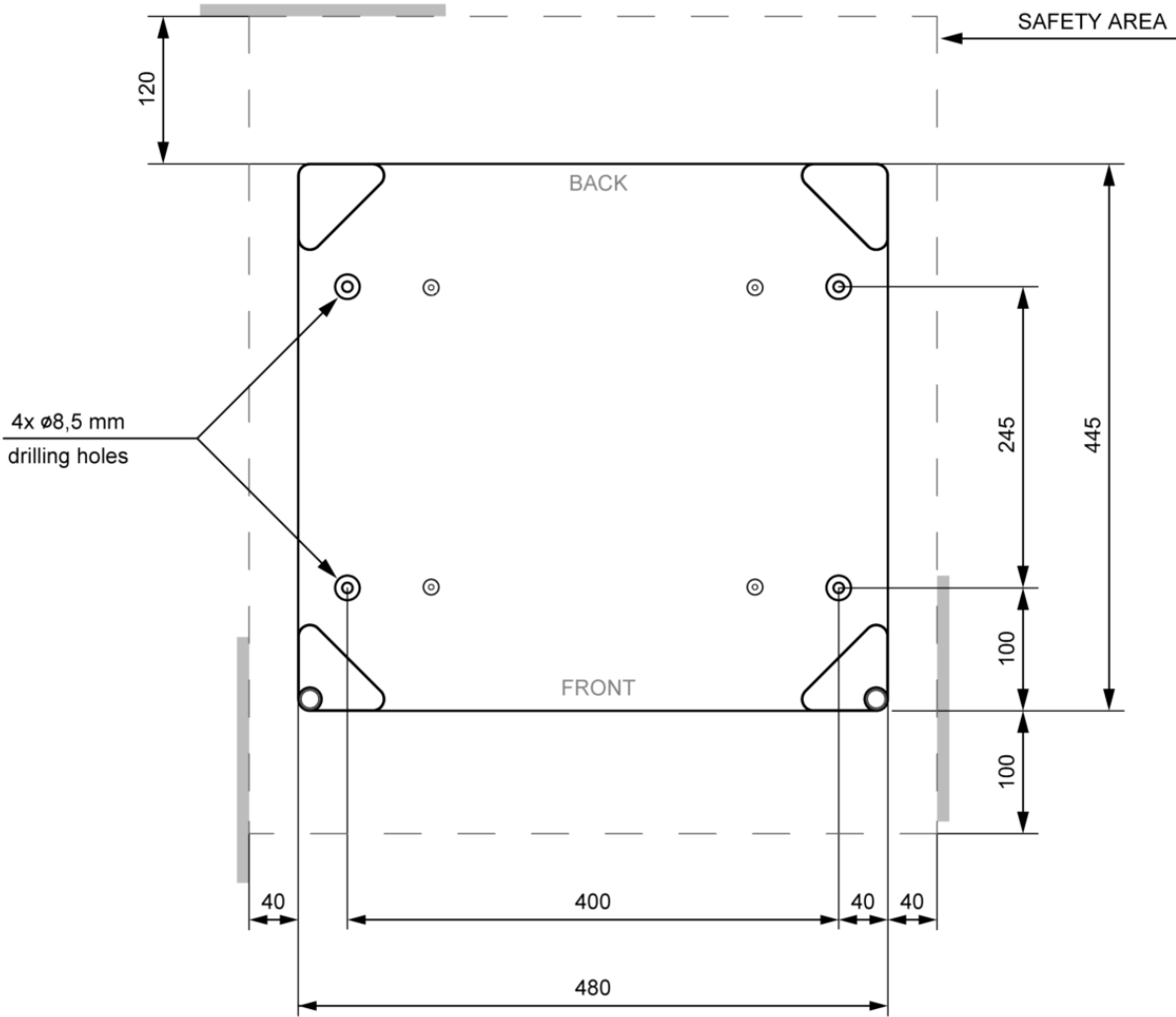


Figure 2 Dimensions of the attenuation unit



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Dimensions and Weight



Instrument Description	Weight		Height		Depth		Width	
	kg	lbs	cm	in	cm	in	cm	in
G4290B/C (1220 LC with VWD)	30	66	64	25.2	42	16.5	37	14.6
G4294B (1220 LC with DAD)	43	94	64	25.2	48.5	19.1	37	14.6
G4292A Mobile Upgrade Kit	14.2	31.3	7.3	2.9	44.5	17.6	48	18.9



Environmental Conditions

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

Special Notes

- 1 If you want to relocate the Compact LC Instrument from your room lab into a mobile lab, all environmental conditions must meet the specifications for operating instrument.

NOTE

Please refer to the site preparation check list for the instrument or to the specifications listed in the instrument manual.

- 2 Please make sure that there is a good ventilation system to vent all toxic solvent vapors out of the mobile lab.
- 3 Temperature fluctuations during the transfer of the instrument to or from the mobile lab can cause condensations within the instrument. Allow the instrument to warm slowly to room temperature before you power it on to avoid damage on the system electronic.
- 4 Performance can be affected by sources of heat & cold e.g. direct sunlight, heating/cooling from air conditioning outlets, drafts and/or vibrations.