

Site Preparation Specification

Purpose of Procedure

To ensure that the installation site is properly evaluated and prepared with the appropriate utilities, consumables and supplies for the successful installation of Agilent instruments and systems.

Customer Responsibilities

Customers should ensure that all necessary operating supplies, consumables and usage dependent items such as columns, vials, syringes, solvents and buffers required for the successful installation of instruments and systems are available. Installation sites should be prepared in accordance with the following specifications. An Agilent customer engineer will call approximately 2 weeks prior to installation to confirm site readiness.

Important Information

This checklist is designed to be used in conjunction with the Agilent 1100 Series LC/MSD Site Preparation Manual. If you have problems providing any of the following, please contact your local Agilent sales 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



Agilent G1946A/B/C/D Mainframe:
*footprint:**

Depth: 62.3 cm Width: 64.0 cm
 24.5 in 25.2 in

*maximum cabinet dimensions:***

Weight: 63.1 kg Height: 57.5 cm
 138.75 lb 22.6 in
Depth: 68.83 cm Width: 73.0 cm
 27.1 in 28.75 in

E1M18 Mechanical Pump:

Weight: 32.0 kg Height: 23 cm
 70.4 lb 9.2 in
Depth: 51.0 cm Width: 17.0 cm
 20.4 in 6.8 in

Agilent G1947A APCI Source:

Weight: 1.7 kg Height: 23 cm
 3.75 lb 9.2 in
Depth: 13.0 cm Width: 18 cm
 5.1 in 7.1 in

Agilent G1948A API-ES Source:

Weight: 1.7 kg Height: 17 cm
 3.75 lb 6.8 in
Depth: 9.5 cm Width: 18.0 cm
 3.7 in 7.1 in

Agilent G1971A APPI Source:

Weight: 1.7 kg Height: 23 cm
 3.75 lb 9.2 in
Depth: 13.0 cm Width: 18.0 cm
 5.1 in 7.1 in

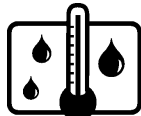
* The footprint dimensions represent the minimum dimensions of the supporting surface. This surface must also be relatively vibration free and capable of supporting at least 65 kg (143 lbs).

** Maximum cabinet dimensions are for an Agilent G1946A/B/C/D with an Agilent G1947A APCI or G1971A APPI source installed. At least 30 cm (1 ft) to the left of the cabinet and at least 55 cm (1.8 ft) above the cabinet must be added to these dimensions to provide adequate instrument access.

Tick Boxes

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Environmental Conditions



Temperature: 15 to 35 °C (59 to 95 °F)
at constant temperature (variations < 3 °C/hr).
Humidity: < 95% relative, non-condensing

Tick Boxes



Power



Americas & Japan: 200 to 220 VAC; 1100 VA max¹
Europe & Asia Pac: 220 to 264 VAC; 1500 VA max¹
G1971A APPI Source: 110 - 240 VAC; 15 VA max²
N₂ Generator: 90-110 VAC; 15 VA max³
108-132 VAC; 15 VA max³
207-253 VAC; 15 VA max³

All power: 50/60 Hz +/- 5%

¹Single outlet for LC/MSD. See LC/MSD Site Preparation Manual, G1946-90098 for power cord configurations.

²Single outlet for G1971A APPI Source power supply.

³Single outlet for LC/MS N₂ Generator w/ compressor



Heat Dissipation

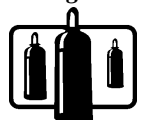


Output: 2000 Watts (6800 BTU / hour)¹

¹Approximately 600 Watts are removed with the source exhaust.



Nitrogen Gas Supply



Purity: 99.5% or better - Gas Cylinder
98.0% or better - N₂ gas generator or liquid N₂ Dewar.

Balance of impurity should consist of oxygen and/or argon. Gas must be hydrocarbon free (< 0.1 ppm).

Outlet Pressure: 80-100 psi. A 1/4" Swagelok outlet (male) fitting is required to connect the LC/MSD.

Volume: Up to 15 liters/min.



Laboratory Supply Requirements



Mobile Phases: Water, Methanol, Isopropanol, Acetonitrile¹

Purity: HPLC-grade or better

Buffers: Ammonium Formate²

Acids: Acetic or Formic Acid³

Purity: Ammonium formate, 97% or better

Acetic acid, 99.7% or better

Formic acid, 96% or better

¹Methanol/water required for G1946D installation.

Organic/water required for G1946A/B/C installation.

²Optional for G1946D installation.

³Required for G1946A/B/C/D installation.



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Exhaust Venting Requirements



Capacity: Up to 15 liters/min. total.

Connections: Separate 1/2" hose barbs required for rough pump and ion source (ES, APCI, or APPI).¹

¹A 20ft. length of 1/2 inch i.d. Tygon™ tubing is included for venting source exhaust (drain bottle) and rough pump. (Sufficient for two 10 foot lengths.)

Tick Boxes

Remote Diagnostics



Phone: One analog phone line is recommended to provide remote diagnostics capability for the LC/MSD. A second phone line is also strongly recommended for communication with the system operator.