

Site Preparation Checklist

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.



Maximum cabinet dimensions for 6410:**

Weight: 107.5 kg Height: 47 cm
 236.5 lb 18.5 in
 Depth: 66 cm Width: 111 cm
 26 in 43.5 in

Tick Boxes

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.

Maximum cabinet dimensions for 6460:

Weight: 115 kg Height: 48 cm
 255 lb 18.8 in
 Depth: 66 cm Width: 111 cm
 26 in 43.5 in

E2M28 Mechanical Roughing Pump:

Weight: 40 kg Height: 28 cm
 88 lb 11 in
 Depth: 58 cm Width: 18 cm
 23 in 7.1 in
 E2M28 (208V) 200 – 210 VAC, 50/60 Hz
 E2M28 (230V) 220 – 240 VAC, 50/60 Hz

Important Information

This checklist is designed to be used in conjunction with the Agilent 6410 Triple Quad LC/MS System Site Preparation Guide. 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.

Agilent G1947B 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 G1948B 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 G1978B Multimode Source:

Weight: 2.29 kg Height: 17 cm
 5.05 lb 6.8 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 114 kg (250 lbs).

** Maximum cabinet dimensions are for an Agilent 6410 with an Agilent G1947B APCI, or G1978B Multimode 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. In addition, the Agilent 6410 has a 183 cm (6 ft) metal hose connected from the back of the instrument to its mechanical roughing pump.

Procedure Checklist

Agilent 6400 Series Triple Quad

Mainframe footprint:*

Depth: 66 cm
 26 in
 Width: 111 cm
 43.5 in 43.5 in

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Power



Americas & Japan: 200 to 210 VAC; 2500 VA max for 6410; 2850 VA max for 6460, 50/60 Hz, 15 A circuit¹
Europe & Asia Pacific: 220 to 240 VAC; 2500 VA max for 6410; 2850 VA max for 6460, 50/60 Hz, 15 A circuit¹

Tick Boxes



¹Single outlet for 6400 Series LC/MS.

Heat Dissipation

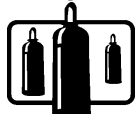


Output: 1100 Watts (3700 BTU / hour)¹

¹Approximately 600 Watts are removed with the source exhaust.



Nitrogen Gas Supply



The 6400 Series LC/MS will require two sources of nitrogen—one for the Nebulizer and Drying Gas, and the other for the Collision Cell.

Nebulizer and Drying Gas:

Purity: 99.5% or better - Gas cylinder
 95.0% 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/MS.

Volume: Up to 18 liters/min for 6410
 Up to 30 liters/min for 6460



Collision Cell:

Purity: 99.999% or better
Outlet Pressure: 10-30 psi. A 1/8" Swagelok outlet (male) fitting is required to connect to the LC/MS.
Volume: Up to 2 sccm (2 cc (ml) per min at atmospheric pressure)



Laboratory Supply Requirements

Mobile Phases: Water, Methanol, Isopropanol, Acetonitrile¹

Purity: HPLC-grade or better
Buffers: Ammonium Formate, Formic Acid
Acids: Acetic or Formic Acid
Purity: Ammonium formate, 97% or better
 Acetic acid, 99.7% or better
 Formic acid, 96% or better



¹Methanol/water required for G6410A 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 MM).

¹A 7.6m (20 ft.) length of 1/2 inch i.d. Tygon™ tubing is included for venting source exhaust (drain bottle) and rough pump. (Sufficient for two 3.8 m (10 ft) lengths.)

Tick Boxes

Environmental Requirements



Temperature: 15 to 35 °C (59 to 95 °F) at constant temperature (variations < +/- 3 °C from calibration temperature)

Humidity: 20 to 85 %