

## 6200 Series LCMS TOF – Site Preparation Checklist

Thank you for purchasing an Agilent **instrument**. 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, consumables, space and utility requirements for your equipment for your site.

### Customer Responsibilities

**Make sure your site meets the following prior specifications before the installation date. For details, see specific sections within this checklist, including:**

- The necessary laboratory or bench space is available
- The environmental conditions for the lab as well as laboratory gases and plumbing
- The power requirements related to the product (e.g., number & location of electrical outlets)
- The required operating supplies necessary for the product and installation
- Please consult Other Requirements section below for other product-specific information.
- For more details, please consult the product-specific Site Preparation or Pre-Installation manual.

**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.**

- This checklist cover the following models: G1969A, G6210A, G6220A, G6224A, and G6230A LCMS TOF.

### Important Customer Information

1. 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 it's partners reserve the right to reschedule the installation dependent upon the readiness of your laboratory.
2. Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-arrange any services that have been purchased.
3. 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.

**6200 Series LCMS TOF -  
Site Preparation Checklist**


## Dimensions and Weight

Identify the laboratory bench space before your system arrives based on the table below.

Pay special attention to the **total height and total weight requirements for all system components you have ordered and avoid bench space with overhanging shelves**. Also pay special attention to the total weight of the modules you have ordered to ensure your laboratory bench can support this weight.

### Special Notes

1. G6210A, G6220A, G6224A, G6224A dimensions include the height of the flight tube. At least 30 cm (1 ft) to the left of the LC/MSD TOF is required for installing & removing ion sources.
2. The supporting surface must be relatively vibration free and capable of supporting at least 136 kg (300 lbs). Additional space, weight, and power considerations must also be made for the LC system and PC data system.
3. Values in parenthesis include height of the oil mist filter accessory and exhaust tubing.

Instrument Description	Weight		Height		Depth		Width	
	Kg	lbs	cm	in	cm	in	cm	in
G6224A\G6230A	114.5	252	135.0	53.25	73	28.74	73	28.74
G1969A\G6210A\G6220A	132	290	135.0	53.25	63.5	25.25	89.5	35.25
E2M28 Mechanical Rough Pump	40	88	28	11	58	23	18	7.1
Jet Stream	2.29	5.05	17	6.8	13.0	5.1	18.0	7.1
G3251B Dual Spray ESI Source	1.7	3.75	17	6.8	9.5	3.7	18.0	7.1
G1947B TOF APCI Source	1.7	3.75	23	9.2	13.0	5.1	18	7.1
G1948B API-ES Source	1.7	3.75	17	6.8	9.5	3.7	18	7.1
G1978B Multimode Source	2.29	5.05	17	6.8	13.0	5.1	18	7.1

**6200 Series LCMS TOF –  
Site Preparation Checklist**


## Environmental Conditions

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

### Special Notes

1. Performance can be affected by sources of heat & cold e.g. direct sunlight, heating/cooling from air conditioning outlets, drafts and/or vibrations.
2. The site's ambient temperature conditions must be stable for optimum performance. Variation should be  $\leq 3^{\circ}\text{C}$ .
3. Exhaust venting required. Separate 1/2" hose barbs required for rough pump and ion source (ES, APCI, etc). A 6 meter (20ft.) length of 1/2 inch i.d. PVC/vinyl tubing is included for venting source exhaust (drain bottle) and rough pump. (Sufficient for two, 10-foot lengths.)

Instrument Description	Operating temp range °C (F)	Operating humidity range (%)	Heat Dissipation (BTU)
LCMS TOF	15 to 35 °C (59 to 95 °F)	< 90% relative, non-condensing	6800 BTU / hour ❶

❶ Approximately 600 Watts (2047 BTU/hr) are removed with the source exhaust



## Power Consumption

### Special Notes

1. If a computer system is supplied with your instrument, be sure to account for those electrical outlets.
2. One 15A outlet needed. Power cord is 2.5 meters (8 feet) long. See Site Preparation Manual for additional details.
3. All power: 50/60 Hz +/- 5%

Instrument Description	Line Voltage & Frequency (V, Hz)	Maximum Power Consumption (VA)	Maximum Power Consumption (W)
G6210A, G6210A ,G6224A, G6230A US and Japan	200 VAC +10% to -5 %	15A, 1100 to 2200 VA ❶	
G6210A, G6210A ,G6224A, G6230A Europe	240 VAC +10% to -5 %	15A, 1100 to 2200 VA ❶	

❶ 50Hz Power: 1116 VA @ 216VAC; 2300 VA @ 264VAC

❶ 60Hz Power: 1100 VA @ 180VAC; 1190 VA @ 220VAC

**6200 Series LCMS TOF –  
Site Preparation Checklist****Required Operating Supplies by Customer****Special Notes**

1. For information on Agilent consumables, accessories and laboratory operating supplies, please visit <http://www.chem.agilent.com/en-US/Products/consumables/Pages/default.aspx>
2. Nitrogen gas supply 99.5% pure or better. Balance of impurity should consist of oxygen and/or argon. Gas must be hydrocarbon free (< 0.1 ppm). Outlet Pressure: 85-100 psi. A 1/4" Swagelok outlet (male) fitting is required to connect the LC/MSD TOF.
3. High purity solvents supplied for installation/checkout. HPLC-grade mobile phases & buffers required for routine operation. Recommended purities: Ammonium formate: 97% or better; Acetic acid, 99.7% or better; and Formic acid, 97% or better.

<b>Item Description (including dimensions etc)</b>	<b>Recommended Quantity</b>
99.5% or better - N2 Gas Cylinder	6224 volume requirement: Up to 18 liters/min.
95.0% or better - N2 gas generator or Liquid N2 Dewar.	6230 volume requirement: Up to 30 liters/min.
Mobile Phases: Water, Methanol, Isopropanol, Acetonitrile	
Buffers: Ammonium Formate	
Acids: Acetic or Formic Acid	

## 6200 Series LCMS TOF - Site Preparation Checklist



### Other Requirements

To enable remote diagnostics:

1. Phone: A LAN connection for the control PC is recommended to provide remote diagnostics capability for the LC/MSD TOF.
2. A second phone line is also strongly recommended for communication with the system operator.

### Important Customer Web Links

- For additional information about our solutions, please visit our web site at <http://www.chem.agilent.com/en-US/Pages/HomePage.aspx>
- Need to get information on your product?  
Literature Library - <http://www.agilent.com/chem/library>
- Need to know more?  
Customer Education - <http://www.agilent.com/chem/education>
- Need technical support, FAQs? - <http://www.agilent.com/chem/techsupp>
- Need supplies? - <http://www.agilent.com/chem/supplies>

Document part number: G2597-90020