

Agilent CrossLab Start Up Services

Agilent PAL3 Site Preparation Checklist (G7366A/B, G7367A/B, G7368A/B, G7370A/B)

Thank you for purchasing an instrument from **Agilent Technologies**. CrossLab Start Up is focused on helping customers shorten the time it takes to start realizing the full value of their instrument investment.

Correct site preparation is the key to 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 system set up in your lab.

Introduction

Customer Responsibilities

Ensure that your site meets the following specifications before the installation date. For details, see specific sections within this checklist, including:

- The necessary laboratory or bench space is available.
- The required **environmental conditions for the lab**, as well as laboratory gas tubing.
- The **power requirements** related to the product (e.g., **number & location** of electrical outlets).
- The **required operating supplies** are necessary for the product and installation.
- While Agilent delivers **Installation and Introduction** services, instrument users should be present throughout these services; otherwise, they will miss important operational, maintenance, and safety information.
- Please consult the **Special Requirements and Other Considerations** section below for other product-specific information.
- For more details, please consult the product-specific site preparation or pre-installation manual.

Customer Information

- If you have questions or problems in providing anything described as part of *Customer Responsibilities* below, 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 depending on the readiness of your laboratory.
- Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to reschedule any services that have been purchased.
- 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.
- Please refer to the other peripheral products (i.e., sampling devices, etc.) for site preparation requirements.

Important Web Links

- To access Agilent training and education, visit <http://www.agilent.com/chem/training> to learn about training options, which include online, classroom, and onsite delivery. A training specialist can work directly with you to help determine your best options.
- To access the **Agilent Resource Center** web page, visit <https://www.agilent.com/en-us/agilentresources>. The following information topics are available:
 - Sample Prep and Containment, Chemical Standards, Analysis, Service and Support, and Application Workflows
- The **Agilent Community** is an excellent place to get answers, collaborate with others about applications and Agilent products, and find in-depth documents and videos relevant to Agilent technologies. Visit <https://community.agilent.com/welcome>
- Videos about specific preparation requirements for your relevant instruments can be found by searching the Agilent YouTube channel at <https://www.youtube.com/user/agilent>
- Need to place a service call? [Flexible Repair Options | Agilent](#)
- Need PAL3 Syringes? [CTC Smart Autosampler Syringes | Agilent](#)



Site Preparation



Dimensions and Weight

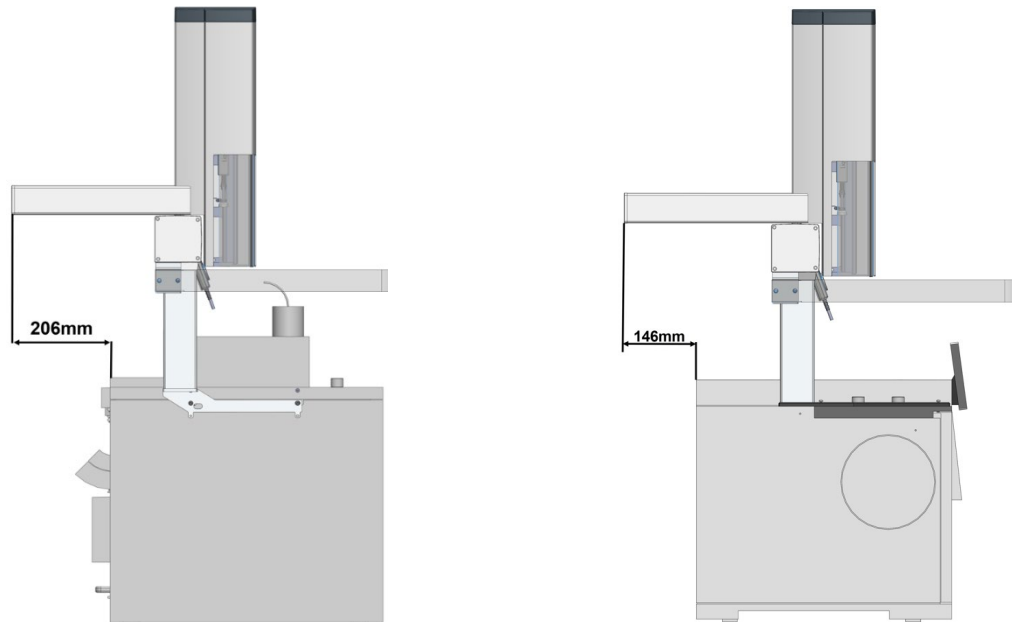
Based on the table below, identify the laboratory bench space before your system arrives. Pay special attention to the total height and total weight requirements for all system components you have ordered and avoid bench space with overhanging shelves. Also, pay special attention to the total weight of the modules you have ordered to ensure your laboratory bench can support this weight.

Special notes

The following table provides dimensions and weight requirements. Instrument Description	Weight		Height		Depth		Width	
	Kg	lbs.	cm	in	cm	in	cm	in
G7370A/B (RTC 120)	15.3 kg	33.7 lbs	118 mm	46 in	503 mm	19.8 in	1205 mm	47.5 in
G7368A/B (RSI 120)	13.8 kg	30.3 lbs	119 mm	47 in	503 mm	19.8 in	1205 mm	47.5 in
G7367B (RSI 85)	11.8 kg	25.9 lbs	119 mm	47 in	503 mm	19.8 in	850 mm	33.5 in
G7366A/B (LSI 85)	11.7 kg	25.8 lbs	119 mm	47 in	503 mm	19.8 in	850 mm	33.5 in

Equipment Positioning on the Bench

- Ensure sufficient clearance around the autosampler.
- Rail can be positioned along its length (to the left or right) for optimal spatial and collision free performance.



The images above illustrate the required space behind the PAL3. In this example, for an Intuvo 9000 system, a clearance of 206 mm (8.12 inch) is necessary for unobstructed Y-axis movement. For an 88XX GC, 146mm (~5.75 inch) of clearance is required shown above. (Note: Not drawn to relative scale)

Environmental Conditions

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

Special notes

- Performance can be affected by sources of heat & cold, e.g., direct sunlight, heating/cooling from air conditioning outlets, drafts, and vibrations.
- The bench or supporting surface must be vibration-free.

- The following table may help you calculate the additional BTUs of heat dissipation from this new equipment. Maximums represent the heat given off when heated zones are set for maximum temperatures.

Instrument Description	Operating Temperature Range °C (F)	Operating Humidity Range %
G7370A/B (RTC 120)	4 to 40 °C (~39 to 104 °F)	< 95%, non-condensing
G7368A/B (RSI 120)	4 to 40 °C (~39 to 104 °F)	< 95%, non-condensing
G7367B (RSI 85)	4 to 40 °C (~39 to 104 °F)	< 95%, non-condensing
G7366A/B (LSI 85)	4 to 40 °C (~39 to 104 °F)	< 95%, non-condensing

Power Consumption

Special notes

- If a computer system is supplied with your instrument, be sure to account for those electrical outlets.

Power Outlets for Main Rails

Instrument Description	Input Line Voltage	Input Line Frequency	Input Power	Output Voltage	Output Current	Rated Power
G7370A/B (RTC 120)	Grounded AC, 100-240 V	50-60 Hz	3 A	36 VDC	5.55 A	200 W (max.)
G7368A/B (RSI 120)	Grounded AC, 100-240 V	50-60 Hz	3 A	36 VDC	5.55 A	200 W (max.)
G7367B (RSI 85)	Grounded AC, 100-240 V	50-60 Hz	3 A	36 VDC	5.55 A	200 W (max.)
G7366A/B (LSI 85)	Grounded AC, 100-240 V	50-60 Hz	3 A	36 VDC	5.55 A	200 W (max.)

Power Outlets Needed for Active Modules

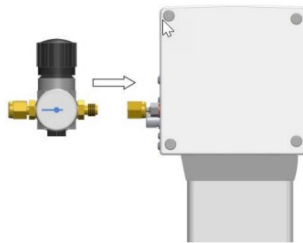
Module Description	Input Line Voltage	Input Line Frequency	Input Power	Output Voltage	Output Current	Rated Power
G7383A/G7384A (Cooled Stack)	Grounded AC, 100-240 V	50-60 Hz	3 A	36 VDC	5.55 A	200 W (max.)
G7369A (Tray Cooler)	Grounded AC, 100-240 V	50-60 Hz	3 A	36 VDC	5.55 A	200 W (max.)

Module Description	Input Line Voltage	Input Line Frequency	Input Power	Output Voltage	Output Current	Rated Power
G7364A/G7365A (Centrifuge)	Grounded AC, 100-240 V	50-60 Hz	3 A	36 VDC	5.55 A	200 W (max.)

Special Requirements and Other Considerations

Gas Plumbing and Management

- 1/8" copper tubing should be used for the compressed gases.
- Gases are supplied by tanks, internal distribution system, or gas generators. Tank supplies require two stage, pressure regulation. To connect tubing to the supply, it must have one 1/8-inch Swagelok® female connector for each gas. Make sure that your regulator has the appropriately sized adapter to end with a 1/8-inch Swagelok® female connector.
- The Agilent PAL3 sampler will need clean flush gas if using headspace (HS), Solid Phase Microextraction (SPME), SPME Arrow, In Tube Extractions (ITEX), and Dynamic Headspace techniques. Nitrogen (99.99% purity) is the preferred compressed gas, but Helium (He) can be used. Hydrogen (H₂) should NOT be used as flush gas. The desired gas pressure regulator from the tank should be set at ~50 psi and the pressure regulator that comes with the PAL3 (see below) should be set between 1.6–2.0 bar.



- If your order did NOT include parts to connect the gas supply to your Agilent PAL3, you must supply precleaned 1/8-inch copper tubing and a variety of 1/8-inch Swagelok® fittings to connect the gas supply(s).
- G7383A/G7384A (Cooled Stack) will require clean compressed nitrogen (N₂). Under severe environmental conditions (high humidity, high temperature), set the flow pressure to 1.6 bar or greater.

Service Engineer Review (Optional)

Service Engineer Comments

If the Service Engineer completed a review of the Site Preparation requirements with the customer, the Service Engineer should complete the following Comments section. Both the Service Engineer and the customer should complete the Site Verification section below.

If there are any specific points that should be noted as part of performing the site preparation review or other items of interest for the customer, please write in this box.

Site Preparation Verification

Service Request Number:

Date of Review:

Service Engineer Name:

Customer Name:

Service Engineer Signature:

Customer Signature:

Total number of pages in this document: