Agilent CrossLab
From Insight to Outcome

Agilent CrossLab Start Up Services

PAL3 RTC 120 LC Autosampler
Site Preparation Checklist

Thank you for purchasing an instrument distributed by **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 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 system set up in your lab.

Revision: A.00, Issued: 20-Jan-2025
Document Number: D0113215

Agilent

Introduction

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 dependent upon the readiness of your laboratory.
- Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-schedule 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 (ie, samplers etc.) for site preparation requirements.

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 gases, tubing.
- The **power requirements** related to the product (e.g. **number & location** of electrical outlets).
- The **required operating supplies** necessary for the product and installation.
- While Agilent is delivering **Installation and Introduction** services, users of the instrument 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.

Revision: A.00, Issued: 20-Jan-2025
Document Number: D0113215

Important Customer Web Links

- To access Agilent training and education, visit https://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
  - Application Workflows
- Agilent offers a wide selection of chromatography syringes and replacement needles for many different sample matrices and phases, all designed specifically for use with Agilent instrumentation. For more help choosing the right **PAL3 Smart Autosampler Syringe** for your application. Visit https://www.agilent.com/en/product/syringes-needles/autosampler-syringes-needles.
- 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 instrument can be found by searching the **Agilent YouTube** channel at https://www.youtube.com/user/agilent.
- **Need to place a service call?**
  https://www.agilent.com/en/promotions/flexible-repair-options

Site Preparation

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

The following table provides dimensions and weight requirements.

This product is heavy. Please discuss lifting assistance with the service engineer prior to installation.

Instrument Description	Weight		Height		Width		Depth	
	kg	lbs	mm	in	mm	in	mm	in
G7370B (RTC 120)	18.79	41.42	770	30.8	1270	58.8	795	31.8

Equipment Positioning on the Bench

The PAL3 Series II LC Injection System has to be installed on free bench space next to the Agilent Infinity Series LC stack. To avoid excessive delay volumes from the pump to the injection valve and from the injection valve to the LC columns:

- Install the PAL3 Series II sampler as close as possible to the Agilent Infinity Series LC stack.
- Move the PAL injection valve on the x-rail to side, where the LC stack installed.
- When using a two-stack configuration the HTC PAL should place next to stack, which includes the Agilent Infinity Series LC pump and column compartment. Two 600 mm stainless steel capillaries (0.17mm ID) are delivered with the PAL3 Series II sampler. These should be used to connect the injection valve to pump outlet and LC column. The delivered injection valve requires VICI type fittings, which are usually compatible with Swagelok type fittings.

Figure 1: The image illustrates the required space next to the PAL3. Make sure there is sufficient space for unobstructed Y-axis movement of the PAL3. For an Infinity III System, a footprint Depth 436 mm (~17,2 inch)/ Width 396 mm (~15.6 inch) 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/or vibrations.
- The bench or supporting surface must be vibration free.

The following table helps to 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 %
G7370B (RTC 120)	4 to 40°C (39 to 104°F)	< 95%, non-condensing

Wash Solvent Requirements

On the bench another solvent cabinet for storing the wash solvent for the PAL3 sampler may be necessary.

Power Consumption

Special Notes

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

Table 1: Power Outlets for Main Rails

Instrument Description	Input Line Voltage	Frequency	Input Power	Output Voltage	Output Current	Rated Power (max.)
	[V AC]	[Hz]	[A]	[V DC]	[A]	[W]
G7370B (RTC 120)	100-240	50-60	3	36	5.55	200

Table 2: Power Outlets Needed for Active Modules

Instrument Description	Input Line Voltage	Frequency	Input Power	Output Voltage	Output Current	Rated Power (max.)
	[V AC]	[Hz]	[A]	[V DC]	[A]	[W]
G7383A/G7384A (Cooled Stack)	100-240	50-60	3	36	5.55	200
G7369A (Tray Cooler)	100-240	50-60	3	36	5.55	200
G7364A/G7365A (Centrifuge)	100-240	50-60	3	36	5.55	200

Use the correct power cord.

Required Operating Supplies by Customer for Installation

Item Description (including Dimensions etc.)	Vendor's Part Number (if applicable)	Recommended Quantity
Screw Cap Vial, 2 mL, amber glass, write-on spot, 100/Pack	5182-0716	1
Screw Cap, PTFE/silicone, 100/pk	5190-7024	1
Syringe Supplies (Syringes, plungers, plunger tips)	see selection in the consumer catalog	
Wash Station Supplies (tubing)	5063-6527/G4220-67000	1/1

Special notes

- For information on Agilent consumables, accessories, and laboratory operating supplies, please visit: https://www.agilent.com/en-us/products/lab-supplies

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.

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 Service Completion:
.....	.....
Service Engineer Name:	Customer Name:
.....	.....
Service Engineer Signature:	Total number of pages in this document:
.....	.....

Revision: A.00, Issued: 20-Jan-2025
Document Number: D0113215