

## Agilent CrossLab Start Up Services

# Agilent Cary 60 UV-Vis Spectrophotometer Site Preparation Checklist

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 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.

# 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 Cary 60 user guide.

## Important Customer Web Links

- To access **Agilent University**, visit <http://www.agilent.com/crosslab/university/> 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
- 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?** [Flexible Repair Options | Agilent](#)

## 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 workbench should be about 90 cm (36 in) high. Remember to provide space for the computer, monitor and printer.
- Allow at least two inches of space on both sides, and six inches at the rear of the system to permit free air circulation.
- Power cord and all other connections are located at the rear of the instrument. The Power switch is located on the front panel.
- The Cary 60 has been designed to withstand 10 kg, the approximate weight of a 17 inch LCD monitor.

The following table provides dimensions and weight requirements.

| Instrument Description | Weight |      | Height |    | Depth |    | Width |    |
|------------------------|--------|------|--------|----|-------|----|-------|----|
|                        | Kg     | lbs. | mm     | in | mm    | in | mm    | in |
| Cary 60 packed         | 23     | 51   | 350    | 14 | 710   | 28 | 595   | 24 |
| Cary 60 unpacked       | 18     | 40   | 196    | 8  | 567   | 23 | 477   | 19 |

## 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 site's ambient temperature conditions must be stable for optimum performance.
- For optimum analytical performance, it is recommended that the ambient temperature of the laboratory be between 20 and 25 °C, and be held constant to within  $\pm 2$  °C throughout the entire working day.

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<br>°C (F) | Operating Humidity Range<br>% | Heat Dissipation<br>(BTU) |
|--------------------------------------------------------|---------------------------------------|-------------------------------|---------------------------|
| Cary 60 Non-operating<br>(transit)                     | -40 to 70<br>(-40 to 158)             | <90%                          |                           |
| Cary 60 Operating within<br>performance specifications | 5 to 40<br>(41 to 104)                | 15 to 80%                     | 130 BTU/hr                |

## Power Consumption

### Special notes

- If a computer system is supplied with your instrument, be sure to account for those electrical outlets.
- If a computer system is supplied with your instrument, be sure to account for those electrical outlets.
- A separate power outlet receptacle should be provided for the Cary 60 system.
- Good electrical grounding is essential to avoid potentially serious shock hazards. A 3-wire outlet with ground connection must be provided for the Cary 60. Make certain that power outlets are earth-grounded at the grounding pin.
- All power supplies for the Cary 60 must be single-phase, AC voltage, three-wire system (active, neutral, earth) and should be terminated at an appropriate power outlet receptacle that is within reach of the power cord.
- Do not use extension cords or outlet adaptors.
- A standard 3.2 A/12 V plug pack is provided and is the only type of power supply to be used with this equipment.
- Use only power cords supplied by Agilent.

| Instrument Description | Line Voltage and Frequency<br>V, Hz | Maximum Power Consumption<br>VA | Maximum Power Consumption<br>W |
|------------------------|-------------------------------------|---------------------------------|--------------------------------|
| Cary 60                | 90-265 VAC @ 47-63Hz                | 60VA                            | 38W                            |

## Required Operating Supplies by Customer for Installation

### Special notes

- For information on Agilent consumables, accessories, and laboratory operating supplies, please visit: <https://www.agilent.com/en/product/molecular-spectroscopy/uv-vis-uv-vis-nir-spectroscopy/uv-vis-uv-vis-nir-supplies>
- A Microcell Holder is supplied as standard with the Cary 60.

| Item Description<br>(including Dimensions etc.) | Vendor's Part Number<br>(if applicable) | Recommended<br>Quantity |
|-------------------------------------------------|-----------------------------------------|-------------------------|
|                                                 |                                         |                         |
|                                                 |                                         |                         |
|                                                 |                                         |                         |

## Special Requirements and Other Considerations

Use of the Cary 60 system and accessories may involve materials, solvents and solutions that are flammable, corrosive, toxic or otherwise hazardous.

Careless, improper, or unskilled use of such materials, solvents and solutions can create explosion hazards, fire hazards, toxicity and other hazards which can result in death, serious personal injury, and damage to equipment and property.

ALWAYS ensure that laboratory safety practices governing the use, handling and disposal of such materials are strictly observed. These safety practices should include the wearing of appropriate safety clothing and safety glasses.

The Cary 60 weighs 18 kg. To avoid injury to personnel or damage to equipment, always use two or more people when lifting or carrying the instrument. NEVER attempt to lift the instrument alone.

Unpacking the equipment is your responsibility. As the packages are opened, ensure you received everything you ordered. If there are any discrepancies, notify the supplier. If any items are found to be damaged, immediately notify the carrier and supplier. Any differences from the original order should be referred immediately to your Agilent sales office.

## 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:

Total number of pages in this document: