Agilent G5563A/G5562A Bravo Platform

Site Preparation Checklist

Thank you for purchasing an Agilent G5563A/G5562A Bravo Automated Liquid Handling Platform. 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.

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 environmental conditions for the site as well as laboratory gases, plumbing and extraction.
- The power requirements related to the product (e.g., number and location of electrical outlets).
- The required operating supplies necessary for the product and installation.
- 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.
- Be aware that all Bravo safety equipment will be installed unless Option #020 is specified on the sales order.

If Option #020 is specified, the Bravo Safety and Liability Waiver Agreement for Stand-alone Sales without Safety Light Curtains (part number D0006132) must be completed before the Bravo installation is completed. If an authorized customer representative does not sign this waiver and does not plan to implement their own Bravo safety protection, the Agilent Field Engineer may not install the Bravo Platform.
**WARNING** Changing or modifying the Bravo Platform safety equipment may prevent the safe operation of the Bravo Platform, invalidate its safety compliance, and lead to personal injury or property damage. Any customer who does not use the supplied safety equipment or who modifies the supplied safety equipment assumes full responsibility for providing an appropriate level of safety for its operators and for providing the applicable safety compliance marking and documentation.

For more details, refer to the *Bravo Platform Safety and Installation Guide* (part number G5563-90002B).  

☐ Please consult the Special Requirements section for other product-specific information.

**Customer Information**

1. If you have questions or problems in providing anything described as a Customer Responsibility, please contact your local Agilent or partner support service organization for assistance before the scheduled installation. In addition, Agilent and/or its partners reserve the right to reschedule the installation dependent upon the readiness of your site.

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 extra training, compliance services and consultation for user-specific applications may also be provided at the time of installation. Please discuss with your Agilent Sales representative before the installation is scheduled.

**Important Customer Web Links**


☐ An online VWorks Knowledge Base is posted at [https://www.velocity11.com/techdocs/openingpage.html](https://www.velocity11.com/techdocs/openingpage.html)

☐ Need technical support, FAQs, supplies? – visit our **Support Home page** at [http://www.agilent.com/search/support](http://www.agilent.com/search/support)

☐ Get answers. Share insights. Build connections: Join the **Agilent Community** at [https://community.agilent.com/welcome](https://community.agilent.com/welcome)
Site Preparation

Dimensions and Weight

Identify the laboratory bench space before your instrument arrives based on the following table. 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.

Special notes

1. In addition to the dimensions of the Bravo Platform, you should plan space for the Pump Module, if applicable, and the computer workstation.

2. See additional laboratory bench specifications under Other Requirements.

<table>
<thead>
<tr>
<th>Instrument Description</th>
<th>Weight Kg</th>
<th>Weight lbs</th>
<th>Height cm</th>
<th>Height in</th>
<th>Depth cm</th>
<th>Depth in</th>
<th>Width cm</th>
<th>Width in</th>
</tr>
</thead>
<tbody>
<tr>
<td>G5563A Bravo (Standard)</td>
<td>52.1</td>
<td>114.9</td>
<td>69.7</td>
<td>27.4</td>
<td>43.8</td>
<td>17.2</td>
<td>64.8</td>
<td>25.5</td>
</tr>
<tr>
<td>G5563A Bravo with Standard Light Curtain</td>
<td>60.7</td>
<td>133.5</td>
<td>69.7</td>
<td>27.4</td>
<td>52.5</td>
<td>20.7</td>
<td>66.5</td>
<td>26.2</td>
</tr>
<tr>
<td>G5563A Bravo with Wraparound Light Curtain</td>
<td>61.9</td>
<td>136</td>
<td>69.7</td>
<td>27.4</td>
<td>47.4</td>
<td>18.7</td>
<td>78.0</td>
<td>30.7</td>
</tr>
<tr>
<td>G5563A Bravo with Bravo Risers</td>
<td>—</td>
<td>—</td>
<td>84.3</td>
<td>33.2</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>G5562A Bravo (SRT)</td>
<td>51.5</td>
<td>113.5</td>
<td>61.7</td>
<td>24.3</td>
<td>43.8</td>
<td>17.2</td>
<td>64.8</td>
<td>25.5</td>
</tr>
<tr>
<td>G5562A Bravo with Standard Light Curtain</td>
<td>60.1</td>
<td>132.5</td>
<td>61.7</td>
<td>24.3</td>
<td>52.5</td>
<td>20.7</td>
<td>66.5</td>
<td>26.2</td>
</tr>
<tr>
<td>G5562A Bravo with Wraparound Light Curtain</td>
<td>61.3</td>
<td>135</td>
<td>61.7</td>
<td>24.3</td>
<td>47.4</td>
<td>18.7</td>
<td>78.0</td>
<td>30.7</td>
</tr>
<tr>
<td>G5562A with Bravo Risers</td>
<td>—</td>
<td>—</td>
<td>76.3</td>
<td>30</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>
Dimensions of G5563A Bravo (left) and G5562A SRT Bravo (right)

Dimensions of G5563A Bravo with Standard Light Curtain and Shields
Environmental Conditions

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

Special notes

1. Performance can be affected by sources of heat and cold, for example, direct sunlight, heating/cooling from air conditioning outlets, drafts, and/or vibrations. The laboratory’s ambient temperature conditions must be stable for optimum performance.

2. The Bravo Platform is intended to operate in a low-vibration environment. Excessive vibration may induce pipettor and robot errors.

3. The Bravo Platform is for indoor use only.

<table>
<thead>
<tr>
<th>Operating Temperature Range °C (F)</th>
<th>Operating Humidity Range (%)</th>
<th>Heat Dissipation (BTU)</th>
<th>Pollution Degree</th>
<th>Installation Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 to 40 °C</td>
<td>10 % to 90%</td>
<td>682.4 BTU/hour (200 W)</td>
<td>2</td>
<td>II</td>
</tr>
</tbody>
</table>

Power Consumption

Special notes

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

<table>
<thead>
<tr>
<th>Instrument Description</th>
<th>Line Voltage and Frequency (V, Hz)</th>
<th>Maximum Power Consumption (VA)</th>
<th>Fuse (AC entry)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G5563A/G5562A Bravo Platform</td>
<td>100-240V &amp; 50/60 Hz</td>
<td>300</td>
<td>250 V, 6.3A, 5 x 20-mm, slow blow</td>
</tr>
</tbody>
</table>

Required Operating Supplies by Customer for Installation

<table>
<thead>
<tr>
<th>Item Description (including Dimensions etc.)</th>
<th>Vendor’s Part Number (if applicable)</th>
<th>Recommended Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipette tips, disposable</td>
<td>Agilent</td>
<td>varies</td>
</tr>
</tbody>
</table>


| Labware                                       | varies                              | varies                |


Note: Requirements may vary depending on experiment design.
Special Requirements

Laboratory Table Specifications

☐ The laboratory table must support the weight of the Bravo Platform without excessive shaking or movement. The table should be fixed in place, for example, castors that lock.

☐ The table must be level in the direction of the width and the depth of the platform. Using a traditional bubble level, the table should be leveled such that the bubble is centered between the two limit lines of the level.

☐ The table surface must have a thickness relative to the material that will prevent warping when the Bravo Platform and computer are set upon the table.

☐ The table surface must be attached to the table frame.

Computer Requirements

The computer requirements vary depending on the version and edition of the VWorks software.

☐ VWorks Plus and VWorks Standard 14.0 Computer Requirements:

Refer to the VWorks Software 14.0 Site Preparation Checklist.

☐ VWorks 13.1.x Computer Requirements:

• Microsoft Windows 10 64-bit operating system
• 2 GHz or faster 32-bit (x86) processor, multicore preferred
• 4 GB RAM
• 40 GB hard drive capacity with 10 GB free space
• 1280 x 1024 pixel screen resolution
• Microsoft Internet Explorer 11 with JavaScript enabled is required for using the locally installed VWorks knowledge base.
  
  Note: When using Internet Explorer to display the help, you might have to allow local files to run active content (scripts and ActiveX controls).

• Communications Interface: Dedicated 10BaseT or faster Ethernet card (two network cards if connecting to your local area network)