Agilent XF Pro Site Preparation Checklist

Agilent CrossLab Start Up services

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 to outline the supplies, space, and utility requirements for the system set up in your lab.
Introduction

Customer information

- If you have questions or problems associated with any specification described in the "Customer responsibilities" section, 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 any reason, please contact Agilent as soon as possible to reschedule any services that have been purchased.
- Other optional services, such as extra training, operational qualification, and consultation for user-specific applications may be ordered with the system but should be contracted separately.

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.
- The required environmental conditions for the lab, as well as laboratory gases and tubing.
- 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.
- 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 for other product-specific information.

Important customer Web links

- To access Agilent University and learn about training options, which include online, classroom, and onsite delivery, visit: http://www.agilent.com/crosslab/university/. A training specialist can work directly with you to help determine your best options.
- To access the Agilent Resource Center webpage, visit: https://www.agilent.com/en-us/agilentresources. The following 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. To find out more, visit: https://community.agilent.com/welcome.
- To find videos about specific preparation requirements for your instrument, search the Agilent YouTube channel at: https://www.youtube.com/user/agilent.
- To place a service call, visit: Flexible Repair Options | Agilent.
- For technical support for XF instruments, contact: cellanalysis.support@agilent.com.

Site preparation

Dimensions and weight

Use Table 1 to identify the necessary laboratory bench space before your system arrives. Pay special attention to the total height and weight requirements for all the system components you have ordered, and avoid bench spaces 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.

Table 1. Dimensions and weights of the Agilent Seahorse XF Pro instruments.

<table>
<thead>
<tr>
<th>Instrument Description</th>
<th>Weight (kg)</th>
<th>Height (cm)</th>
<th>Depth (cm)</th>
<th>Width (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Seahorse XF Pro Analyzer</td>
<td>15.00</td>
<td>58.50</td>
<td>30.00</td>
<td>15.00</td>
</tr>
<tr>
<td>Agilent Seahorse XF Pro Controller</td>
<td>11.00</td>
<td>38.10</td>
<td>15.00</td>
<td>13.00</td>
</tr>
</tbody>
</table>
Equipment positioning on the bench
- The rear of the XF Pro analyzer requires at least 6 inches of free space for cooling airflow and power cord routing.
- The right side of the analyzer requires at least 8 inches of clear space for consumable loading.

Environmental conditions
Operating your instrument within the recommended temperature range ensures optimum instrument performance and lifetime (see Tables 2 and 3).

Table 2. Heat dissipation from the instrument.

<table>
<thead>
<tr>
<th>Instrument Description</th>
<th>Heat Dissipation (BTU)</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Seahorse XF Pro Analyzer and Controller</td>
<td>1,706</td>
<td>If the analyzer is enclosed in a container, it must have an exhaust and temperature control to dissipate the heat generated by the instrument.</td>
</tr>
</tbody>
</table>

Table 3. Recommended temperature and humidity ranges.

<table>
<thead>
<tr>
<th>Instrument Description</th>
<th>Operating Temperature Range</th>
<th>Operating Humidity Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Seahorse XF Pro Analyzer and Controller</td>
<td>18 °C (64 °F) to 30 °C (86 °F)</td>
<td>&lt;80% for temperature up to 31 °C, decreasing linearly to 50% at 40 °C</td>
</tr>
</tbody>
</table>

Notes: Performance can be affected by sources of heat and cold, e.g., direct sunlight, air conditioning outlets, drafts, and vibrations.

Table 4 helps you calculate the additional British thermal units (BTUs) of heat dissipation from this new equipment.

Table 4. Power consumption of the instrument. Maximum values represent the heat emitted when heated zones are set to maximum temperatures.

<table>
<thead>
<tr>
<th>Instrument Description</th>
<th>Line Voltage and Frequency</th>
<th>Maximum Power Consumption (VA)</th>
<th>Maximum Power Consumption (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent Seahorse XF Pro Analyzer and Controller</td>
<td>90 VAC to 240 VAC 50 Hz to 60 Hz</td>
<td>800</td>
<td>800</td>
</tr>
</tbody>
</table>

Exhaust venting requirements
The instrument has a rear fan to cool internal electronics. If this is blocked, or the ambient environment temperature is raised, it could affect the operation of the instrument.

Power consumption
The instrument will need two wall sockets to provide power to the instrument: one for the analyzer power cord, and the other for the controller power cord.

Required operating supplies for installation
The required operating supplies provided by the customer are outlined in Table 5.

Note: The customer site will have rules on PPE requirements. Please communicate these rules to the visiting Agilent representative before the day of the visit.

Table 5. Required operating supplies for installation.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Vendor Part Number (if Applicable)</th>
<th>Recommended Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>NonCO₂ Incubator (Set to 37 °C)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Inverted Phase Microscope</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Multichannel Pipette (20 to 200 µL; Within Calibration Date)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Pipette Tips (200 µL)</td>
<td>1 box</td>
<td></td>
</tr>
<tr>
<td>Water Bath (Set to 37 °C)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Bottle Mixer</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Biosafety Cabinet</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Distilled Water (≤200 mL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol (70%)</td>
<td>&lt;200 mL</td>
<td></td>
</tr>
<tr>
<td>Biohazard Container for Liquid Waste</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Trash Barrel for Nonhazardous Waste</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Special requirements and other considerations
- Waste liquid and gas management: See the "Required operating supplies for installation" section.
- Tools: Your Agilent instrument does not come with any hand tools for installation and introduction.
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 this section. Both the service engineer and the customer should complete the "Site preparation verification" 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 review: 

Service engineer name: 
Customer name: 

Service engineer signature: 
Customer signature: 

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