

**RapidFire 365 System –  
Site Preparation Checklist**

Thank you for purchasing an Agilent **solution**. 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 for your site.

## Summary Chart

<b>Transportation and delivery (the RapidFire 365 system is [H] 170 cm x x [W] 155 cm and weight 475 kg)</b>		
Elevator dimensions (Crate)	76" (195 cm) [H]	40" [102]
Elevator maximum weight capacity	1300 kg	
Corridor(s) dimensions	32" (81 cm) [W]	67" (170 cm) [W]
Laboratory entrance	32" (81 cm) [W]	67" (170 cm) [W]
<b>Laboratory logistics</b>		
Space for and around RapidFire	recommended [D] 150 cm	recommended [W] 250 cm
Vacuum source (check one)	<input type="checkbox"/> house vacuum	<input type="checkbox"/> stand-alone pump
specifications	flow rate or target pressure	Agilent IDP3
inlet fitting size	for vacuum tubing of internal diameter 1/4"	
<b>Mass spectrometer (MS)</b>		
MS manufacturer and model	Agilent QQQ or QTOF	
MS computer operating system	<input type="checkbox"/> Windows 7 Pro	
MS data acquisition software	<input type="checkbox"/> Windows 7 Pro	
<b>Supplies and consumables</b>		
<input type="checkbox"/> Example 96- and 384-well plate	<input type="checkbox"/> Water (3L)	<input type="checkbox"/> Formic acid (5 mL)
<input type="checkbox"/> Pipettes and pipette tips	<input type="checkbox"/> Acetonitrile (2L)	<input type="checkbox"/> Trifluoroacetic acid (5 mL)

## Customer Responsibilities

**Make sure your site meets the following prior specifications before the installation date. For details, see specific sections within this checklist, including:**

- The necessary laboratory or bench space available
- The environmental conditions for the lab as well as laboratory gases and plumbing
- The power requirements related to the product (e.g. number & location of electrical outlets)
- The required operating supplies necessary for the product and its 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.**

## Important Customer Information

1. If you have questions or problems in providing anything described as a Customer Responsibilities above, 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.
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 additional training 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.



## 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

1. 8 x 8 feet (or 2.5 x 2.5 meters) of space is sufficient for the RapidFire system, mass spectrometer and computer controllers.
2. Agilent recommends the laboratory physical arrangement to be such as to minimize the distance between the left wall of the RapidFire platform and the source inlet of the mass spectrometer. This precaution indeed minimizes the length of the fluidic line connecting the two systems.
3. Access to the back of the RapidFire instrument (two feet) will be needed on a regular basis to empty waste containers.

Instrument Description	Weight		Height		Depth		Width	
	kg	lbs	cm	in	cm	in	cm	in
RapidFire system	475	1045	170	67	81	32	155	61

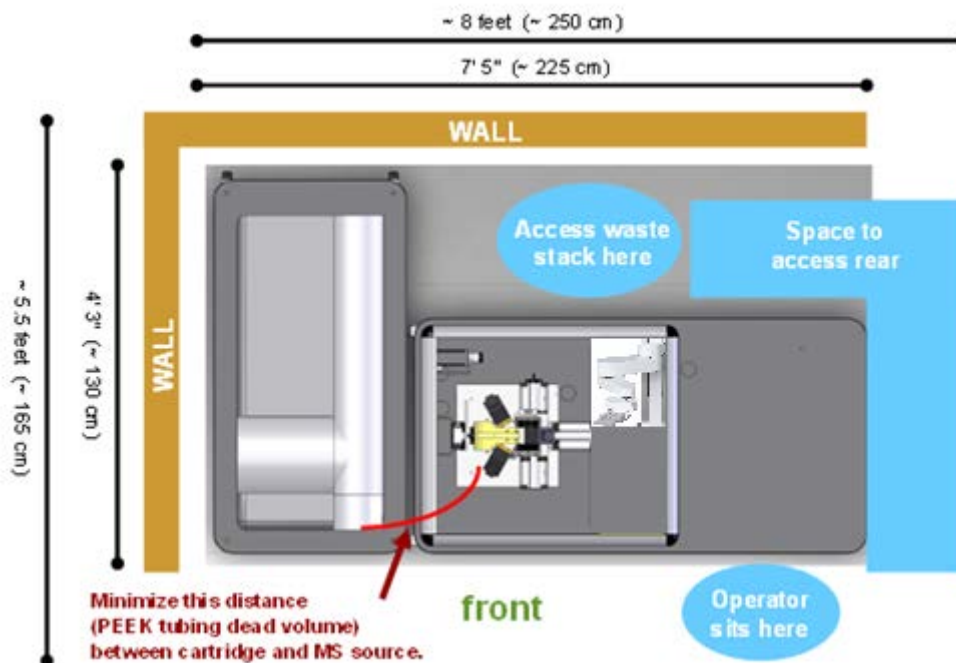
*(left)*



*(right)*

RapidFire 365 System –  
Site Preparation Checklist

**Typical RapidFire Setup** (view from above)



## Environmental Conditions

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

### Special Notes

1. Performance can be affected by sources of heat & cold e.g. direct sunlight, heating/cooling from air conditioning outlets, drafts and/or vibrations.
2. The site's ambient temperature conditions must be stable for optimum performance.
3. This system requires a source of vacuum with these specifications: 34 L/min of flow and -70 kPa pressure. The barbed-end fitting to the vacuum source will accommodate the ID 1/4" RapidFire vacuum-rated tubing.

Instrument Description	Operating temp range °C	Operating humidity range (%)
RapidFire system	4 °C to 35 °C	0 % to 95 %, non-condensing

RapidFire 365 System –  
Site Preparation Checklist



## Power Consumption

### Special Notes

1. If a mass spectrometer (MS) is supplied in conjunction with your RapidFire instrument, be sure to account for the MS electrical outlets, too.
2. Two power outlets are required for operating a RapidFire system

Instrument Description	Dedicated Outlet Required (V)	Line Frequency (Hz)	Maximum Power Consumption (W)
RapidFire system US	120 Vac	50/60 Hz	1500 W
RapidFire system EU	220 - 240 Vac	50/60 Hz	1500 W
RapidFire system JP	100 Vac	50/60 Hz	1500 W



## Computer Hardware Specifications for Workstations, Clients, and Servers

### Special Notes

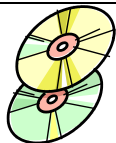
1. The RapidFire computer (supplied by Agilent) will comply with the following requirements:

Specification Description	Minimum
Operating system type(s), versions	Windows 7 Pro 64 bits SP1
Processor type and recommended speed	Intel Core i7 3770 / 3.4 GHz
.NET	.NET 3.5 SP1 and .NET 4.0
Language settings/compatibility	US English
Memory	8Gb
Mass storage	1 Gb RAID (2 x 1 Gb HDs 7200 rpm SATA-600)

RapidFire 365 System –  
Site Preparation Checklist

Specific drivers

4 ports RS-232; 4 USB; DVI display port  
2 PCI slots; 400 watt power supply  
2 Ethernet Controllers (Gigabit Ethernet)  
DVD ± RW (±R DL) / DVD-RAM-SATA



## Software Specifications for Workstations, Clients, and Servers

### Special Notes

1. Full integration between the RapidFire 365 front end and the MS (in order to enable sequence-based batch processing capability in concert with an Agilent or AB Sciex detector) requires one of the following software versions on the MS computer:

Specification Description		Minimum
MassHunter QQQ		B.06.00 build 6025 B.07.01 SP1 B.08.00 SP1
MassHunter QTOF		B.05.30 B.06.01 SP1
Analyst QQQ	(matching firmware on AB Sciex MS)	1.5.0 build 3385 or 3655 or 4019 1.5.1 build 4804 or 4810 or 5218 1.5.2 build 5704 1.6.0 build 3773 or 1.6.1 build 5341



## Networking Specifications

### Special Notes

1. The RapidFire computer and the mass spectrometer (MS) computer will communicate via a

RapidFire 365 System –  
Site Preparation Checklist

TCP/IP based dedicated network; that is isolated from the MS corporate network.



## Required Operating Supplies by Customer

### Special Notes

2. For information on Agilent consumables, accessories and laboratory operating supplies, please visit <http://www.chem.agilent.com/en-US/Products/consumables/Pages/default.aspx>
3. Please prepare the set of solvents (LCMS grade) listed in the table below to ensure successful installation.
4. For your application, you may also need these LCMS-grade, filtered solvents: methanol, acetone, triethylamine (TEA), ammonium acetate, and isopropyl alcohol.
5. You may also wish to use 96- and 384-well plates with barcodes on their south end (standard Code 128 ASCII, < 18 characters).

Item Description	Recommended Quantity
Water (H <sub>2</sub> O)	2 L
Acetonitrile (MeCN)	2 L
Water + 0.09% formic acid (FA) + 0.01% trifluoroacetic acid (TFA)	2 L
80% MeCN + 20% H <sub>2</sub> O + 0.09% FA + 0.01% TFA	2 L

### Important Customer Web Links

- For additional information about our solutions, please visit our web site at <http://www.chem.agilent.com/en-US/Pages/HomePage.aspx>
- Need to get information on your product?  
Literature Library - <http://www.agilent.com/chem/library>
- Need to know more?  
Customer Education – <http://www.agilent.com/chem/education>
- Need technical support, FAQs? – <http://www.agilent.com/chem/techsupp>
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