Agilent RapidFire 400 System

Site Preparation Checklist

Thank you for purchasing an Agilent RapidFire 400 System. 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 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.

- ❑ 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

☐   Videos about specific preparation requirements for your instrument can be found by searching the *Agilent YouTube* channel at https://www.youtube.com/user/agilent

☐   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.

☐   A useful *Agilent Resource Center* web page is available, which includes short videos on maintenance, quick lists of consumables for new instruments, and other valuable information. Check out the Resource Page here: https://www.agilent.com/en-us/agilentresources

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

☐   Get answers. Share insights. Build connections:
Join the *Agilent Community* at https://community.agilent.com/welcome

Site Preparation

Dimensions and Weight

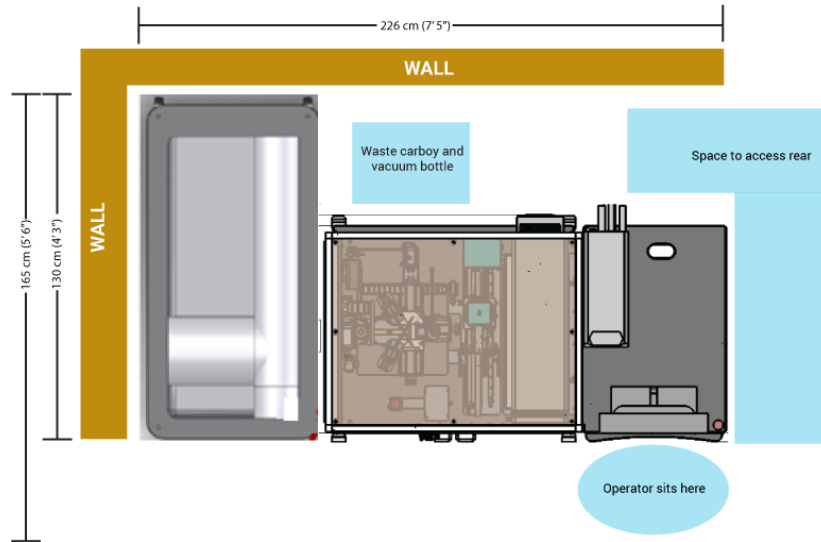Identify the laboratory space before your instrument arrives based on the following table.

Special notes

❑ 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.
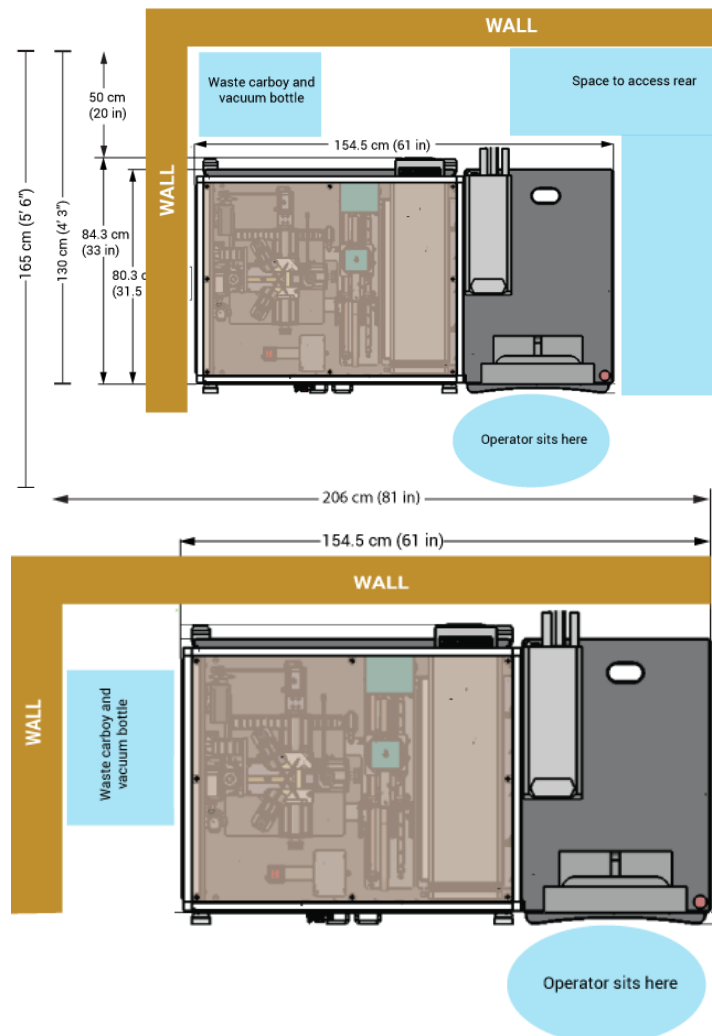
Instrument Description	Weight		Height		Depth		Width	
	Kg	lbs	cm	in	cm	in	cm	in
G9532A RapidFire 400 with Temperature Control	409	900	173.9	68	84.3	33	155	61
G9532A RapidFire 400 without Temperature Control	359.1	790	173.9	68	80	31.5	155	61

RapidFire 400 System setup, top view with TQ or QTOF MS

RapidFire 400 System setup, with Ultivo, top view

Environmental Conditions

Operating your instrument within the recommended temperature ranges, 4C to 35C, ensures optimum instrument performance and lifetime.

❑ Performance can be affected by sources of heat and cold, e.g., direct sunlight, heating/cooling from air conditioning outlets, drafts, and/or vibrations.

❑ The laboratory's ambient temperature conditions must be stable for optimum performance.

Instrument Description	Operating Temperature Range	Operating Humidity Range	Heat Dissipation
G9532A RapidFire 400 System	4 C to 35 C	0 % to 95 %, non-condensing	2559 BTU/hour max

❑ If a mass spectrometer (MS) is supplied in conjunction with your RapidFire instrument, be sure to account for the MS electrical outlets too.

❑ Two power outlets are required for operating the RapidFire System. These power connections must be easily accessible in case the power must be disconnected.

Instrument Description	Line Voltage and Frequency	Maximum Power Consumption
G9532A RapidFire 400 with temperature control	120-240 V~, 50/60	750 W
G9532A RapidFire 400 without temperature control	120-240 V~, 50/60	400 W

❑ Download the Essential Chromatography and Spectroscopy Supplies Catalogs for a complete overview about available supplies for your new and existing Agilent Instruments https://www.agilent.com/en-us/products/lab-supplies

❑ Please prepare the set of solvents (LCMS grade) listed in the table below to ensure successful installation.

❑ You may also wish to have 96- and 384-well plates with barcodes on their north end (standard Code 128 ASCII, < 18 characters).

Item Description	Recommended Quantity
Water	2L
Acetonitrile (MeCN)	2L
Water + 0.09% formic acid	2L
96- and/or 384-well plates with barcodes	10

Special Requirements

Software specifications for workstations, clients, and servers

Full integration between the RapidFire 400 front end and the MS (in order to enable sequence-based batch processing capability in concert with an Agilent detector) requires one of the following MS software versions:

Mass Spectrometer	Acquisition software
QQQ	10.1
QTOF	10.1
QQQ Ultivo	1.2

Vacuum specification

☐ If you are using the Agilent vacuum pump, a separate power outlet is required. Do not plug the vacuum pump into the RF 400 power strip.

☐ The system requires a source of vacuum with the following specifications:

The barbed end fitting to the vacuum source will accommodate the ID 1/4 in (6.35 mm) RapidFire vacuum-rated tubing.

Vacuum	Line voltage, frequency	Flow rate	Manufacturer	Tubing
House		34 L/min (1.2 cfm) at 70 kPa (10.15 psi) pressure		
Standalone pump[1]	100-230 V~,50/ 60 Hz	34 L/min (1.2 cfm) at 70 kPa (10.15 psi) pressure	Agilent	ID 1/4 in (6.35 mm)

1. The standalone pump requires a separate power outlet. Do not plug the pump into the RapidFire 400 power strip.

Additional Requirements

If an Agilent Ultivo Mass Spectrometer is to be installed as part of the RapidFire 400 System, make sure there is a separate power source for the Ultivo Mass Spectrometer and its associated pump as well as a receptacle for the vacuum exhaust.

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