



# **Agilent 6500 Series Q-TOF LC/MS**

## **Site Preparation Guide**



**Agilent**

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## **Space and Weight requirements**

**CAUTION** Do not put the rough pump on your laboratory bench with the 6500 Series Q-TOF LC/MS due to the vibration that the pump creates. This vibration can lead to a loss of mass accuracy and resolution.

**CAUTION** The supporting surface for the 6500 Series Q-TOF LC/MS system should be kept relatively vibration free.


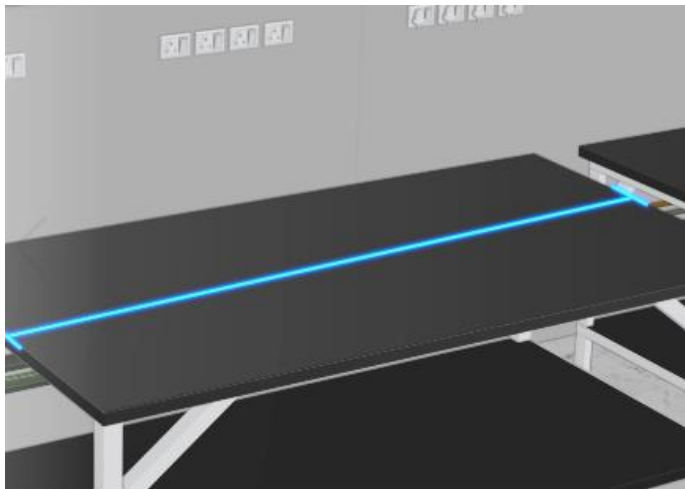
The 6500 Series Q-TOF LC/MS spray chamber must be connected to the spray chamber waste bottle which must be positioned below the 6500 Series Q-TOF instrument. The drain bottle is supplied with a 180 cm (72 in) PTFE hose. A hose extension kit (G1946-67002) is available to add 120 cm (48 in) to the drain hose length.

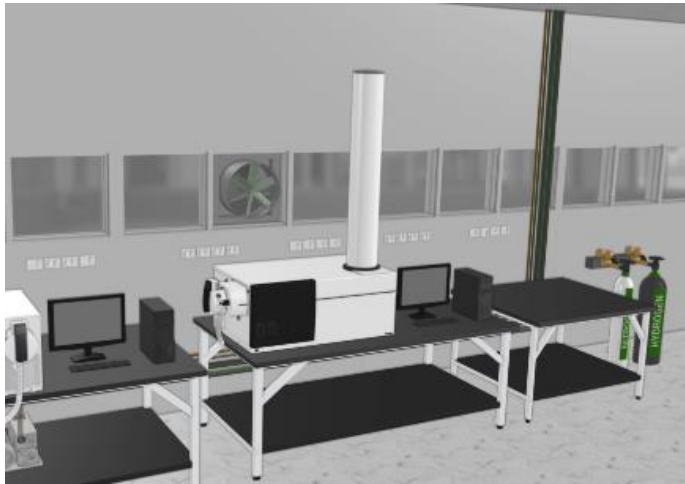
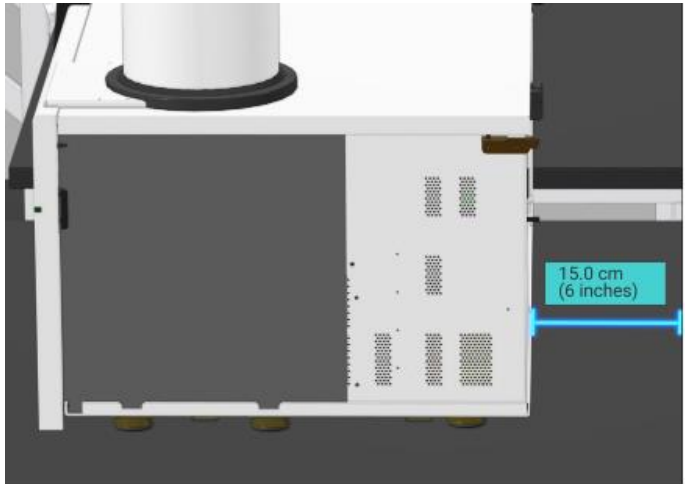
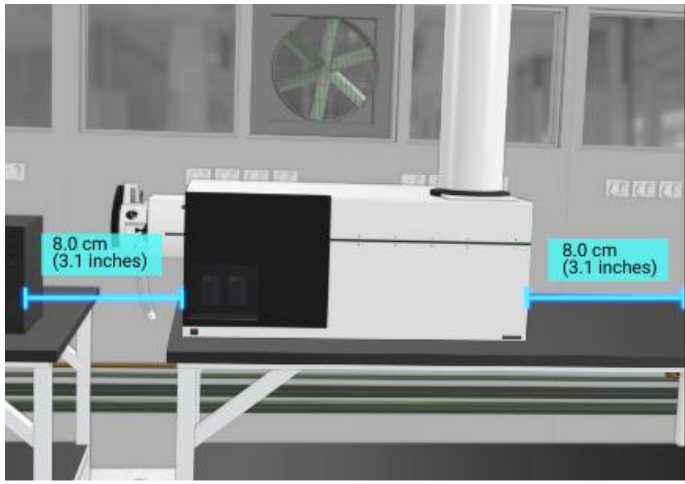
Refer following table for further information regarding totals weights for the 6500 Series Q-TOF LC/MS, rough pump, and various accessories.

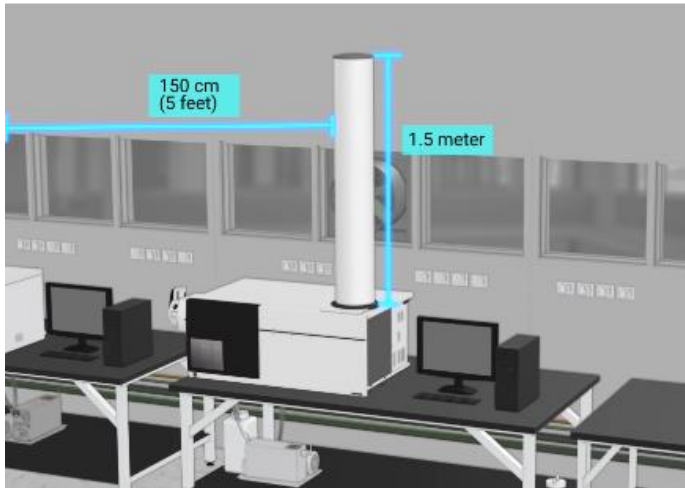
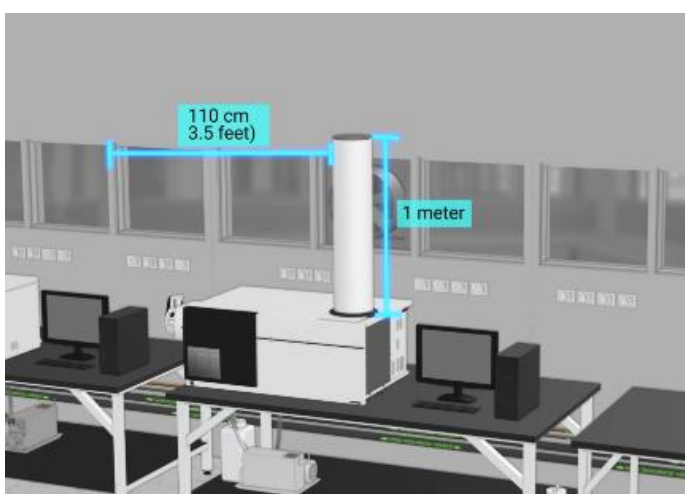

## Lab space requirements

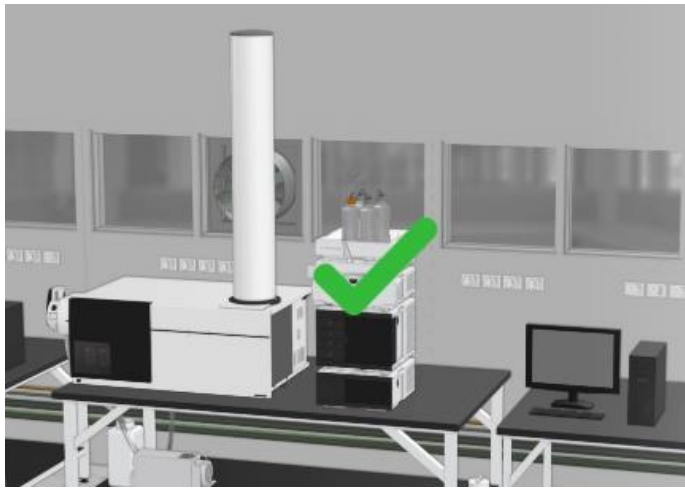
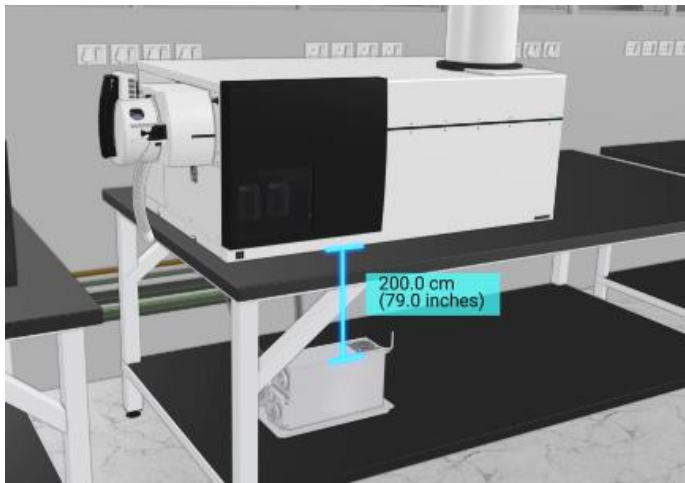
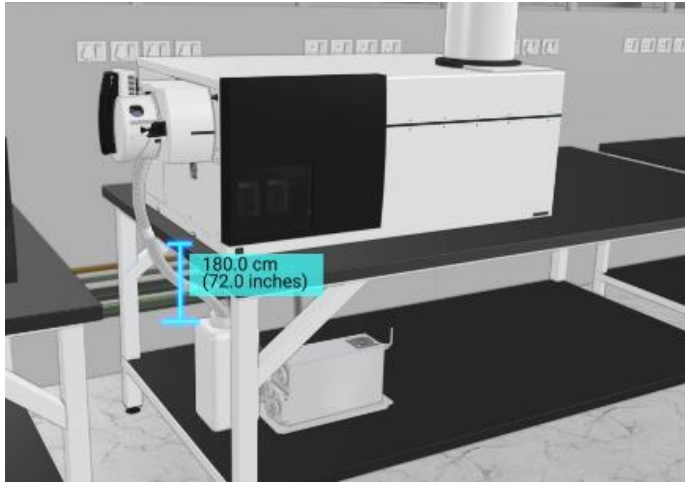
Instrument Description	Weight		Height		Depth		Width	
	kg	lbs	cm	in	cm	in	cm	in
6530 Accurate-Mass Q-TOF	169	372	129.5	51	76.2	30	121.9	48
6545 UHD Accurate-Mass Q-TOF	170	375	193	76	76.2	30	121.9	48
6546 LC/Q-TOF	170	375	193	76	76.2	30	121.9	48
6549 AdvanceBio Q-TOF	170	375	193	76	76.2	30	121.9	48
6550 iFunnel Q-TOF LC/MS	175	385	193	76	76.2	30	137.8	54.3
6560 Ion Mobility Q-TOF	278	613	186.7	73.5	76.2	30	254	100
Agilent TS800 Dry Pump (each) – Does not include foreline filter	32	71	39.1	15.4	56.7	22.3	30	11.8
Agilent MS40+ and exhaust tubing	33	73	22.8	9.2	41.8	16.5	29.7	11.7
G3251B Dual Spray ESI Source	1.7	3.8	17	6.8	9.5	3.7	18	7.1
G1947C APCI Source	1.8	4.1	23	9.2	13.0	5.1	18	7.1
G1978B Multimode Source	2.3	5.1	23	9.2	13.0	5.1	18	7.1
G3215A MassSpec Bench (included with 6560)	90	200	78.7	31	91.4	36	121	48
IM MassSpec Bench Extension (included with 6560)	68	150	78.7	31	91.4	36	121	48

1. The 6500 Series Q-TOF LC/MS requires a source of nitrogen gas. Typically, this is either a 160-liter dewar of liquid nitrogen or a nitrogen generator. Be sure to plan for the additional space and utilities your nitrogen source may require.
2. The 6500 Series Q-TOF LC/MS dimensions represent the maximum cabinet dimensions with a G3251B Dual-Spray ESI source or the Dual Agilent Jet Stream installed. At least 30 cm (1 ft) to the left (source end) of the instrument must be added to these dimensions to provide adequate instrument access. The supporting surface must be relatively vibration free and capable of supporting the combined weight of the Q-TOF system.
3. The various API (atmospheric pressure ionization) sources attach to the left side of the 6500 Series Q-TOF LC/MS. Their depths must be added to the width of the 6500 Series Q-TOF LC/MS. Heights for the interfaces include the height of the nebulizer.
4. The HPLC Chip Cube requires approximately 15 cm (6 in) more space on the left side of the instrument to allow for installation and removal of the Chip Cube.
5. Instruments with a 1.5 meter flight tube cannot be installed in labs where the lab ceiling is less than 2.5 m (8 ft) due to the length of the flight assembly.

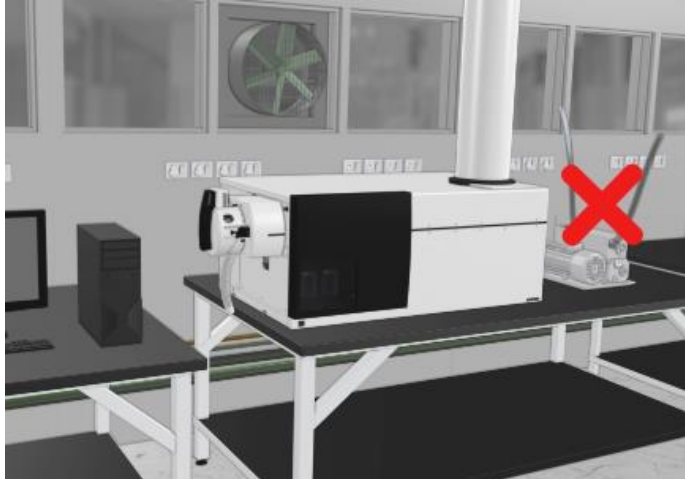
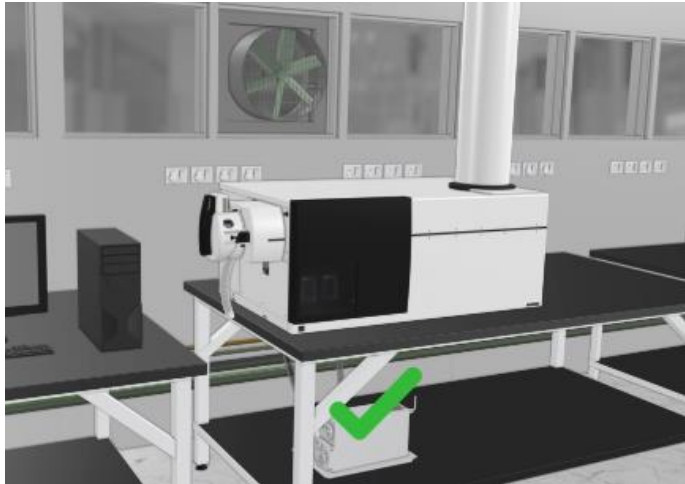
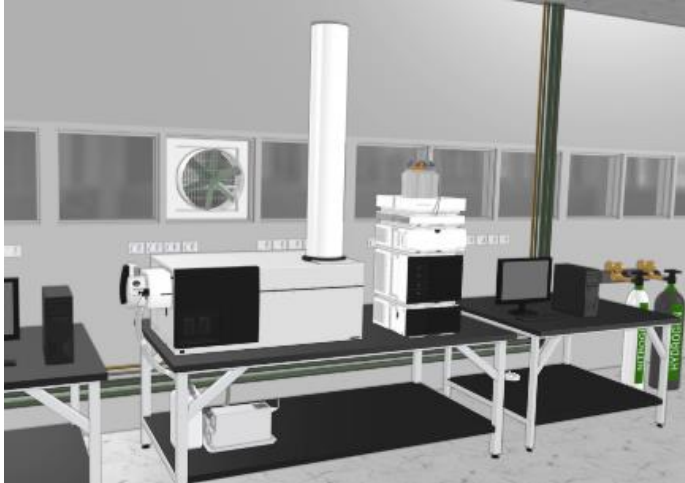
1	The installation site must have enough bench space for the 6500 Series Q-TOF LC/MS system, LC system, data system and accessories. In addition, there must be sufficient space around the instrumentation for air flow and maintenance access.	
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4	<p>At least 15 cm (approximately 6 inches) behind the 6500 Series Q-TOF LC/MS must be kept clear.</p>	
5	<p>At least 8.0 cm (3.1 inches) to the left and right of the instrument must be added to these dimensions to provide adequate instrument access.</p>	

6	<p><b>CAUTION</b> For instruments with a 1.5-meter flight tube, you must leave at least 150 cm (5 feet) of free space in front of the flight tube area to mount the flight tube. The flight tube is on a hinge and pivots towards the front of the instrument. This space is only needed during install or service.</p>	 <p>The diagram shows a 3D rendering of a laboratory instrument with a tall, white, cylindrical flight tube. A blue dimension line indicates a clearance of 150 cm (5 feet) in front of the instrument. Another blue dimension line indicates the height of the flight tube is 1.5 meters. The instrument is placed on a black table in a lab setting with other equipment and windows in the background.</p>
7	<p><b>CAUTION</b> For instruments with a 1.0-meter flight tube, you must leave at least 110 cm (3.5 feet) of free space in front of the flight tube area to mount the flight tube. The flight tube is on a hinge and pivots towards the front of the instrument. This space is only needed during install or service.</p>	 <p>The diagram shows a 3D rendering of a laboratory instrument with a tall, white, cylindrical flight tube. A blue dimension line indicates a clearance of 110 cm (3.5 feet) in front of the instrument. Another blue dimension line indicates the height of the flight tube is 1 meter. The instrument is placed on a black table in a lab setting with other equipment and windows in the background.</p>
8	<p><b>WARNING</b> Do not stack the LC modules on top of the 6500 Series Q-TOF LC/MS system. This arrangement is potentially unstable and dangerous.</p>	 <p>The diagram shows a 3D rendering of a laboratory instrument with a tall, white, cylindrical flight tube. A red 'X' is placed over the instrument, indicating that it is incorrect to stack LC modules on top of the instrument. The instrument is placed on a black table in a lab setting with other equipment and windows in the background.</p>

9	<p><b>WARNING</b> Do not stack the LC modules on top of the 6500 Series Q-TOF LC/MS system. This arrangement is potentially unstable and dangerous.</p>	
10	<p>The rough pump(s) must be located under the laboratory bench or on the floor. It must be within the 200 cm (79 in) length of the vacuum hose.</p>	
11	<p>The 6500 Series Q-TOF LC/MS spray chamber must be connected to the spray chamber waste bottle which must be positioned below the 6500 Series Q-TOF instrument. The drain bottle is supplied with a 180 cm (72 in) PTFE hose.</p>	



12	<p><b>CAUTION</b> Do not put the rough pump on your laboratory bench with the 6500 Series Q-TOF LC/MS due to the vibration that the pump creates. This vibration can lead to a loss of mass accuracy and resolution. The supporting surface for the 6500 Series Q-TOF LC/MS system should be kept relatively vibration free.</p>	
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Suggested Configuration



Suggested Configuration for iFunnel Q-TOF