

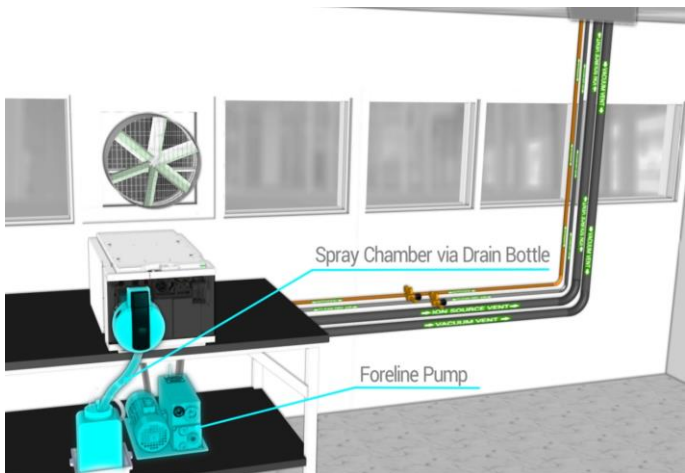
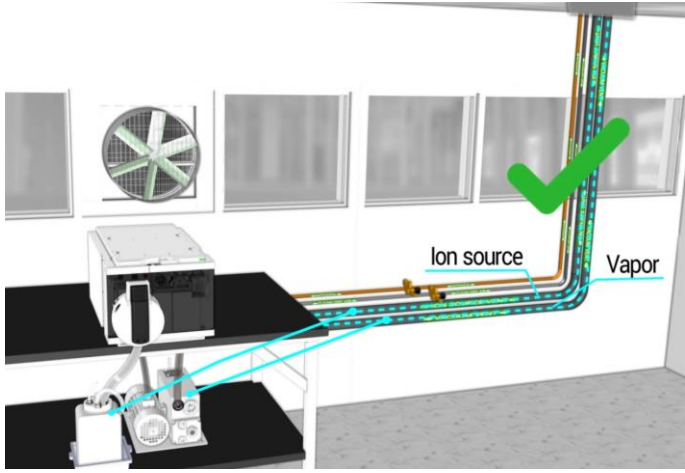
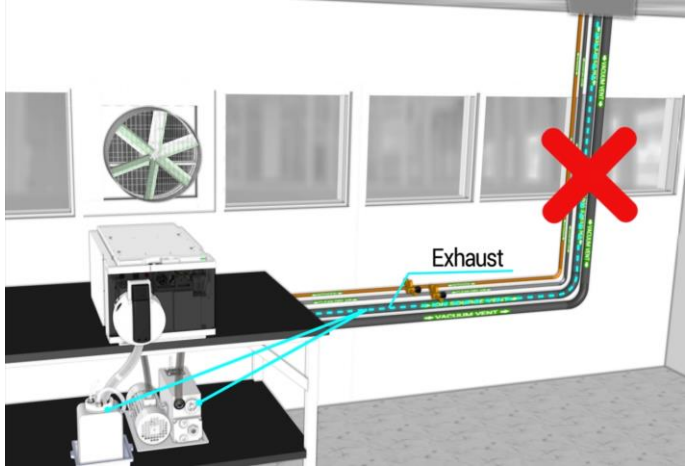


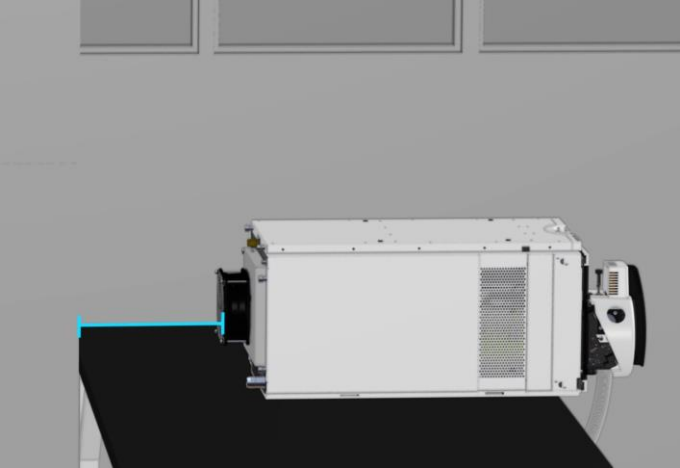
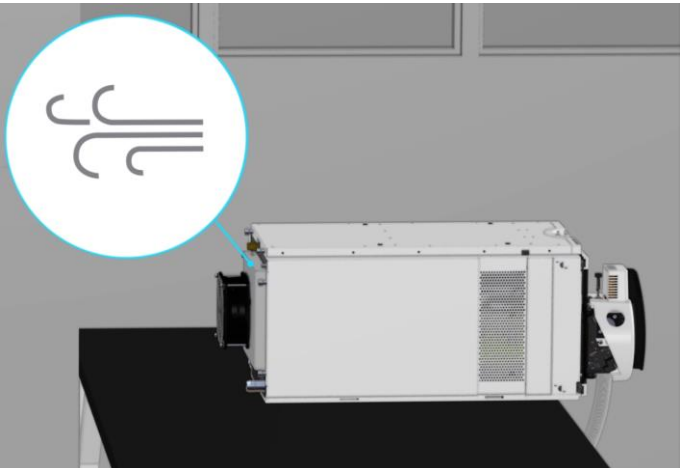
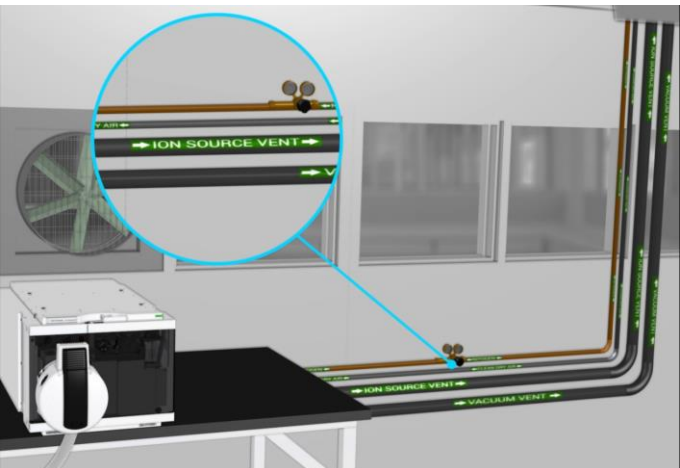
# Agilent InfinityLab Ultivo LC/TQ

## Site Preparation Guide

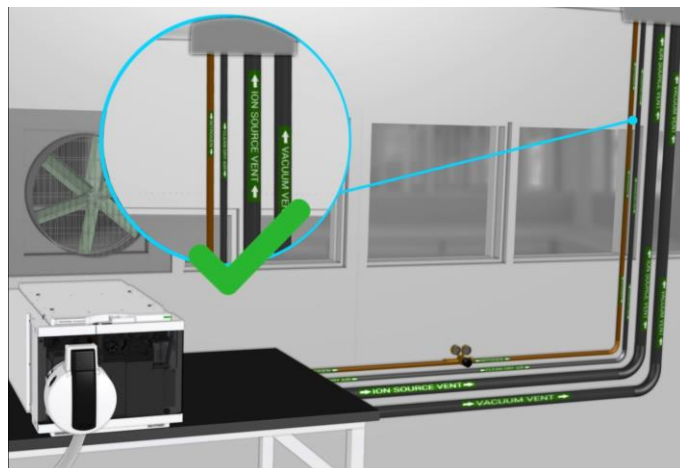


## **Exhaust venting**

1	<p>Two sources of exhaust on the Ultivo LC/TQ: the Spray Chamber via the Drain Bottle and the Foreline Pump.</p>	 <p>Spray Chamber via Drain Bottle</p> <p>Foreline Pump</p>
2	<p>There are two sources of exhaust vent on the agilent LC/TQ the spray chamber and foreline pump. The drain hose routes both nitrogen gas and vapor from the spray chamber to drain bottle. The vapor is made up of mobile phase and sample. The spray chamber and foreline pump vent up to 30 liters/minute of nitrogen gas and vapor.</p>	 <p>Ion source</p> <p>Vapor</p>
3	<p>Do not use a same hose for venting because the foreline pump exhaust contains traces of solvent, sample, and hydrocarbon pump fluid. The mist filter on the foreline pump traps the majority of the pump fluid vapor. It does not trap the traces of solvent and sample that may be present in the exhaust gases.</p>	 <p>Exhaust</p>

4	Air needs to flow away from the instrument.	
5	Air needs to flow away from the instrument.	
6	The spray chamber exhaust and the foreline pump exhaust are vented externally to the building and not recirculated by the environmental control system.	

- 7 The spray chamber exhaust and the foreline pump exhaust are vented externally to the building and not recirculated by the environmental control system.



**CAUTION** The spray chamber exhaust and foreline pump exhaust must be vented using separate lengths of exhaust tubing. These may be connected into a common exhaust manifold. This is to minimize the chances of foreline pump fluid vapor entering the spray chamber when drying gas is not flowing.

The combined exhaust flow from the spray chamber and foreline pump is up to 30 L/min of gas and vapor. Flow is continuous as long as the instrument is on. Both exhaust vents must be at or slightly below atmospheric pressure (negative pressure) with an exhaust flow of 30 L/min. If a negative pressure vent is not available, the length of the tubing from the foreline pump and the drain bottle to the vent should each not exceed 460 cm (15 ft).

**CAUTION** Positive pressure in the spray chamber exhaust tubing and drain bottle can affect instrument performance and may contribute to excessive background contaminant levels.