

Waters ACQUITY UPLC™ Column In-Line Filter Unit Installation Instructions

This document explains how to install the Waters ACQUITY UPLC™ column in-line filter unit in the ACQUITY UPLC system. The unit, which connects to the inlet side of the ACQUITY UPLC column, is shipped ready for use.

Caution: To prevent contamination, wear particle-free, powder-free, non-latex gloves or finger cots when installing the column in-line filter unit.

See also: *ACQUITY UPLC System Operator's Guide*.

Requirement: Stop any currently running mobile phase before installing the column in-line filter unit.

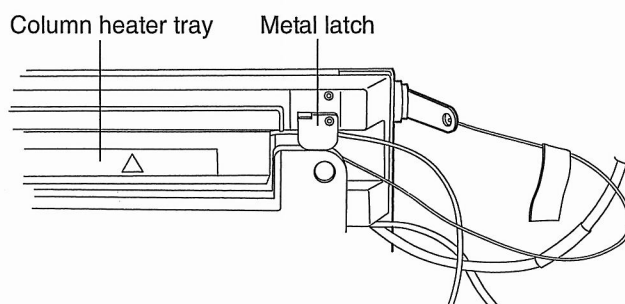
Required materials

- 1/4-inch open-end wrench
- 5/16-inch open-end wrench
- Particle-free, powder-free, non-latex gloves or finger cots

To install the column in-line filter unit:

1. Remove the column in-line filter unit from its plastic bag, and place the unit on a clean, flat surface.
2. Open the column heater door, lift the metal latch, and tilt the column heater tray downward.

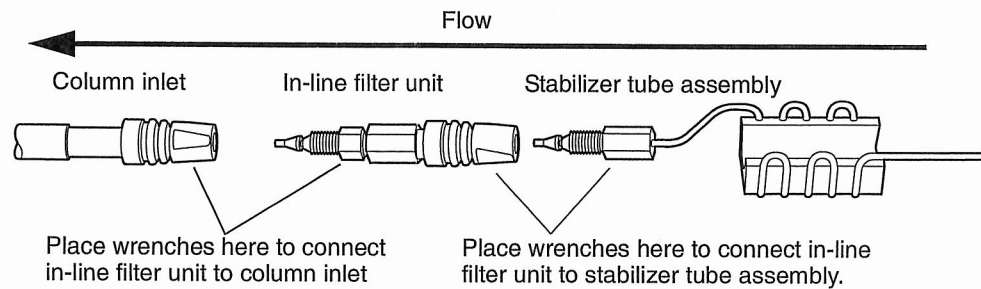
Opening the column heater tray



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3. Detach the column stabilizer tube assembly from the column inlet.
4. Pick up the column in-line filter unit, and insert the male end of the column stabilizer tube assembly into the filter unit's inlet side. Tighten the compression fitting using the 1/4-inch and 5/16-inch open-end wrenches.

Connecting the column in-line filter unit



5. Remove the O-ring from the male end of the column in-line filter unit.
6. Remove the plug from the column inlet.
7. Insert and push the male end of the column in-line filter unit into the column inlet until it can go no farther. Then tighten the hex nut using the 1/4-inch and 5/16-inch open-end wrenches.
8. Snap the plastic column clips onto the body of the column.
9. Return the assembled components (column, in-line filter unit, and stabilizer tube assembly) to the column tray. Push down the metal latch and tilt the tray to the closed position.

Tip: When using 100-mm UPLC columns, you might need to move the assembled components slightly rightward in the long column tray to accommodate the column in-line filter unit.

Replacing the Filter in the Column In-Line Filter Unit

If the column in-line filter unit is installed, follow the instructions below to replace the filter.

Caution: To prevent contamination, wear particle-free, powder-free, non-latex gloves or finger cots when replacing the filter in the column in-line filter unit.

Recommendation: Because compression fittings wear with repeated tightening and untightening, you should replace the column in-line filter unit after using the six filters that accompany the unit.

Requirement: Stop any currently running mobile phase before replacing the filter in the column in-line filter unit.

Required materials

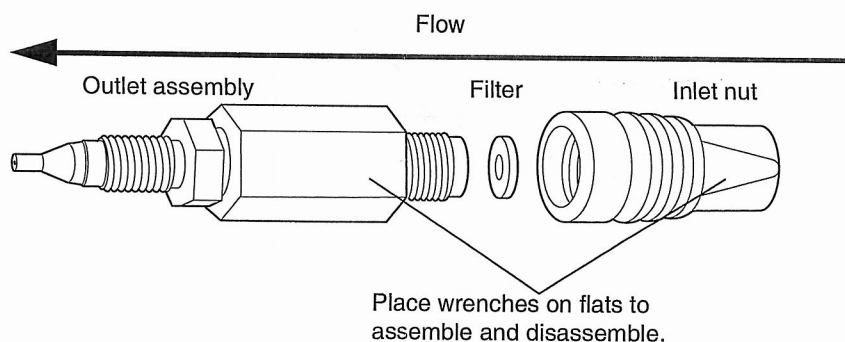
- 5/16-inch open-end wrench (2)
- Particle-free, powder-free, non-latex finger gloves or finger cots
- Replacement filter

To replace the filter in the column in-line filter unit:

1. Open the column heater door, lift the metal latch, and tilt the column heater tray downward. See the figure titled "Opening the column heater tray" on page 1.
2. Remove the column components (column, in-line filter unit, and stabilizer tubing assembly). See the figure titled "Connecting the column in-line filter unit" on page 2.
3. Detach the column stabilizer tubing assembly from the column in-line filter unit. Do not detach the column in-line filter unit from the column inlet.
4. Open the column in-line filter unit by placing two 5/16-inch open-end wrenches onto the flats.
5. Remove the column in-line filter unit inlet nut, which contains the used filter. Discard the filter; it cannot be reused.

6. Insert a new filter, and then reassemble the column in-line filter unit using the wrenches.

Assembling and disassembling the in-line filter unit



7. If you detached the column in-line filter unit from the column, reattach it. See the figure titled "Connecting the column in-line filter unit" on page 2.
8. Start the mobile phase and examine the assembled components for leaks. Tighten fittings as needed.
9. Return the assembled components to the column tray, push down the metal latch to secure the tubing, and tilt the tray to the closed position.