

Large Volume Splitless Kit for TRACE 1300 Series (PN 19050725) - Installation Guide

Introduction

The Large Volume Splitless injector is a setup of the standard splitless injector, where the introduction of large amount of liquid samples can be performed manually, or with the TriPlus RSH or AI/AS 1310 autosampler.

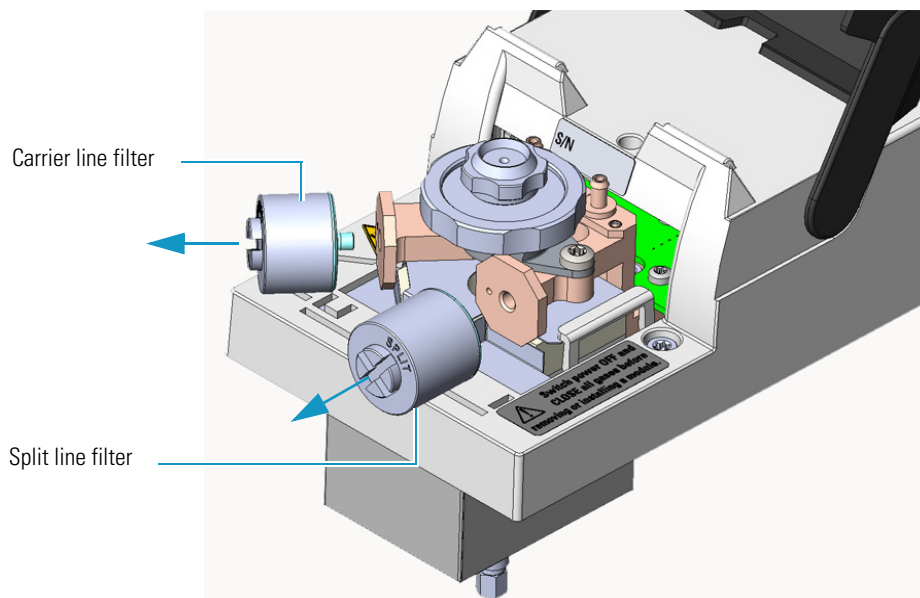
Large Volume-Splitless kit includes:

- Two dummy filters
- Two o-rings for dummy filters
- An deactivated connector (press-fit)
- An uncoated precolumn (5 m x 0.32 mm ID)
- A dedicated splitless liner (set of 5)
- LV-SL Assistant software

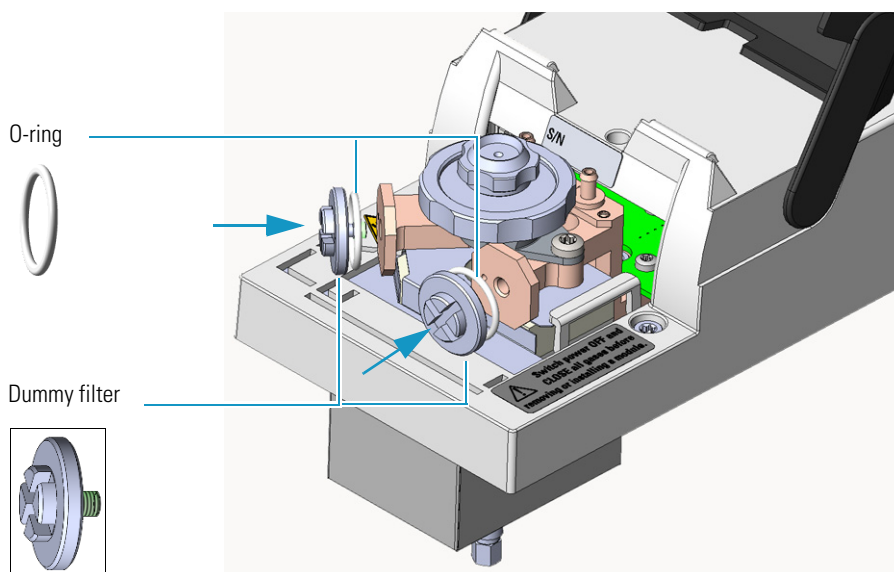
Installing the Large Volume Splitless Injector Kit

❖ To install the large volume splitless kit:

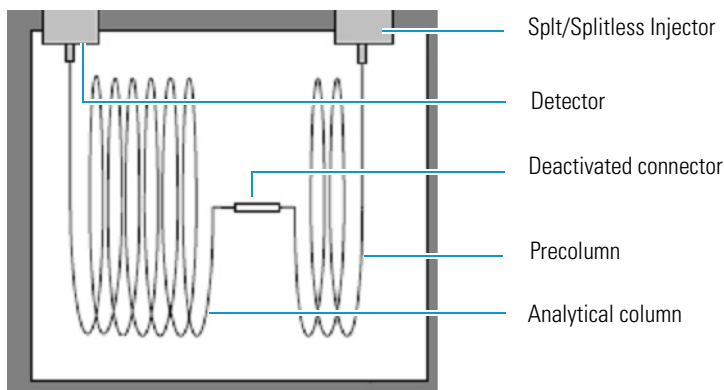
1. Put the GC in standby condition.
2. Cool the oven and injector to room temperature.
3. Turn the carrier gas off, and wait for the carrier pressure to go to zero.
4. Put the autosampler away if present.
5. Open the module flap cover
6. Replace the filters with the dummy filters.
 - a. Remove both the filters from their seats by turning them counter-clockwise.



- b. Install the dummy filters in their seats interposing the o-ring, then turn them clockwise.



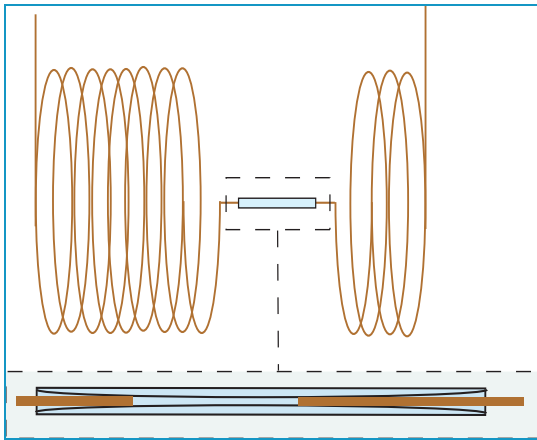
7. Replace the current liner installed into the Split/Splitless injector with the dedicated splitless liner.
8. Close the module flap cover.
9. Install the uncoated precolumn.
 - a. Open the oven door.
 - b. Disconnect the analytical column from the bottom of the injector.
 - c. Connect an end of the precolumn to the bottom of the injector by using the proper nut and ferrule. Position the precolumn so that its end extends a distance of 5 mm above the end of the ferrule.
10. Couple the precolumn to the analytical capillary column.



- a. Properly cut the fused silica column ends pay attention to achieve a clean square cut by using a ceramic scoring wafer or sapphire scribe.

CAUTION A poorly cut will produce an insufficient seal.

- b. insert the precolumn and analytical column ends into the relevant ports of the deactivated connector.



Note To create a good seal between all the parts, will be necessary to increase the oven temperature up to 200 °C.

11. Close the oven door.
12. If present, move the autosampler towards the module to restore the original alignment.
13. Turn the carrier gas on.
14. Set the injector, detector, and GC working conditions.