



Agilent Technologies

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Installation Note for Multidraw Upgrade Kit (G1313-68711) for The 1100 Autosamplers

In this note we describe how to install the multidraw upgrade kit into a 1100 Series autosampler.

General Information

The multidraw upgrade kit can be installed in any 1100 Series autosampler. With the kit you can add a maximum of 400ul or 1400ul to the injection volume (900ul analytical head) of your injector. The total injection volume is then 500ul or 1500ul for the standard autosampler with 100ul analytical head. If the optional 900ul analytical head is installed in the autosampler, you can add only the 1400ul injection volume capillary. This allows to expand the injection volume of your autosampler to a maximum of 1800ul (multi-injection mode only allows storage of integer multiples of the syringe volume in the seat capillary).

NOTE: The delay volume of your autosampler is extended when using the extended seat capillaries from the multidraw kit. When calculating the delay volume of the autosampler you have to double the volume of the extended capillaries (used in partial filling mode). The delay volume can be reduced by bypassing the autosampler once the sample has reached the head of the column.

When using the autosampler in multidraw mode, the syringe ejects an equivalent of the injected volume into waste. Therefore, it is recommended to install a separate waste tube (shipped with the start-up kit of your autosampler) to the waste outlet of the autosampler.

NOTE: Do not connect a waste outlet directly to the plastic waste tube (connected to port 4 of the injection valve). This can lead to siphoning effects, that will influence the precision of the autosampler.

Delivery Checklist

Make sure all parts and materials have been delivered with the upgrade kit. The Multidraw Upgrade Kit should contain the following:

Extended seat capillary, 400ul	G1313-87307
Extended seat capillary, 1400ul	G1313-87308
Union	0100-0900

Installing the Multidraw Upgrade Kit

1. Remove the front cover from the autosampler module by pressing the grey tabs on either side of the door.
2. Disconnect the seat capillary fitting from the injection valve at port 5.
3. Install the 400 or 1400ul seat extension loop (longer-length side) to the injection valve at port 5.
4. Install the union connecting the old seat capillary and the shorter-length side of the extension loop. Position the extension loop in the leak tray.
5. Connect the waste tube (shipped with the start up kit of your autosampler) to the waste outlet.
6. Install the front cover.

Autosampler Configuration

The configuration of your autosampler control module or ChemStation software is necessary to enable the multidraw mode.

ChemStation configuration

1. If not already displayed, pull down the **View** menu and select **Method & Run Control**.
2. Pull down the **Instrument** menu and select **More Injector** and **Configuration**. In **Injector Configuration**, change the seat capillary to the size of the installed extended seat capillary (400ul or 1400ul). Then choose **OK** and save this to the methods that will now be used.

Control Module Configuration

1. Press **System, Configure** and select the **Autosampler** from the pull down menu.
2. Select the volume for your installed extended seat capillary (400ul or 1400ul) from the **Seat Capillary** pull down menu and press **Done**.