

# **Multi-wash Infinity II Upgrade** Kit (G4757A) **Installation Note**

#### In this note we describe how to install the Multi-Wash Infinity II Upgrade Kit (G4757A) into an Agilent 1200 Infinity II Series multisampler.

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## **General Information**

The multi-wash upgrade kit is designed for low carry over and can be installed in any Agilent 1200 Infinity II Series multisampler.

With the multi-wash kit you can minimize carry over for critical samples. You can either reduce the carry over by washing the outer needle surface with the choice of three different wash solvents or you back flush the needle seat and the rotor seal with the appropriate solvents. This integrated feature reduces the carry over to less than 9 ppm.



 Solvents on cabinet
 to washport
 SSV/piezo pump

 to column
 Flush head

 Sample loop flex
 Metering device

 to needle seat
 Injection valve

Flow Connections to the Multisampler Multiwash

from pump

Figure 1 Valve in bypass, needle backflush (Multiwash)

NOTE : If the multisampler multi-wash option is installed you will lose the ability to do multi-draw.

## **Delivery Checklist**

Make sure all parts and materials have been delivered with the upgrade kit. Report missing or damaged parts to your local Agilent Technologies sales and service office.

p/n	Description	
G4267-68708	Drain Management Kit	1
G4267-60049	Flush Head 500ul	1
5067-5942	Flush Pump SST-Capillary 250x0.25	1
G4220-60007	Bottle Head Assembly	2
G4267-60008*	Hydraulic Multi Wash	1
G4267-60081	Tubing Kit Sampler Multi-wash	1



\*this is an internal partnumber and not orderable

### Installing the Multi-Wash Upgrade Kit

The installation of the upgrade kit is divided into three parts, removing of the standard hydraulic box, configure and installing the multi-wash hydraulic box, plus configure the new multi-wash feature in the CDS.

#### **Tools required**

1/4 inch wrench2.5 mm hex key4 mm hex key

### **Removing of the Hydraulic Box**

- 1. Go to the maintenance function (Agilent LabAdvisor or control module) and select Change Piston / Change Seal. Wait until the metering drive is in the rear position.
- 2. Switch off the instrument
- 3. Remove the capillaries, the tubing and the leak sensor which are connected to the hydraulic box.



4. Remove the injection valve and the analytical head from the standard hydraulic box. For further info check the service manual.



5. Lift the clip and pull out the standard hydraulic box out of the mainframe standard hydraulic box



### Installing of the Hydraulic Box

1. Check the revision of the drain management kit especially the washport tubing. If necessary upgrade the complete drain management kit. For further info check service manual.



old



2. Install the injection valve and the analytical head from the standard hydraulic box into the multiwash hydraulic box



2. Slide in the whole new multi-wash hydraulic unit.



3. Reinstall the capillaries, the tubing and the leak sensor which are connected to the hydraulic box.



Flow Connections to the Multisampler Multiwash

4. Prime the tubing with appropriate wash solvent and run Prime to Seat and prime to Wash port for at least 30 sec.



5. Perform a pressure test in LabAdvisor

### **Configuration of the Multi-wash in the CDS**

The configuration of your controller is not necessary to enable the multi-wash mode. In the GUI you will see the new multi-wash icon.



### **OpenLab Configuration C.01.06 and above**

- 1 Select Instrument in the menu.
- 2 Select Setup Instrument method.
- 3 Mark the execute multi-wash check box.

Injection							
Injection volume: 5.00 📩 µL							
Needle Wash	Needle Wash						
	Multi Wash		Ŧ				
L	Off						
Stoptime	Standard Wash						
	Multi Wash						
<ul> <li>As Pump/No Limit</li> </ul>		۲	Off				
1.00	; min	0		1.00 🗘	min		

4 Specify the duration of your solvent S1, S2 and S3 in the multi-wash table.

Step	Solvent	Time [s]	Seat Back Flush	Needle Wash	Comment	
1	Off					
2	S2	30		<b>V</b>	2-Propanol	IMPORTANT: It takes approximately 30 seconds to fully exchange one solv
3	S3	18	V		ACN	for another in the flush port. To flush a exchange the solvent in the seat, it tal 18 seconds. Additionally, it is strongly
Start Cond.	S1		V	<b>V</b>		recommended to use the Auto-clean function to flush the 1290 Infinity II Multisampler regularly with all installe
Start Cond.	51		V	M		

Note: For the OpenLab CDS LC driver A.02.11 or higher is required

## **Control Module (G4208A) Configuration**

1 Press Control and select Prime/Auto clean the tubing with appropriate wash solvent



2 Press Method and select the multi-wash and configure your wash method.

Setting	Value		Method - STDGRAD* all		1.4
MI	S : DEBAS00102	2			
Stoptime	OFF	Setting	Value		Edit
Posttime	OFF	Stoptime	OFF		Edit
njection Volume	1 ul	Injection Volume	1 µl		1
niection Mode	Standard	Injection Mode	Standard	1	Contro
		Overlap	Disabled		Contract
Overlap	Disabled	Sample Flush-Out	5 times		
Sample Flush-Out	5 times	Delay Vol. Reduction		_	Toggi
Delay Vol. Reduction	Disabled	Draw Speed Eject Speed	200 µl/min 200 µl/min	-	(1099)
Draw Speed	200 µl/min	Equilibration Time	1 sec		
Eject Speed	200 µl/min	Bottom Sensing	Disabled		
	and the second	Draw Position Offset			
Equilibration Time	1 sec	Wash Mode	Use Multi Wash		
Bottom Sensing	Disabled	Multi Wash	Press edit to view settings		Exit
Draw Position Offset	0 mm	Allows you to set up a M	Multi Wash wash mode:	1	04:33
Wash Mode	Use Wash Vial 🖨	Filter Com	pare Timetable Propertie	s	File

3 Configure your wash method by selecting the appropriate wash solvents.

Multi Wash	Multi Wash
Solvent Time[s] Seat Needle Comment Off T 0 C C C C C C C C C C C C C C C C C C	Solvent Time[s] Seat Needle Comment S3  S3  S5  MEOH S2  T5  S1  S0  Saturdation of the seat of the

Note: For the Instant Pilot G4208A Firmware B.02.19 or higher is required



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