EVOSEP ENO

Software Installation Guide for MassHunter

UM-008B

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1 Software Installation for the Evosep Eno MassHunter driver

1.1 Introduction

This installation guide supports the installation of Evosep Eno driver when used with Agilent MassHunter. Evosep is not affiliated with Agilent but offers an interface to enable integration.

Evosep is not responsible for the functionality, compatibility, or support of any third-party software. Integration with MassHunter is subject to Agilent's technical specifications, licensing terms, and software updates, which are outside of our control. It is the responsibility of the user or system administrator to ensure that all third-party requirements, configurations, and dependencies are met and remain supported.

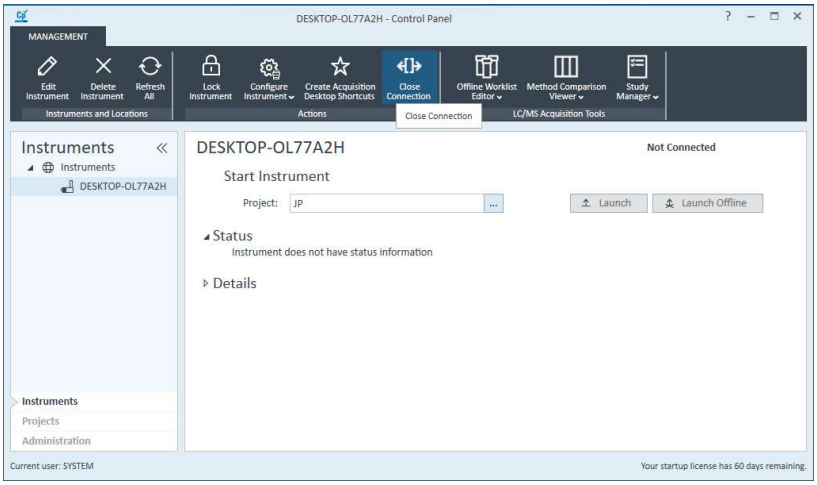
Evosep assumes no liability for issues arising from changes, limitations, or failures in third-party software, nor does it provide support for software components not supplied by us. The Agilent MassHunter manual is to be consulted for full computer requirements and instructions on MassHunter software. For use of Evosep Eno the Evosep Eno User Manual is to be consulted.

1.2 Installation

NOTE: This document focuses mostly on installation under Agilent MassHunter 12. The Evosep Eno driver will also work with MassHunter 10.1 and 11. If additional support is needed, feel free to contact Evosep for help on support@evosep.com.

1.2.1 Prerequisites:

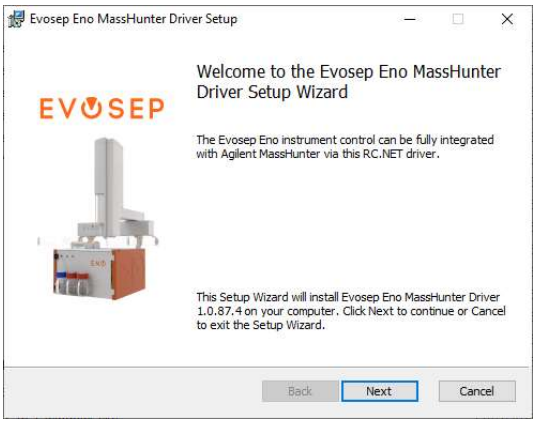
A. Make sure Agilent MassHunter is installed.
B. Close Agilent MassHunter, if running.
C. For MassHunter 11 and 12: Open Agilent Control Panel and click Close Connection.



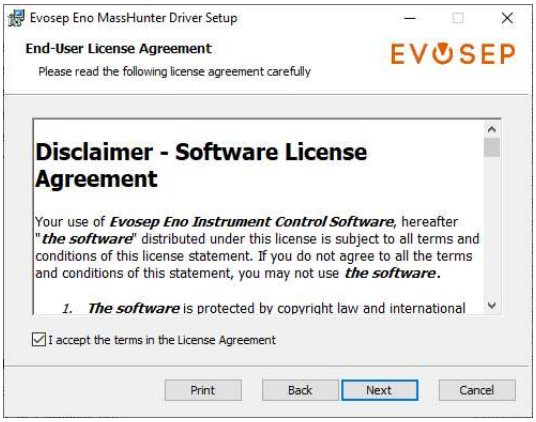
D. For MassHunter 10.1: Run “Remove MassHunter Processes” from its start menu shortcuts.

1.2.2 Installation procedure:

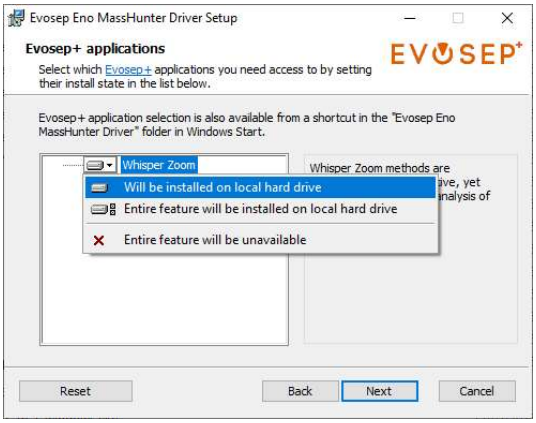
1. Connect the Evosep Eno instrument to the computer via ethernet cable, and make sure that the instrument is switched on.
2. Run the Evosep Eno MassHunter Driver Windows installer.
3. Click “Next”.



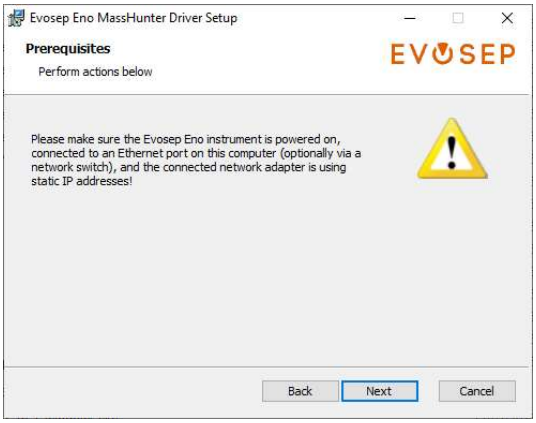
4. Tick the “I accept the terms in the License Agreement” checkbox and click “Next”.



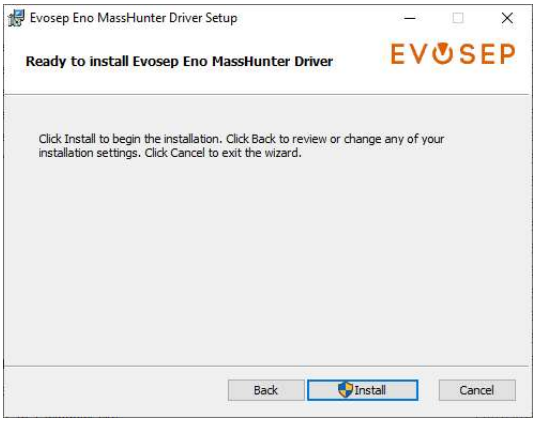
5. In the Evosep+ applications window, select to install any desired applications, then click “Next”.



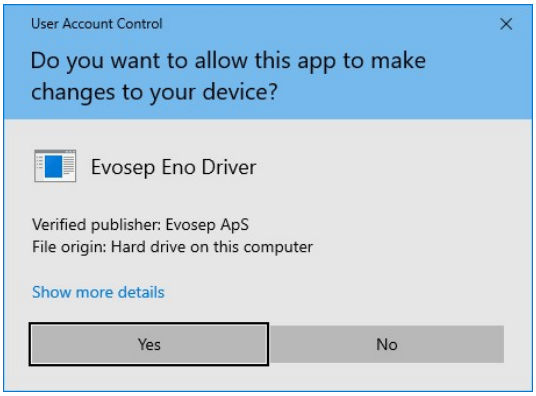
6. Please read the information in the “Prerequisites” window carefully, then click “Next”.



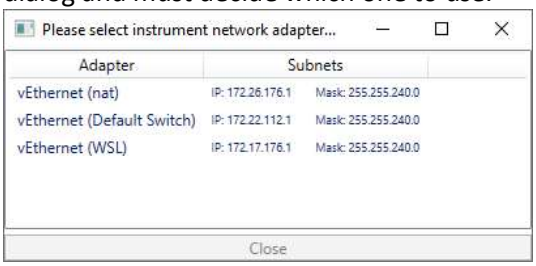
7. Click “Install” to begin the installation.



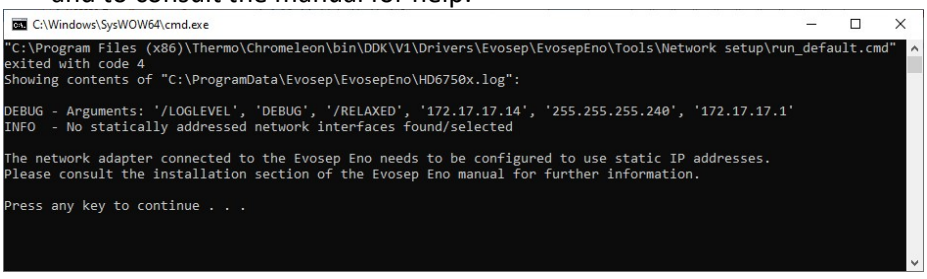
8. Click “Yes” on the Windows UAC screen, to allow the program to install the software.



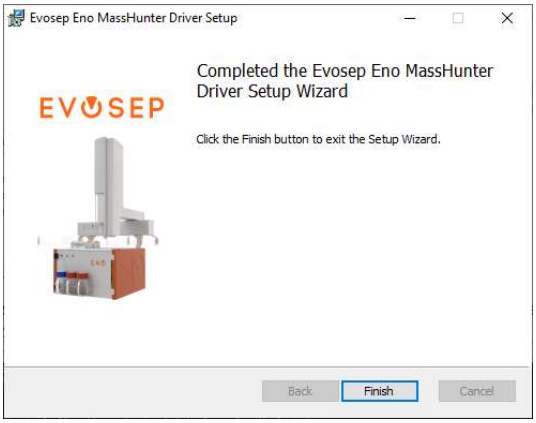
9. During installation, the computer’s ethernet configuration is checked, and one of the three cases below will occur:
   a. If a single statically configured ethernet adapter exists, the required Evosep Eno configuration is added to that.
   b. If multiple statically configured ethernet adapters exist, the user is presented with a selection dialog and must decide which one to use:



   c. If no statically configured ethernet adapters exist, a cmd window will be displayed, stating that and to consult the manual for help:



10. When the install is complete, click “Finish” to exit the installer.



1.2.3 Additional step required for current MassHunter versions

Note: In a future version of MassHunter, the modification described below is part of the standard MassHunter installation and must not be performed manually.

1. Open MassHunter’s RunPriorityList.xml file in a text editor (admin rights may be required).

   The file is typically located in:

   C:\Program Files (x86)\Agilent\MassHunter\Workstation\Acq\Configuration\System\LI\

2. If not already there, insert the text line “<Name>EVOSEPENO_1</Name>” in the list of names, as in the example below:

```
<?xml version="1.0" encoding="utf-8"?>
<RunPriorityList>
 <Name>CTCPALRC_1</Name>
 <Name>CTCPAL3RC_1</Name>
 <Name>ALS_1</Name>
 <Name>AutoSampler_1</Name>
 <Name>HiP-ALS_1</Name>
 <Name>MicroHiP-ALS_1</Name>
 <Name>CE_1</Name>
 <Name>CompactLCSampler_1</Name>
 <Name>CompactLC1220Sampler_1</Name>
 <Name>EVOSEPONE_1</Name>
 <Name>EVOSEPENO_1</Name>
</RunPriorityList>
```

3. Save and close the file.

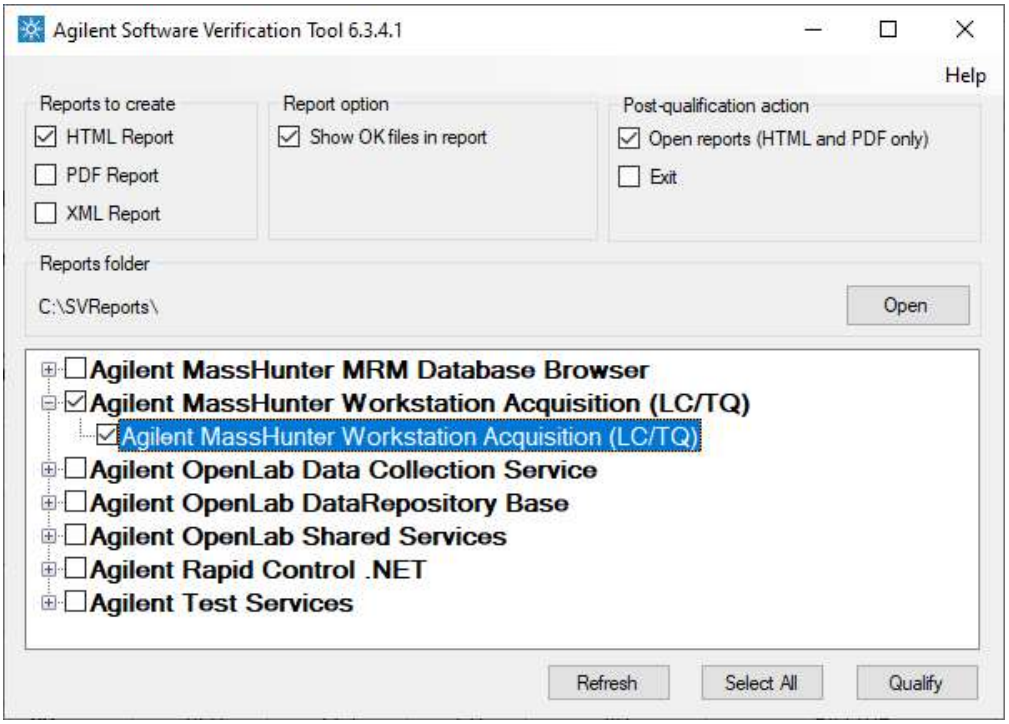
Note: This change will result in a warning or error if subsequently running the Software Verification Tool.

1.2.4 Installation qualification

The Evosep driver registers a manifest with Agilent SVT (Software Verification Tool), containing information about the included files and their exact versions and/or checksums. To verify the driver installation with regards to the correct files being present in the file system, only a few steps are necessary.

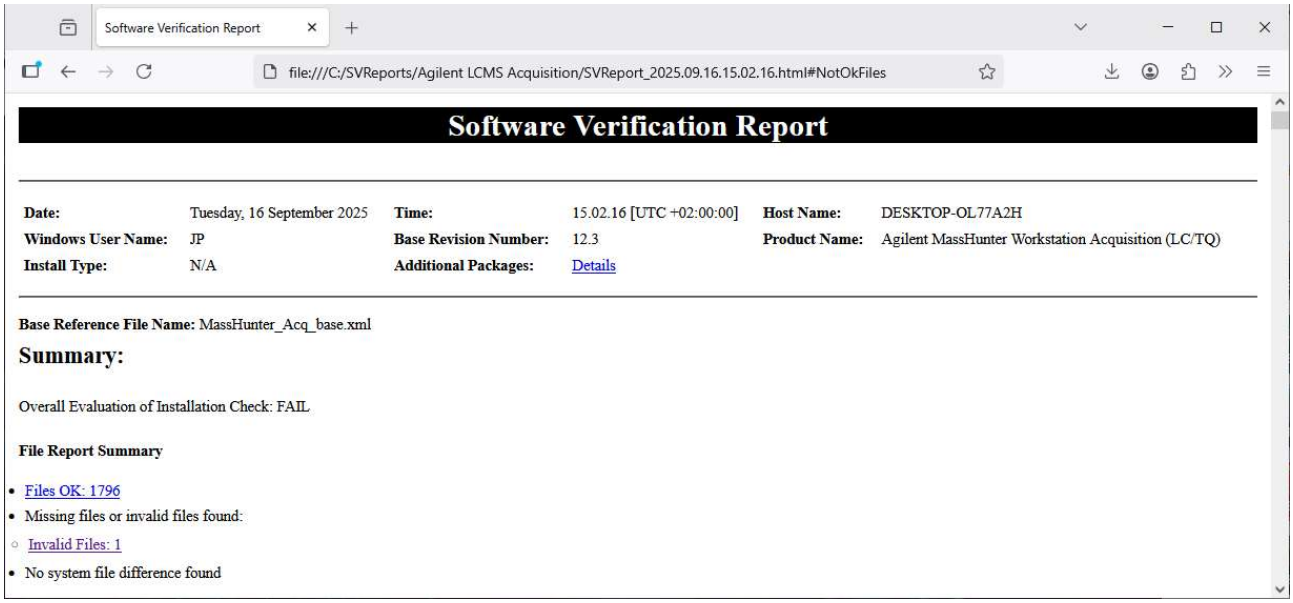
1. Launch the Software Verification Tool from Windows' Start menu

2. Check "Agilent MassHunter Workstation Acquisition (LC/TQ)" and click Qualify (you may adjust desired report format first)



NOTE: If you make changes to the system, make sure to click Refresh and re-select the item before re-qualifying!

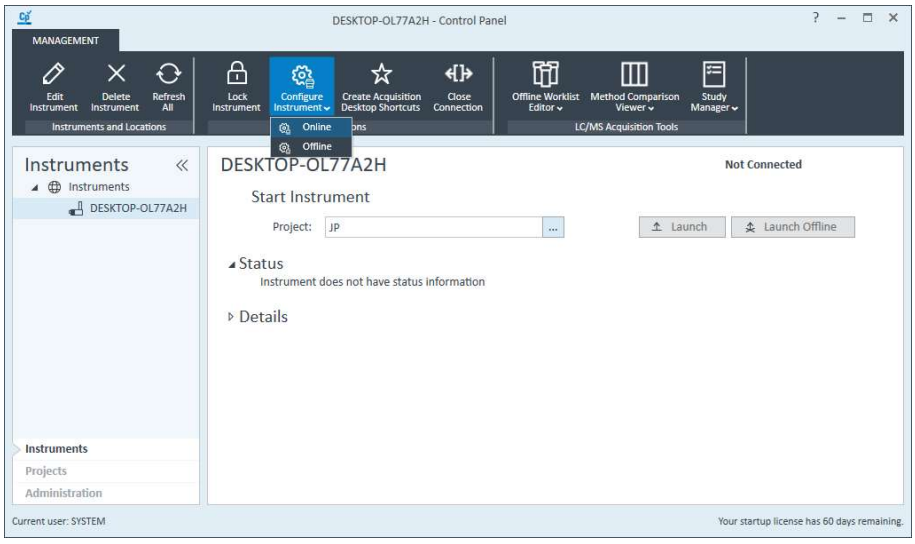
3. Verify the overall result, or if needed the details of the installation below
   Note: If you are using a version of MassHunter where you must edit the RunPriorityList.xml file as per above, this will result in an IQ error as the file has become invalid!



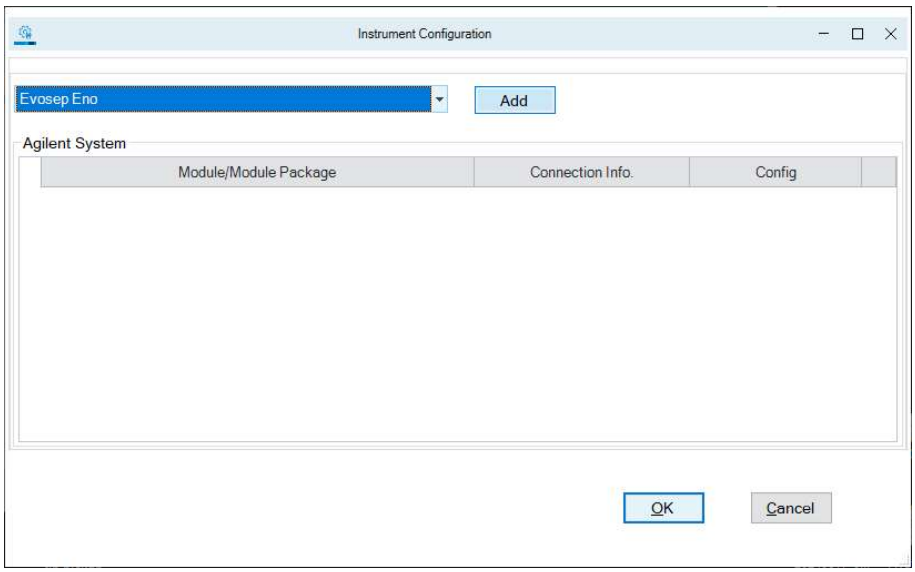
1.3 Create hardware configuration for Evosep Eno

4. Start Agilent Control Panel.

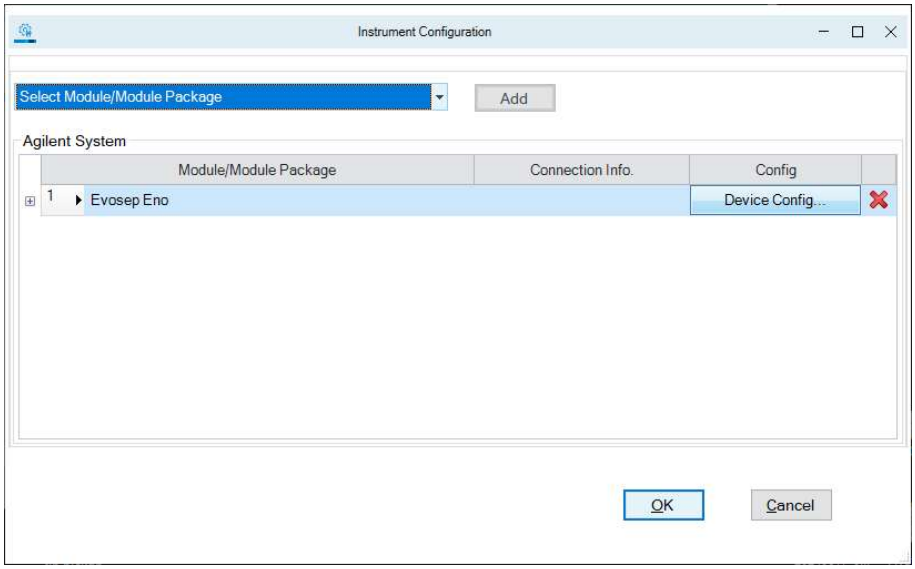
5. Select “Configure Instrument” > “Online”



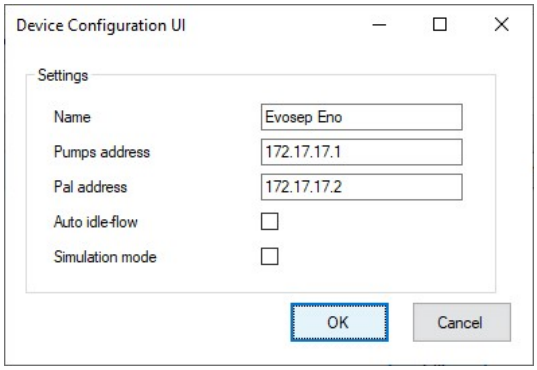
6. In the Instrument Configuration window, select “Evosep Eno” in the list and click “Add”.



7. On the added line, click “Device Config…”.



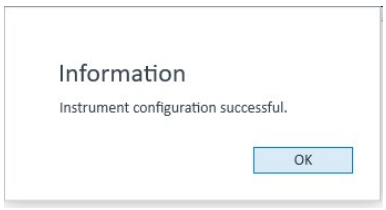
8. On the Evosep Eno Configuration dialog, you can set some basic instrument settings:



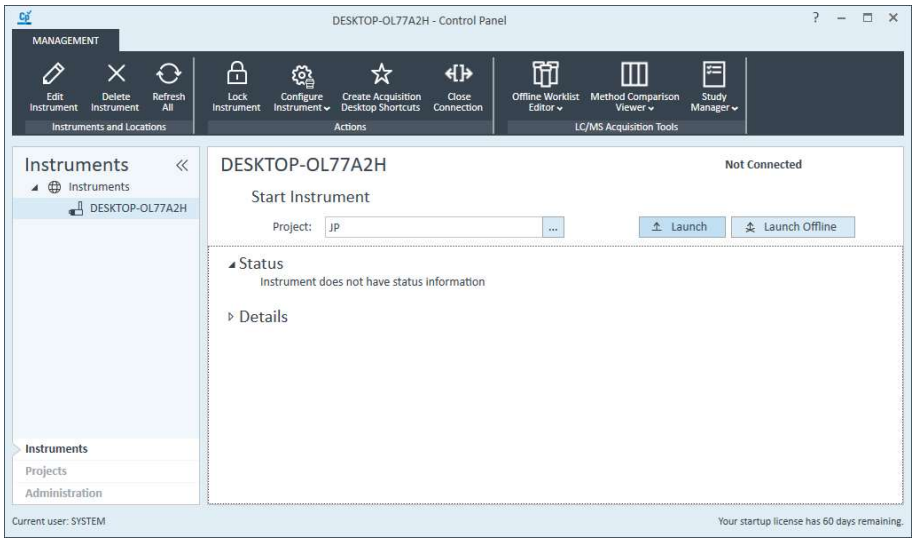
   a. Name: Used for display, leave at default.
   b. Pumps address: Communication setting, leave at default.

c. Pal address: Communication setting, leave at default.
d. Auto idle-flow: Start idle-flow after a few minutes of inactivity.
e. Simulation mode: **Use for testing without a Evosep Eno device present.** This will offer some very basic methods for testing, including emitting generated pump trace data.

9. When satisfied with the configuration, click “OK” to save and close the dialog.
10. Back on the previous dialog, also click “OK”
11. An informational dialog is displayed, click “OK”.

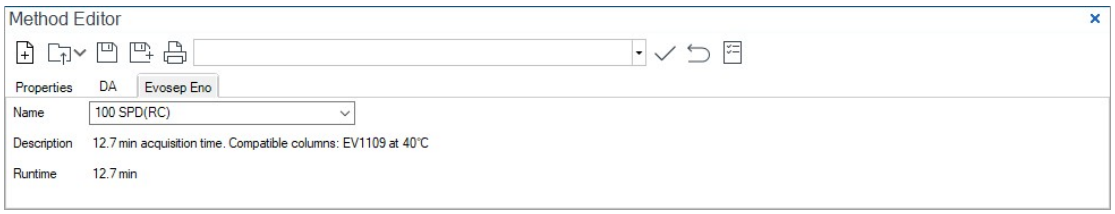


12. Click “Launch” to start MassHunter Acquisition Console.



1.4 Create MassHunter LC methods for Evosep Eno

1. In the Method Editor, select the “Evosep Eno” pane



2. In the drop-down list, select the desired method and click “Save As Method”.

3. Name the method file according to the Evosep Eno method name and click “Save”.

4. Repeating step 2 and 3, create a LC method for each of the Evosep Eno methods you want to use in your project. Note the method acquisition runtime, which you will need when creating the corresponding MS method (MS dependent, not described here).

   The Evosep Eno methods have these gradient lengths and properties:

Throughput	Cycle time	Gradient	Flow rate	Temperatur	Column Part Number/Details
Samples/da	Minutes	Minutes	µl/min	°C	Evosep P/N
500	2.9	2.3	4.0	40	EV1182
300	4.8	3.95	4.0	40	EV1182
200	7.2	6.4	2.0	40	EV1182
100	14.4	12.95	1.0	40	EV1109
60	24.0	22.4	0.6	40	EV1109
30	48.0	45.4	0.45	40	EV1137
W120	12.0	10.5	0.2	50	IonOpticks Aurora Rapid 5 x 75 µm
W80	18.0	16.3	0.2	50	IonOpticks Aurora Rapid 5 x 75 µm
W40	36.0	32.8	0.2	50	IonOpticks Aurora Elite 15 x 75 µm
W20	72.0	68.6	0.2	50	IonOpticks Aurora Elite 15 x 75 µm

Please note that besides these methods, there is also a “System and column wash” method whose duration is column dependent. The System and column wash method runtime is approximately 5 minutes, but since there is typically no need for collecting MS data during the wash, the MS acquisition time can be set to e.g., 1 min.