

MCS & Degasser Vacuum

Error

036-536 Error on Degasser & 036-537 Error on MCS

Technology: Ion Chromatography

How do you know you have this problem?

This document details how to fix the issue of no vacuum buildup. Magic Net will create an MCS and/or degasser error when the vacuum hasn't been created in 60 seconds.



This error can occasionally arise after a quick shutdown and then startup of the instrument and is often due to a pressure buildup in the MCS or degasser vacuum pump that needs to be released.

Magic Net will most likely produce the MCS error if you hear a high-pitched, continuous-tone whine when starting up the instrument instead of the usual "musical" ramp-up of the vacuum pump. Go ahead and perform the below procedure.

Procedure

- Go to the Manual window found on the bottom right corner of the MagIC Net software, select the IC, and go to the MCS or degasser tab, dependent on the error. A screenshot is shown at the end of the Procedure.
- 2. Select Off. Allow a moment and turn it back on. If this does not resolve the issue, continue with the below troubleshooting.



- 3. With either the MCS or degasser turned off in Manual Control, loosen but do not remove the white plug on the Vacuum port on the back of the IC.
- 4. Inspect the port labeled "Exhaust" for any liquid. If liquid is present, contact Tech Support.
- 5. Turn it back on within the same Manual Control window and allow it to run for ~30 seconds with the Vacuum port open. This releases the pressure build-up.
- 6. With the MCS or degasser still running, re-tighten the plug on the Vacuum port till it is snug to minor finger pressure (no tools).
- 7. The IC should now run without another vacuum error.
- 8. If an error returns, contact Tech Support. If the 036-536 degasser error is received, please review the troubleshooting information below to turn the degasser off.

C Manual control - Metrohm Anions	- 930 Compact IC Flex 1	—		\times
Device selection Workplace 919 IC Autosampler plus 1 941 Eluent Production Module 1 EPOD 930 Compact IC Flex 1 Suppressor	Anions Pressure 0 0 0 0			
Stop devices	On		Off	
			Close	e

Prevention

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- 1. When you need to stop flow on the IC high pressure [HP] pump or the peristaltic pump [purging air bubbles from HP pump], instead of **Stop HW**:
 - a. Click on the Manual button.
 - b. Click on the IC icon to make the device tabs available.
 - c. Click on the module or unit to stop (e.g., HP pump) and click the **Stop** or **Off** button.
- For longer-term shutdown of the instrument (more than ten min. shutdown), use the Stop HW function in the Equilibration window of the Workplace



Error Handling & Turning off Degasser in MagIC Net

Error Handling:

- 1. Magic Net will only stop the IC if the Error Handling has been defined.
- Configuration tab -> Tools -> Options -> Error handling has been defined. See the example screenshot below.

General	Error ha	ndling	Save	PDF	
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Deactivating Degasser in the Method

- 1. Navigate to the Method tab > File > Open > Select the method of interest.
- 2. Click the Degasser tab > and deselect the Active box, as shown in the screenshot below.
- 3. Save the method as "Anions No Degasser," for example.
- 4. If the water used to make the eluent is not degassed, the following procedures should be implemented to prevent air from building up in the system and high-pressure pump.
 - a. The simplest method is to boil the water for a few minutes and then cool in a closed container with little head space. Add concentrate or salts after degassing/cooling the water.
 - b. Sonication or stirring under a vacuum also works. Be careful not to contaminate the water.



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