

Leak Check Procedure For Flash EA1112

1. Perform the leak check procedure with the Eager 300 software.
2. If the leak check flow is below 5 ml/min for both the Reference and Carrier gas, then the system is leak tight.
3. If the Reference flow is not below 5 ml/min, disconnect the 2mm Teflon tubing from bulkhead fitting number 1 (see figure 1) on the left side of the top of the instrument. Install a 6mb brass plug into bulkhead fitting and tighten (see Figure 2). The Reference flow shown on the status page should go to below five ml/min. If the Reference flow does not go below five ml/min contact the CE Elantech Service Department for further assistance.
4. If the Carrier flow is not below 5 ml/min, disconnect the 2mm Teflon tubing from bulkhead fitting number 2 (see figure 1) on the left side of the top of the instrument. Install a 6mb brass plug into bulkhead fitting and tighten (see Figure 3). The Carrier flow should go to below 5 ml/min. If Carrier flow does not go below five ml/min, contact the CE Elantech Service Department for further assistance.

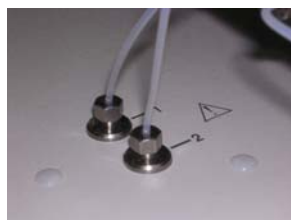


Figure 1



Figure 2



Figure 3

5. If the Carrier flow does drop with bulkhead fitting number 2 plugged, remove the brass plug and the MAS200 Autosampler. Replace the MAS200 with the stainless steel cap with 2mm tube from bulkhead fitting number 2 connected (see Figure 4) and perform leak check again.



Figure 4



Figure 5

6. If leak check passes without MAS200 Autosampler in place make sure Autosampler piston is clean, sight glass is not cracked and

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- O-ring for sight glass is intact and clean. Replace MAS200 and perform leak check again.
7. If leak check fails with MAS200 removed, then find the midpoint of carrier circuit and cap it off.
 - a. For Nitrogen/Protein and NC Soil configurations cap off at the top of the right hand reactor (see Figure 5). Go to status page and wait for flow to drop.
 8. If the Carrier flow goes below 5 ml/min, then the leak is after the reactors. If not, then it is either the reactors or the Autosampler. Check the O-rings at the top and bottom of the reactors to make sure they are clean and there are no flat spots or cuts. Replace where necessary.
 9. If leak is after the reactors, then check that the O-rings in adsorption traps are clean and undamaged. Replace where necessary.
 10. Make sure all connections are tight.
 11. Reassemble all 2mm tubing and perform leak check again.
 12. If the above procedures fail to find and eliminate the leak, contact the CE Elantech Service Department for further assistance.

<u>Description</u>	<u>Part Numbers</u>
Brass Plug	350-451-00
2mm tubing (1meter)	420-015-00
6mm nuts	350-404-03
2mm ferrules	290-345-00
18mm bottom O-ring	290-206-40
18mm top O-ring	290-329-10
25mm bottom O-ring	290-206-82
25mm top O-ring	290-206-49
Sight glass for MAS200	301-080-20
O-ring for sight glass	290-300-14
O-ring for MAS200R foot	290-300-17