Check particle profiler for leaks

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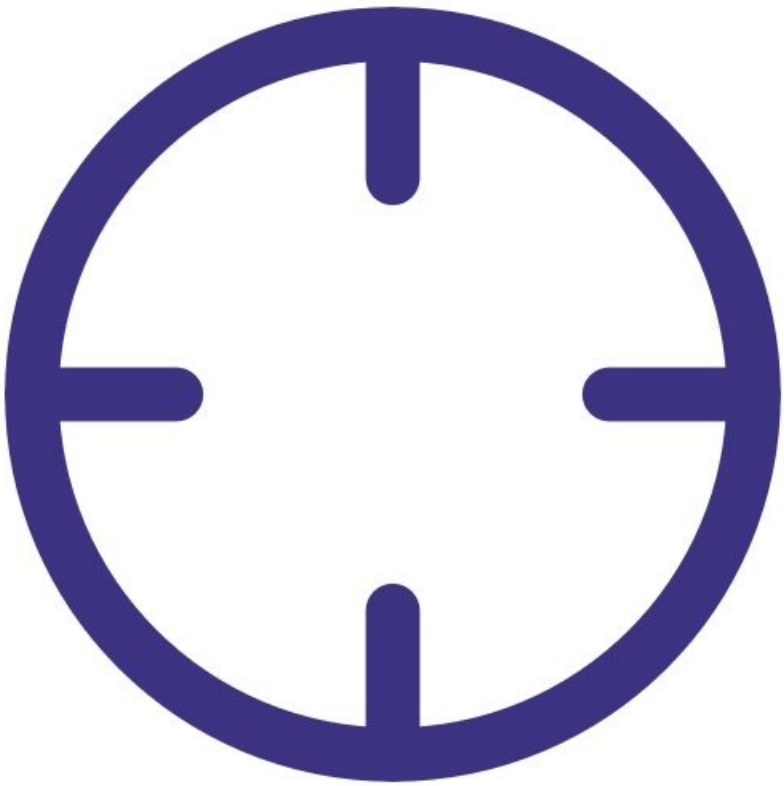

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INTRODUCTION

A leak can be caused by loose connections, worn seals (o-rings) or split tubing.

If a leak occurs, this can affect the flow rate which will have a big impact on the accuracy of the measurement.

To understand how often you should perform this service activity, click here.

PARTS:

- Leak gauge (1)
- Luer fittings (1)

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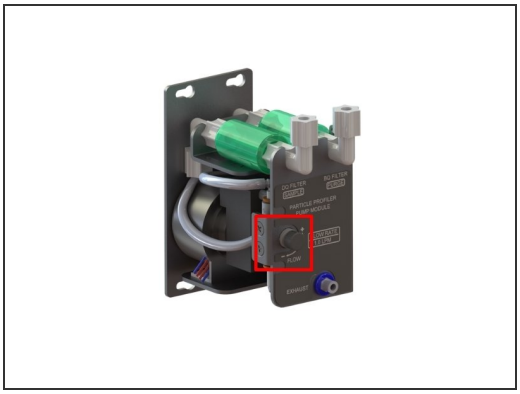
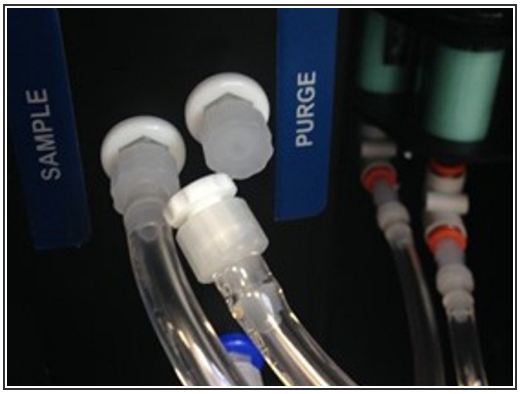
Step 1 — Enter service mode

- Enter service mode so any fluctuations in the data caused from this activity can be excluded from air quality reports.

Step 2 — Open sample & block purge





⚠ Adjust the sample flow by pulling the adjustment knob outwards, turning the knob to increase/decrease flow, and pushing the knob back in to lock when desired flow has been reached.

- Fully open the sample flow adjustment valve, which is located on the face plate of the pump module.

  ⓘ On older monitors, the sample flow adjustment valve is positioned at the bottom of the enclosure under the PDI cover.

- Block the purge flow by pinching the purge tube.

  ⓘ On older monitors, block the purge flow by disconnecting the purge line and capping the purge line and ports with luer caps.

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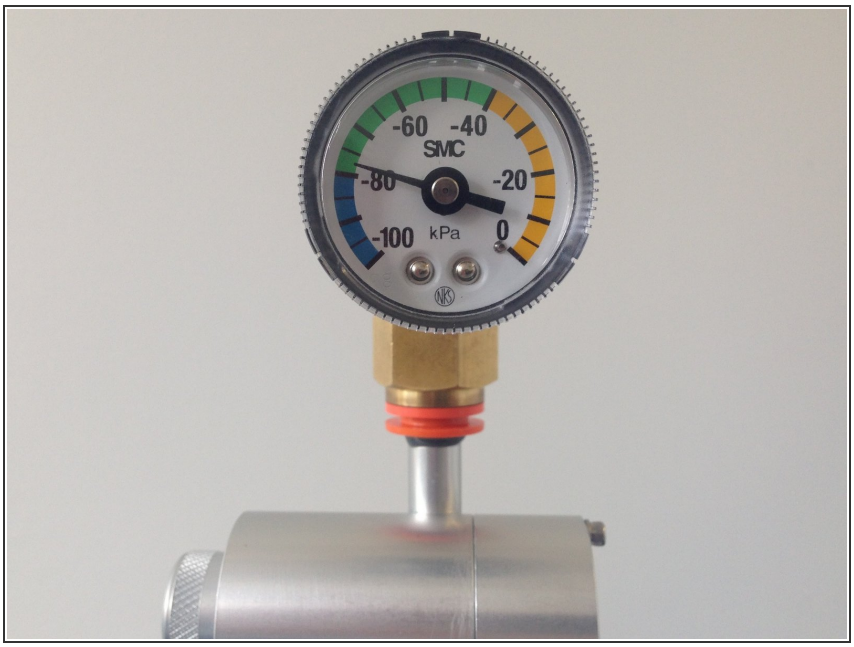
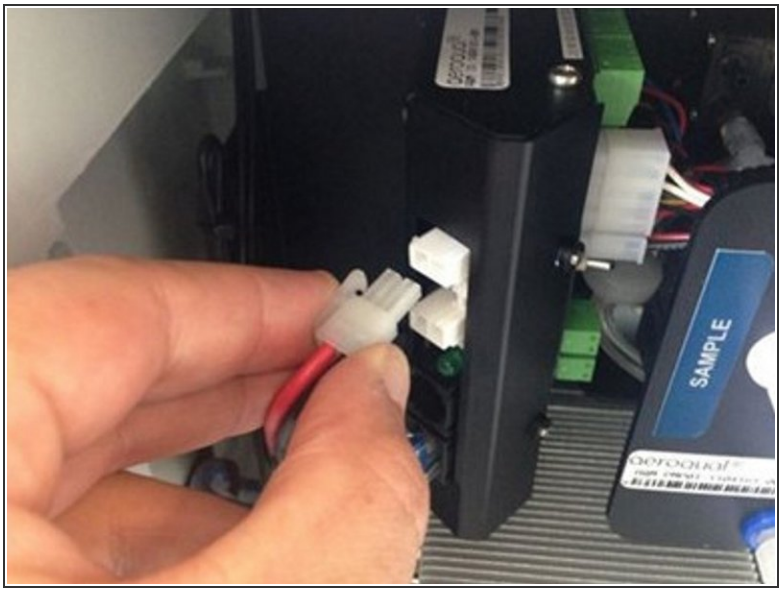
Step 3 — Attach gauge



- Remove the TSP inlet and place the vacuum gauge on the inlet.
- Wait for the gauge to stabilise.

ⓘ The gauge should reach at least -60 kPa while power is connected.

Step 4 — Observe pressure change



- Stop the sample pump by pulling out the black and red power cable from the electronics module.
- Count how long it takes for the pressure to change by 10 kPa.

ⓘ If the pressure change (leak rate) is greater than 10 kPa in 10 seconds, you'll need to check for loose connections, worn seals (o-rings) or split tubing.

ⓘ For example, if the needle moves from -70 kPa to -60 kPa in 20 seconds, this is OK, but if if moves from -70 kPa to -60 Kpa in 8 seconds, this indicates a leak.

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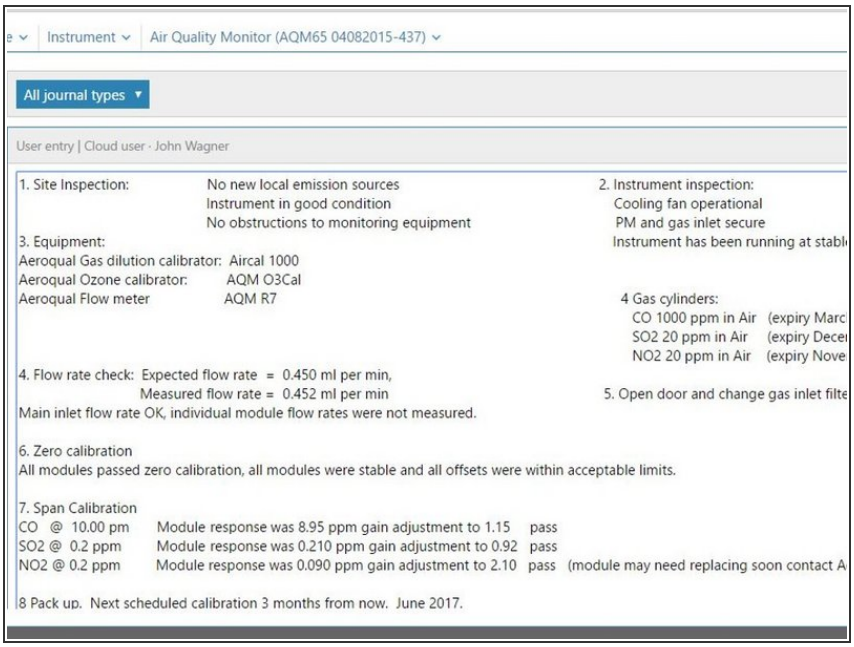
Step 5 — Record in journal



- Record the results of this service activity in the monitor's journal.
- Exit service mode.

For further support, contact Technical Support.