

How to exchange a filter element for 3C-020-P02-Fi coalescer (January 09 2012)

1. First, removing the compensator from the main body.



Removing this part.



Using a screw driver and removing each screw.



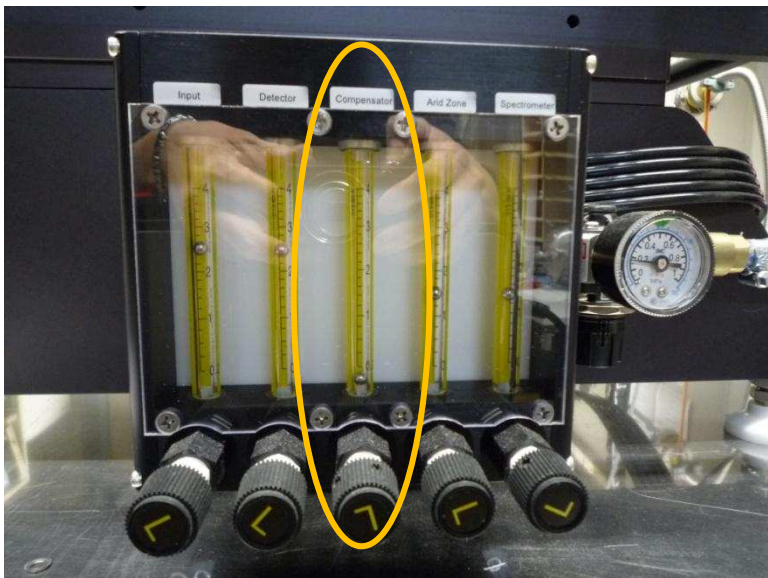
Removed it completely.



At that time, two connectors are also removed from the compensator.

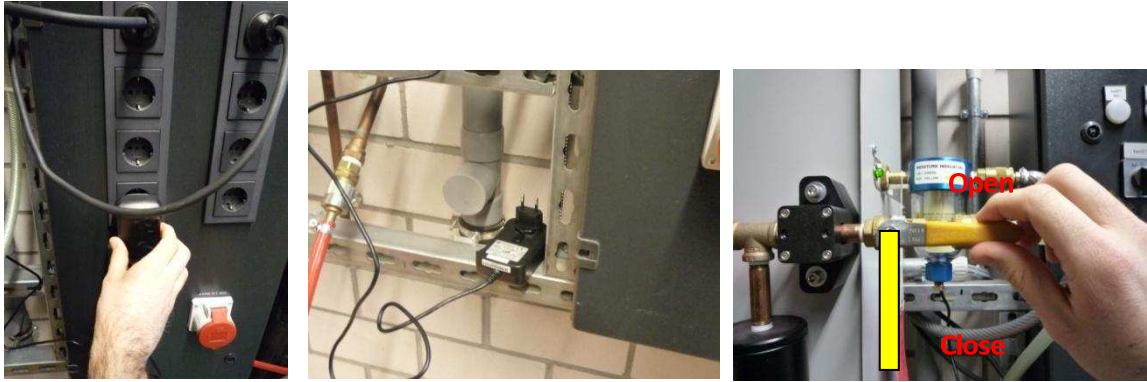


Keeping the removed part in the desiccator for a while.

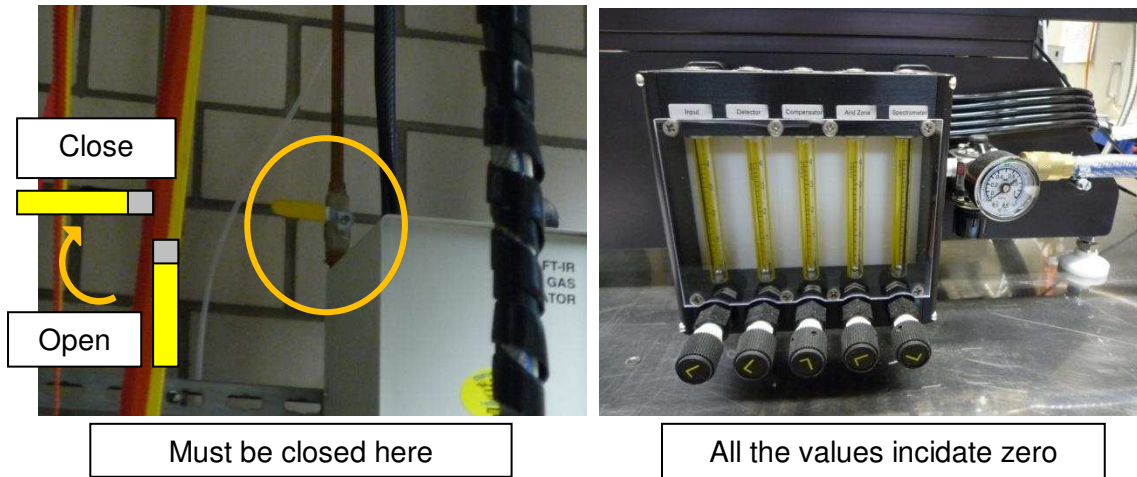


Now, the flow scale of compensator must be zero.

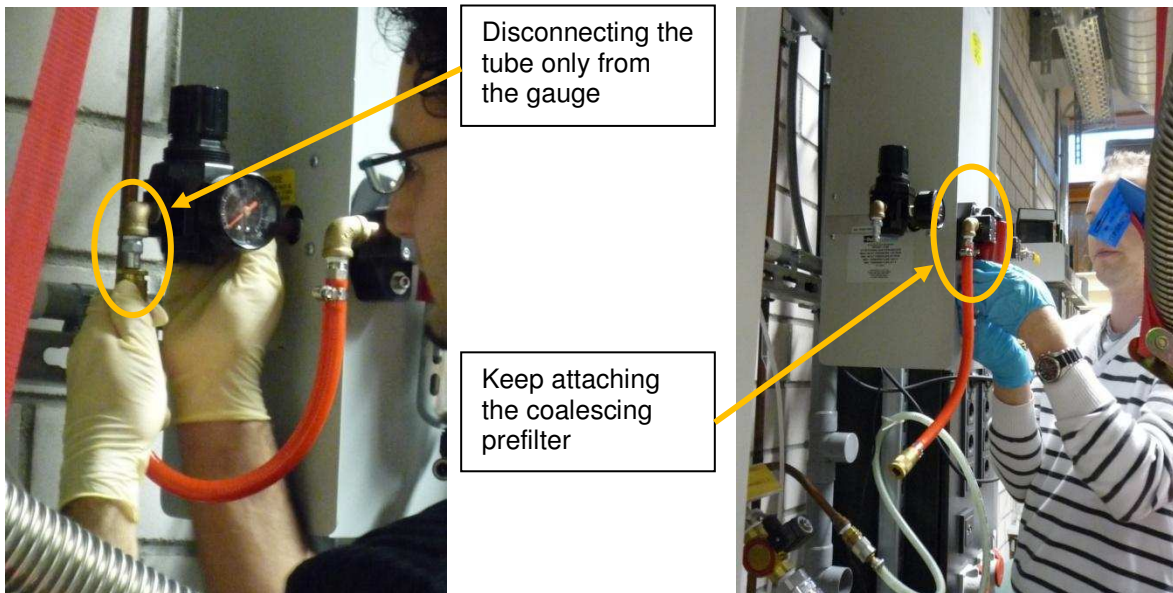
- Cut off the power supply of the moisture indicator (plug off), then close the yellow valve of the FT-IR Purge Gas Generator



There is another valve above. Need to close it.



- Disconnect the tube from the gauge before removing the metal cover

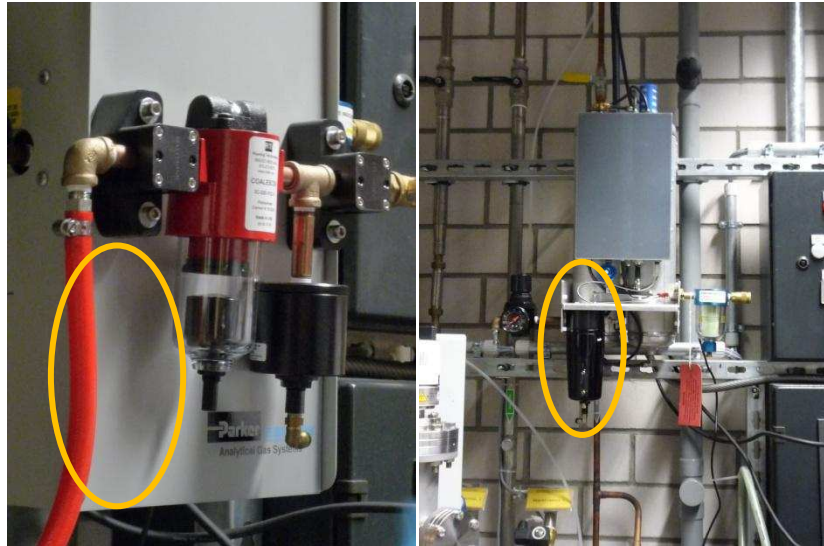


- The location of the filter element for 3C-020-P02-FI coalescer is in the metal cover like a box.

This is a photo from bottom.



The location is on a left foreside corner.

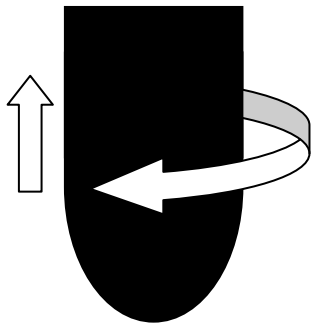


5. So, need to remove the metal cover.

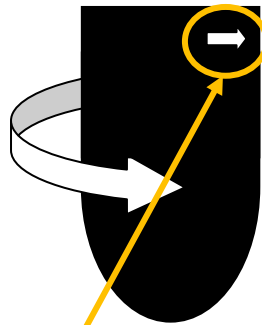


6. Open the black filter container

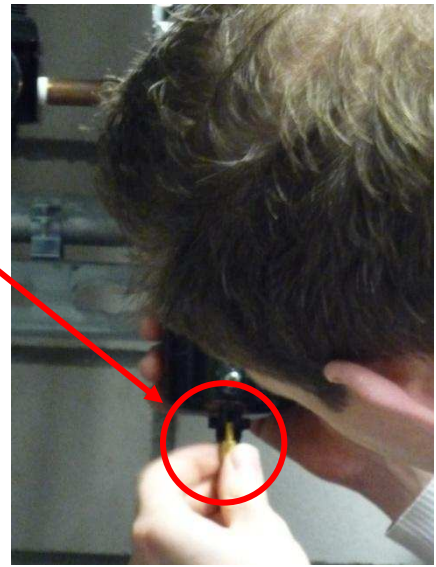
Need to push it up a bit first, then twist in a clockwise direction (a right-handed rotation) and pull it down. Don't forget to remove this **bottom part first**.



Open



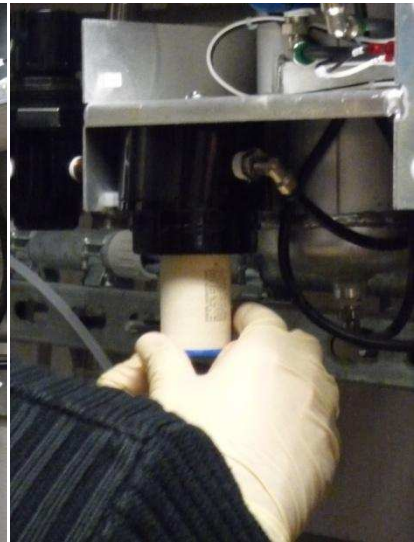
Close (lock)



There is a small arrow for lock.



This is the inside. Need to pull it down gently.

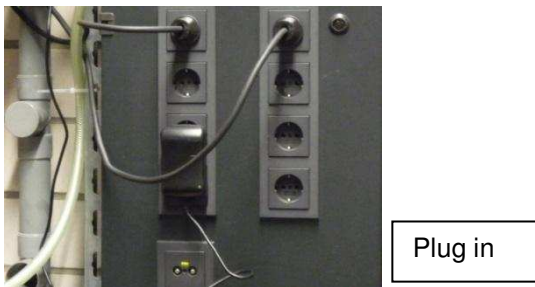
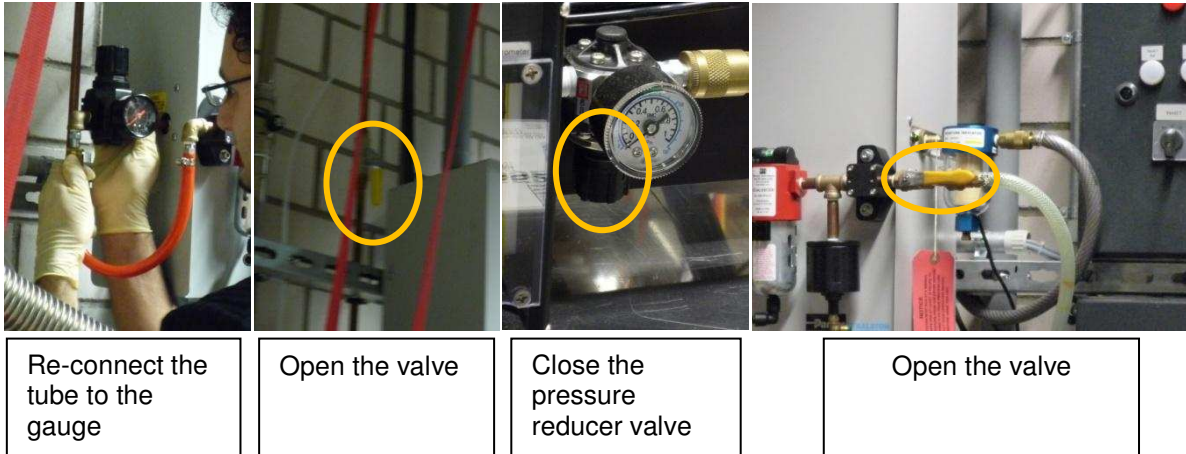


Exchange the filter. Pushing it up slowly.

7. Put the black filter cover back and put the metal cover back



8. Right after this filter element for 3C-020-P02-Fi coalescer change, a filter tube for Y83-700-BX coalescing prefilter and a moisture indicator cartridge replacement has done (see the other instruction for exchanging a filter tube for Y83-700-BX coalescing prefilter and a moisture indicator cartridge replacement)
9. After all the filter are replaced, restore all



Note: Since all three filters have been exchanged at a time, Jens waited for 6 hours for a moisture indicator cartridge turned to light green. Therefore, the compensator was mounted next day.

10. Put the compensator back to the ellipsometer



Note: This is the final process for the replacement of a filter element (3C-020-P02-Fi coalesce).