



How to use the TGA 4000 ?

1. Check that the gas pressure (sample and balance) reaches at least 2 bars. If not, contact Yann Lavanchy
2. **Turn on the cooler** and check the water level
3. Switch on the computer and log in using your Gaspar credentials
4. Log in to: <https://imxinstruments1.epfl.ch/cae1200/cae.html> to switch on the instrument on the Windows 10 Switch computer located in front of the Zetasizer
5. Open software *Pyris Manager*
6. Click on TGA 4000 at the top left of the screen
7. Purge gas: on the Control Panel press *Apply Purge gas* (Nitrogen or Air 20mL/min)
8. Let the instrument equilibrate for at least 1h
9. Open *Method Editor* 
10. You can create a new method under *File -> New Method*
11. Under Initial State, select the gas by double clicking *Switch the Gas to*
12. Under Program, you can set the initial temperature (recommended 30°C)
13. By clicking *Add a step -> Temperature Scan* you can add a thermal ramp (maximum temperature **950°C**, rate from **0.1 to 50°C/min**)
14. By clicking *Add a step -> Isothermal* you can add an isotherm
15. Save your Method under *File -> Save Method As*
16. Open *Pyris Player* 
17. You can create a new sample list under *File -> New Player*
18. By clicking *Add a step -> Sample Group* you can generate a sample list
19. Specify the method to be used to measure your sample list under *Sample List -> Method Name*
20. You can add samples by clicking *Add a sample*
21. Specify the path to save your files under *Sample -> File Name*
22. Enter the position of your crucibles in *Location*
23. Place an empty crucible in every used location and tare all of them by selecting the *Sample List -> Tare List*
24. Place **2-15 mg** of sample in the crucibles and weigh all of them by selecting the *Sample List -> Weigh List*
25. When you are ready, save your Player List and click *Start* 