

How to use the DSC 8000?

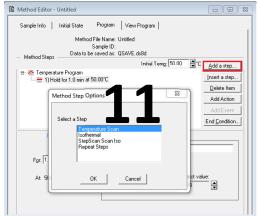
- 1. Check that the gas pressure reaches at least 2 bars. If not, contact Yann Lavanchy
- 2. Turn on the intracooler
- 3. Switch on the computer and log in using your Gaspar credentials
- 4. Log in to: https://imxinstruments1.epfl.ch/cae1200/cae.html to switch on the instrument on the Windows 10 Switch computer located in front of the Zetasizer
- 5. Open software Pyris Manager
- 6. Click on DSC 8500 at the top left of the screen
- 7. Let the cooler reach -100°C (at least 1h)
- 8. Open *Method Editor*
- 9. You can create a new method under File -> New Method
- 10. Under Program, you can set the initial temperature
- 11. By clicking Add a step -> Temperature Scan you can add a thermal ramp (min -60°C, max 600°C, rate from 0.1 to 50 °C/min)
- 12. By clicking Add a step -> Isothermal you can add an isotherm
- 13. Save your Method under File -> Save Method As
- 14. Open Pyris Player 🚫
- 15. You can create a new sample list under File -> New Player
- 16. By clicking Add a step -> Prepare Sample then Add a step -> Load Reference you can load the reference using the autosampler (don't forget to check the Location)
- 17. By clicking Add a step -> Sample Group you can generate a sample list
- 18. Specify the method to be used to measure your sample list under Sample List -> Method Name
- 19. You can add samples by clicking Add a sample
- 20. Specify the path to save your files under Sample -> File Name
- 21. Place 2-15 mg of sample in the pan and enter the weight in Weight
- 22. Enter the position of your pan in *Location*
- 23. When you are ready, save your Player List and click Start
- 24. Once your measurements are done, turn off the intracooler and wait 3 hours for the coolant to reach room temperature before closing the software and switching off the instrument to avoid water condensation

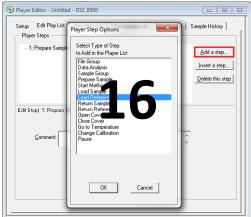
Phone:

E-mail:

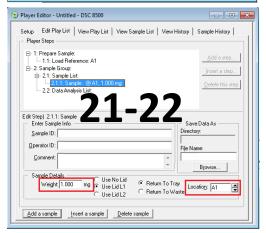


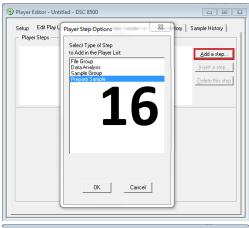


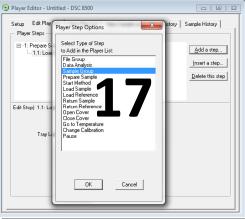


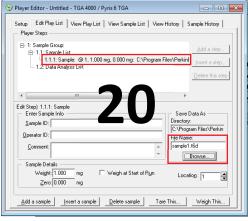












Phone:

E-mail:

Website:

+41 21 693 28 49

yann.lavanchy@epfl.ch

epfl.ch/research/domains/mhmc