

HPF Protocol

1. Bake out the HPF overnight before use. Switch on the HPF, enter the date and, ensure taps at the back are open, then press air heater on.
2. First thing in the morning on the day of sample processing press air heater on and start another bake out, let this run for around an hour, the longer the better.
3. Ensure a full dewer of LN₂ is available.
4. After the bake out has finished allow at least 45 minutes for the HPF to cool.
5. Close the taps at the back of the HPF, then slowly pour liquid nitrogen into the polystyrene funnel until the HPF has reached 100% LN₂.
6. Wait for the HPF to cool and gain pressure.
7. The HPF is ready for use when the screen says "ready for freezing". Start by running blanks (around 10)
 - Record the Ks, pt and rt of each run in the notebook kept with the HPF.
8. Once all samples have been processed remove them from the sample draw and put them into cryo tubes keeping them cold in LN₂. storage dewer
9. Remove polystyrene funnel, switch off HPF and allow LN₂ to evaporate, if it is to be used the next day open the taps at the back and drain LN₂ into polystyrene box.