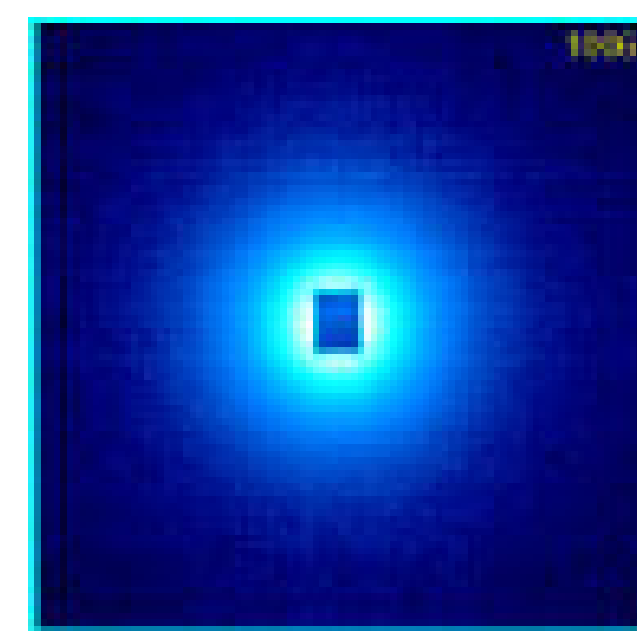


# LAB-TOOLS' VARIABLE TEMPERATURE NMR PROBE



Lab-Tools  
<http://www.lab-tools.com>

## LAB-TOOLS VARIABLE TEMPERATURE SPECTROMETER

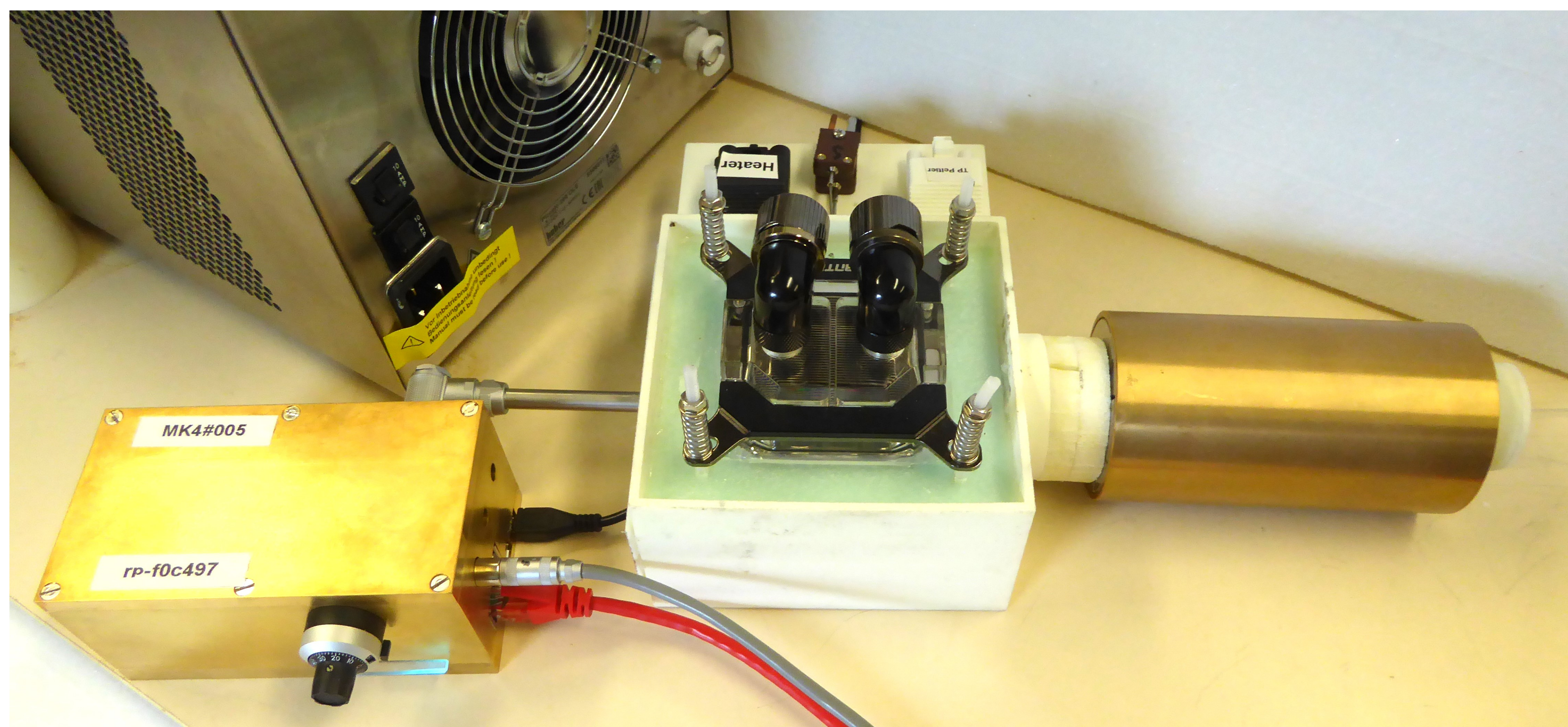


## DESCRIPTION

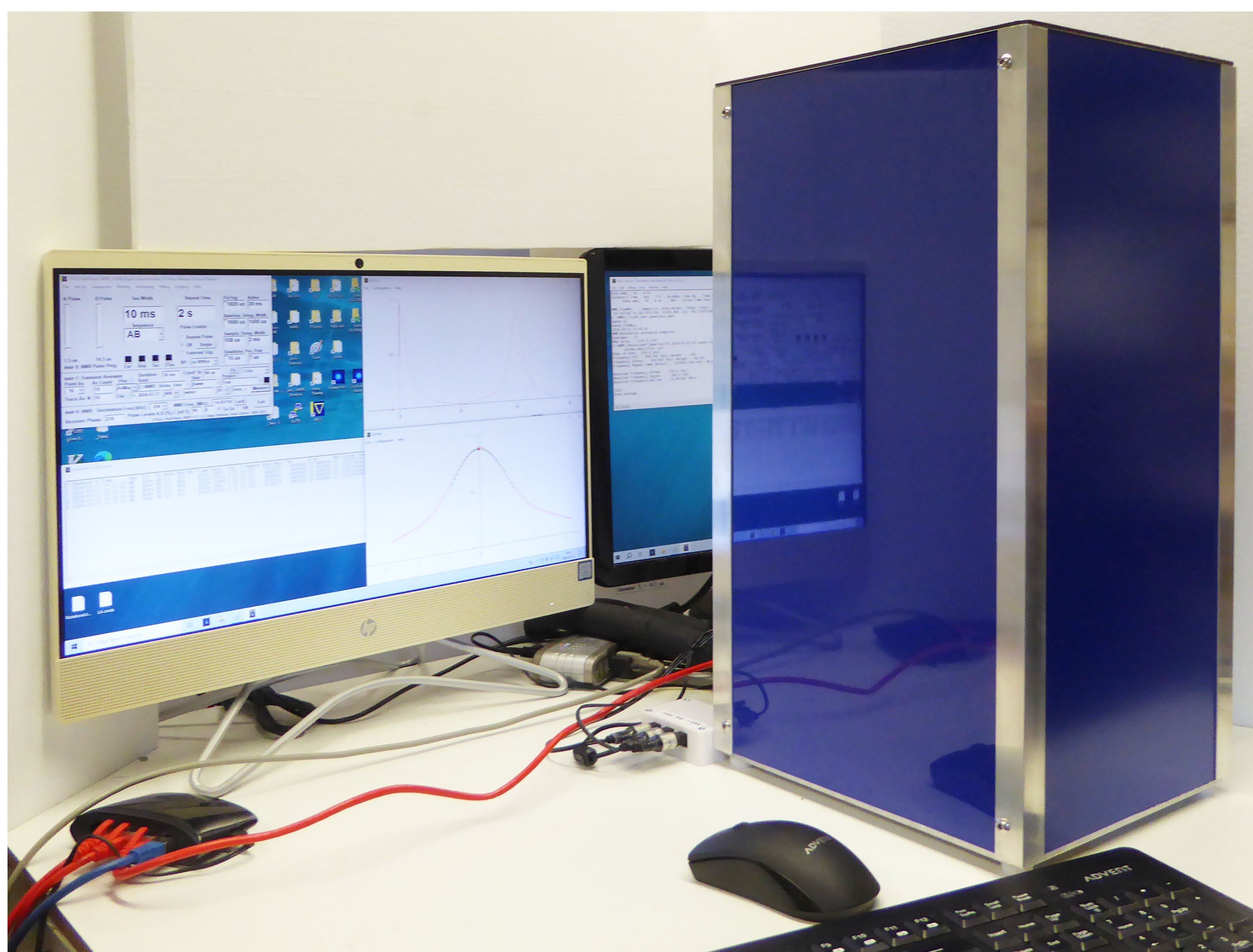
Lab-Tools offers variable temperature capability for their bench-top NMR spectrometers. This addition to the Lab-Tools NMR suite is both affordable, and versatile.

### Why Choose Lab-Tools?

- Wide-range sample temperature control using Peltier thermo-electric chillers. -65C to +85C.
- NMR Cryoporometric (thermodynamic) measurements of nano- to micro-pore size distributions.
- Used by international research establishments.



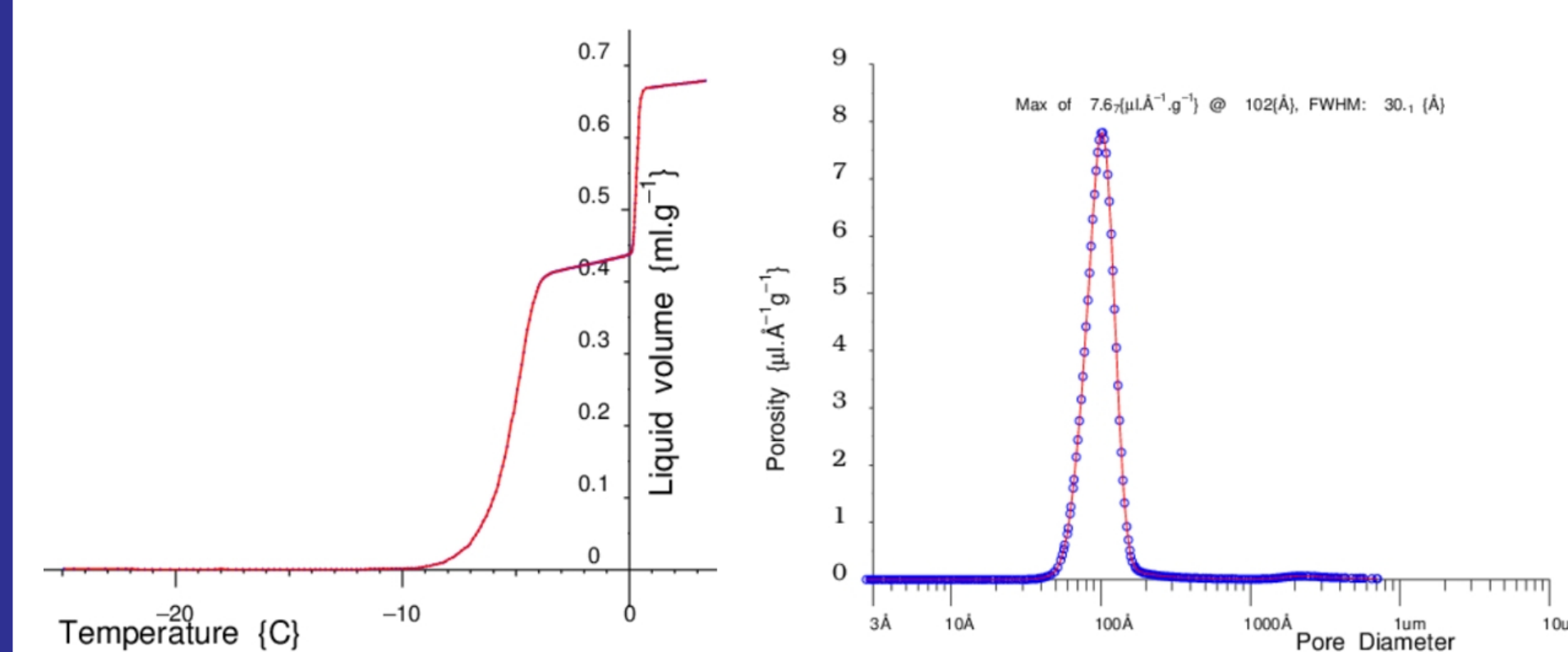
Gold MK NMR Spectrometer with white CryoP7 Peltier thermo-electrically cooled NMR probe and 0.5 T Halbach Magnet.



NMR Cryoporometer.

## EXAMPLE DATA

Measuring silica pore size distribution:



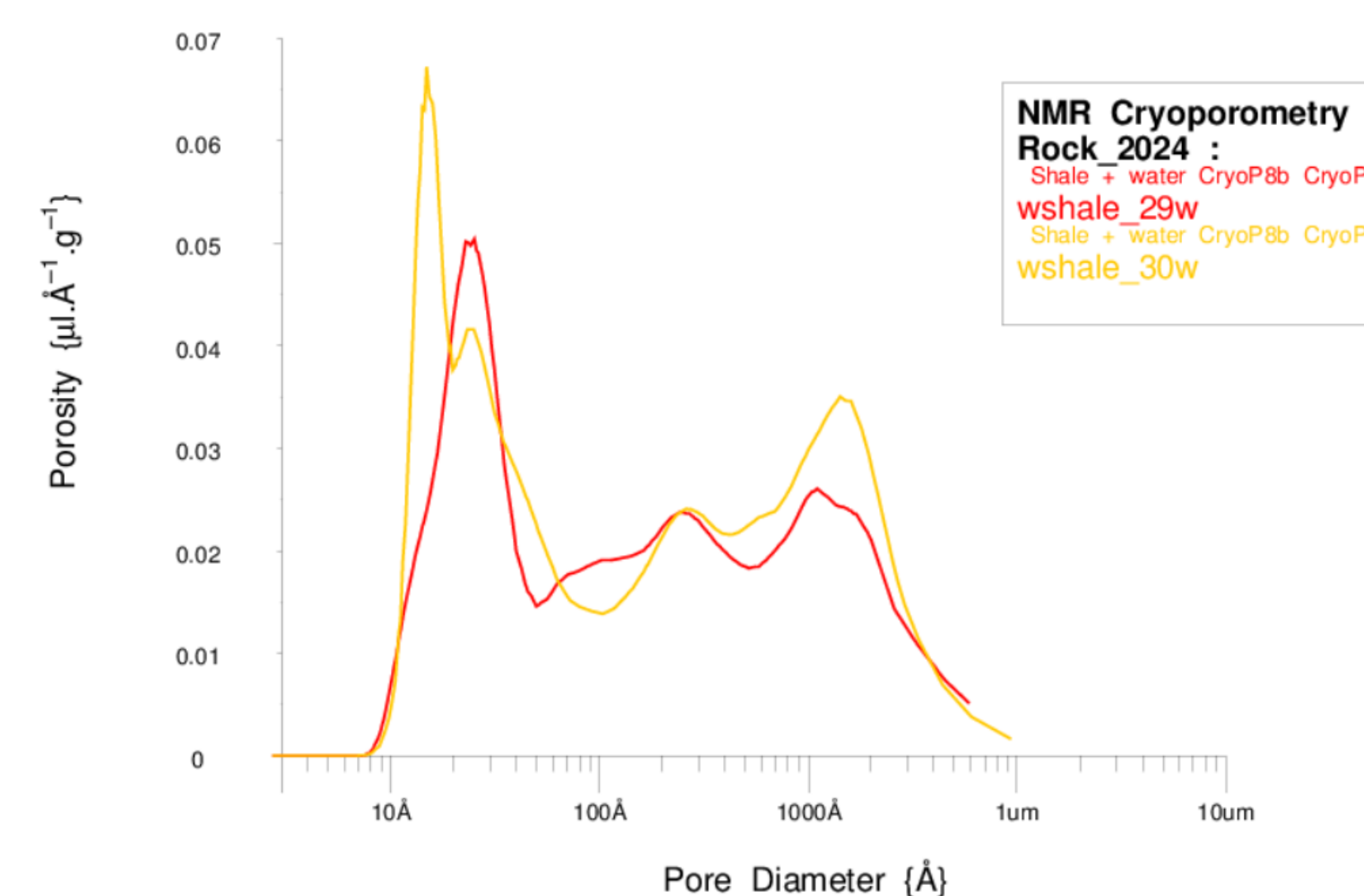
**Left:** Melting curve, from -25 °C, for water in a sol-gel with nominal 100 Å;

**Right:** Corresponding pore-size distribution calculated using the Gibbs-Thompson equation.

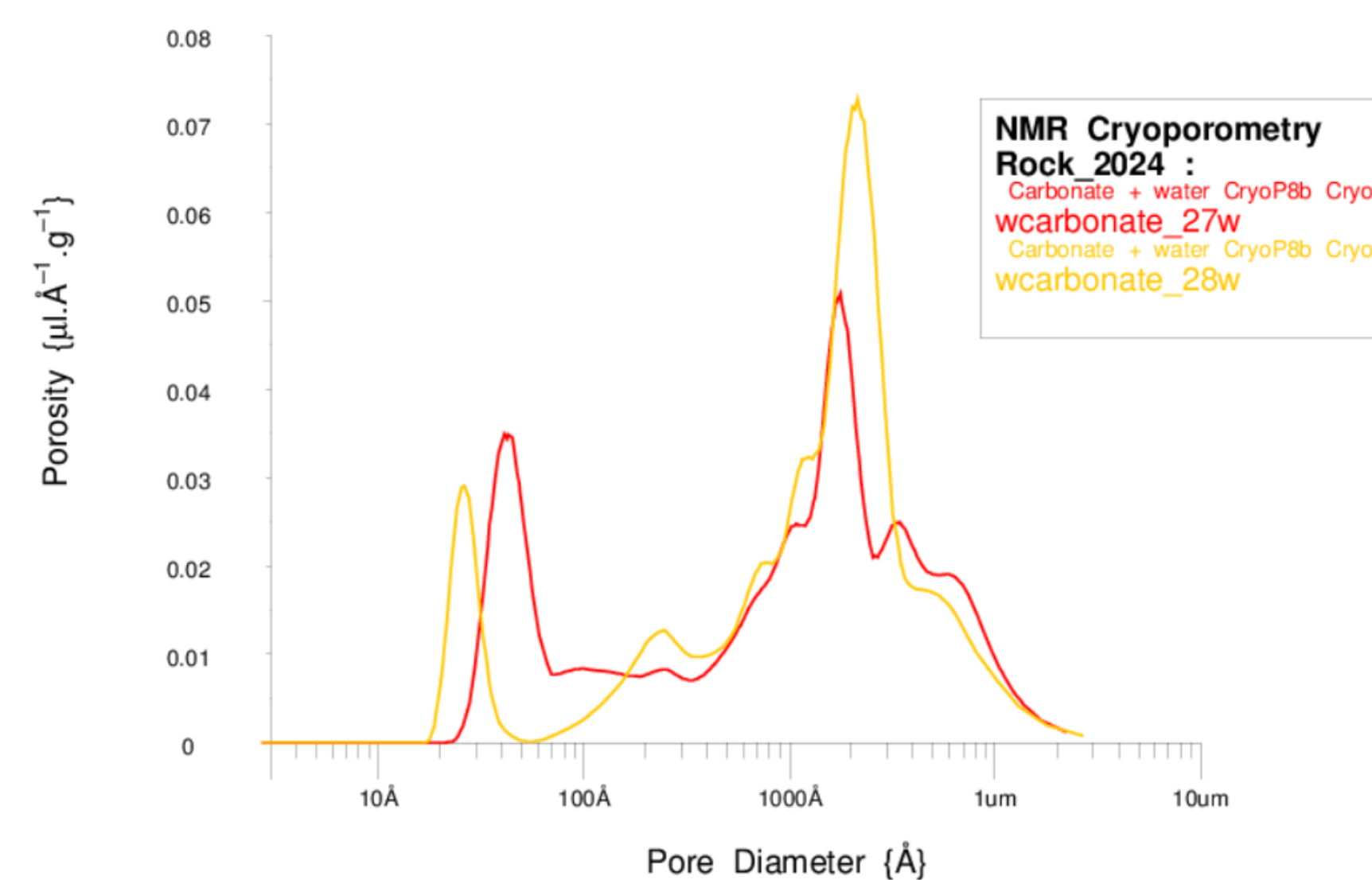
## APPLICATIONS

Thermodynamic measurements of rock pore size distributions:

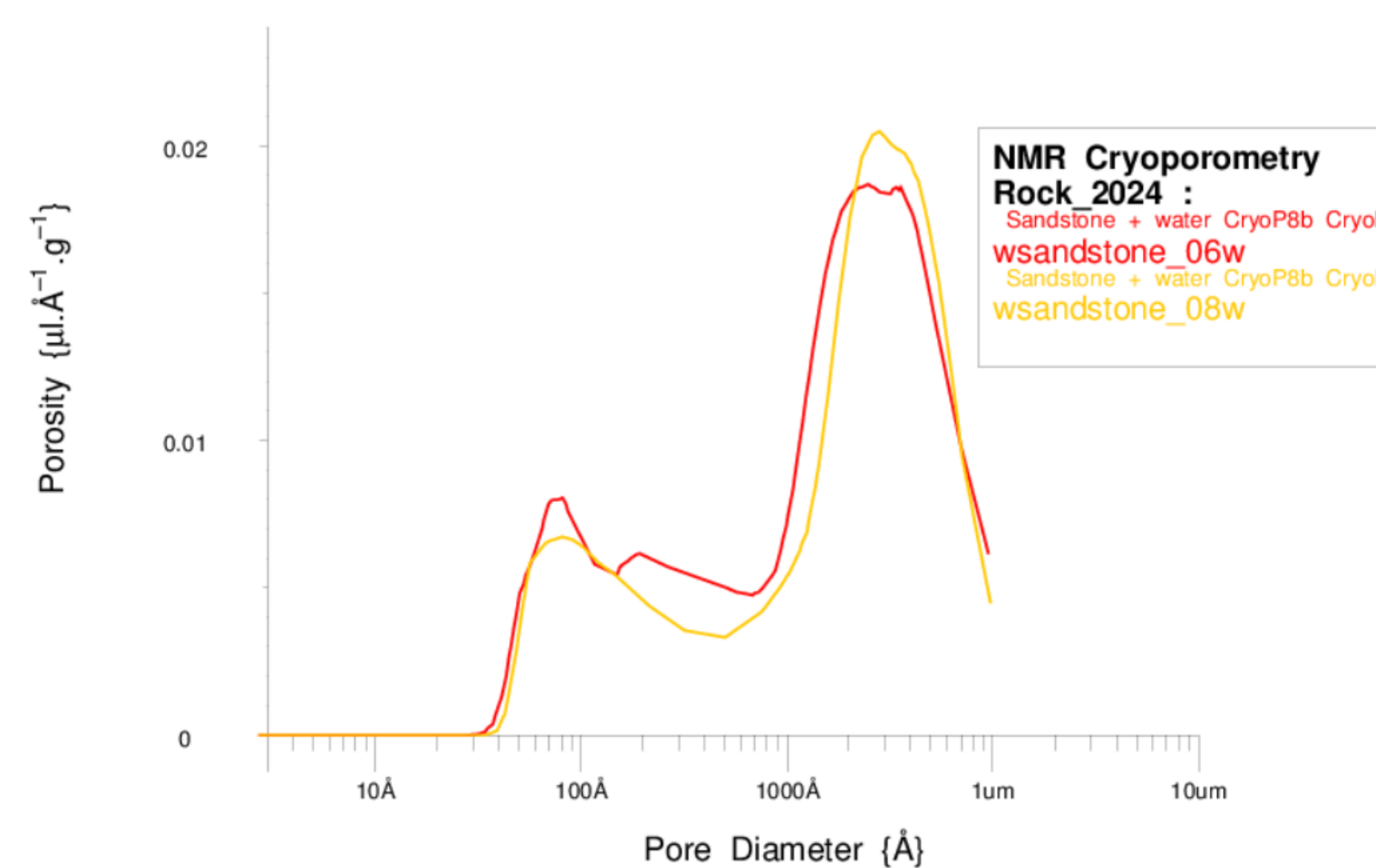
### Shale



### Carbonate



### Sandstone



## FURTHER INFORMATION

**See:** <http://www.lab-tools.com/nmrspectrometer/>

**Email:** [nmr@lab-tools.com](mailto:nmr@lab-tools.com)

**Tel:** +44 (0) 7805 437 241