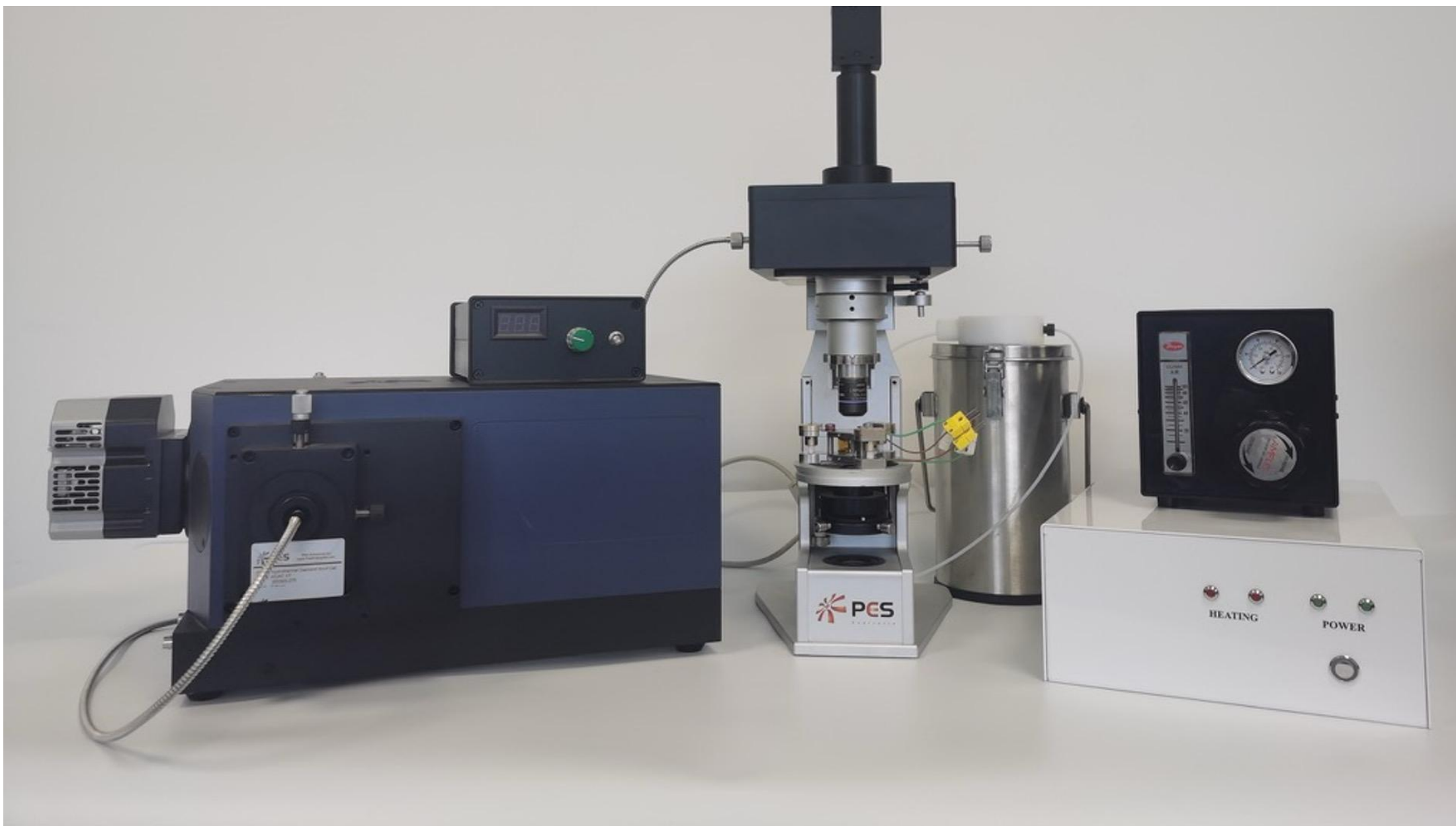


Hydrothermal diamond–anvil cell

Raman HDAC Microprobe



System configuration:

Easypeak Raman HDAC Microprobe with Temperature and Pressure Control

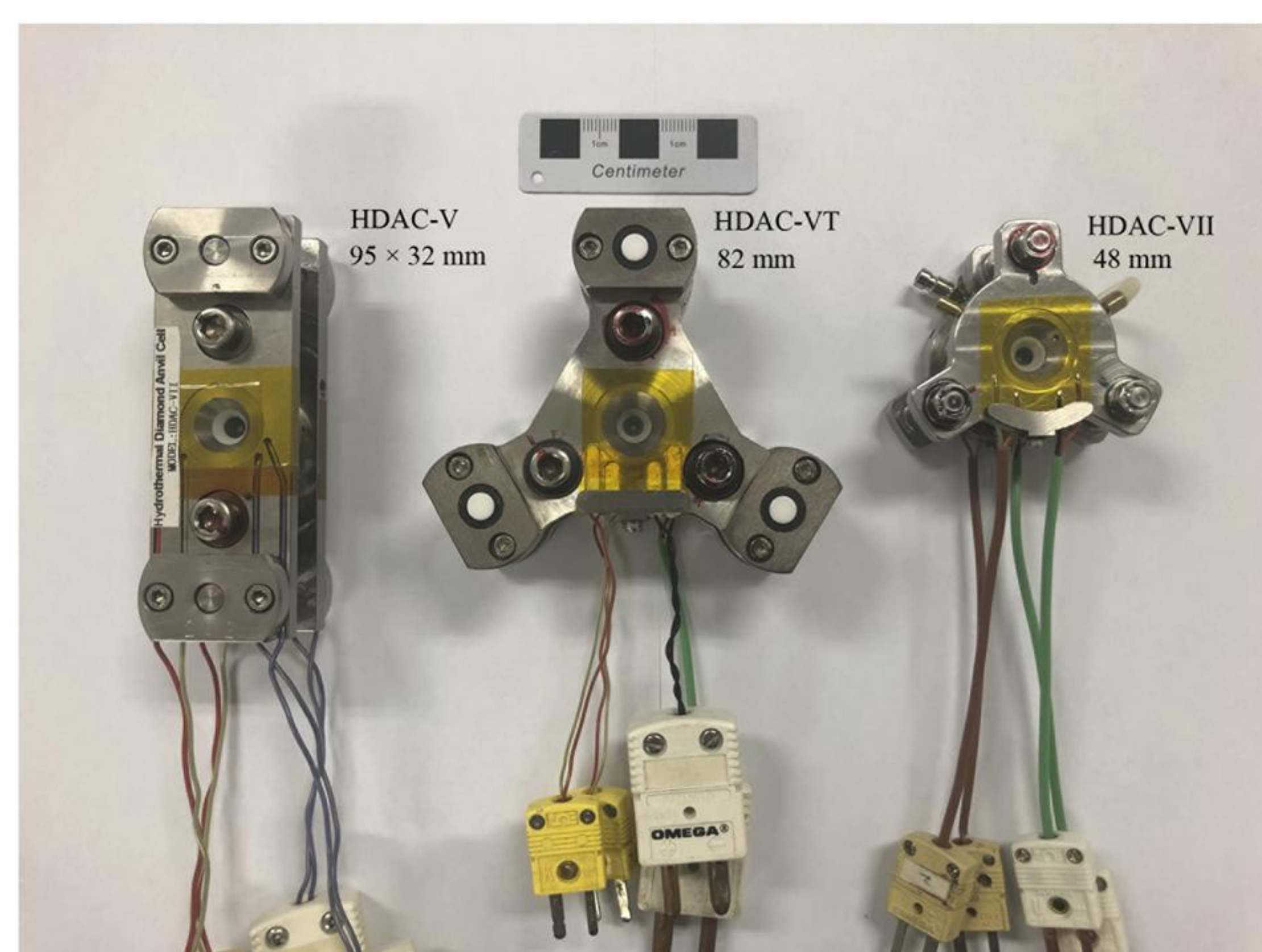
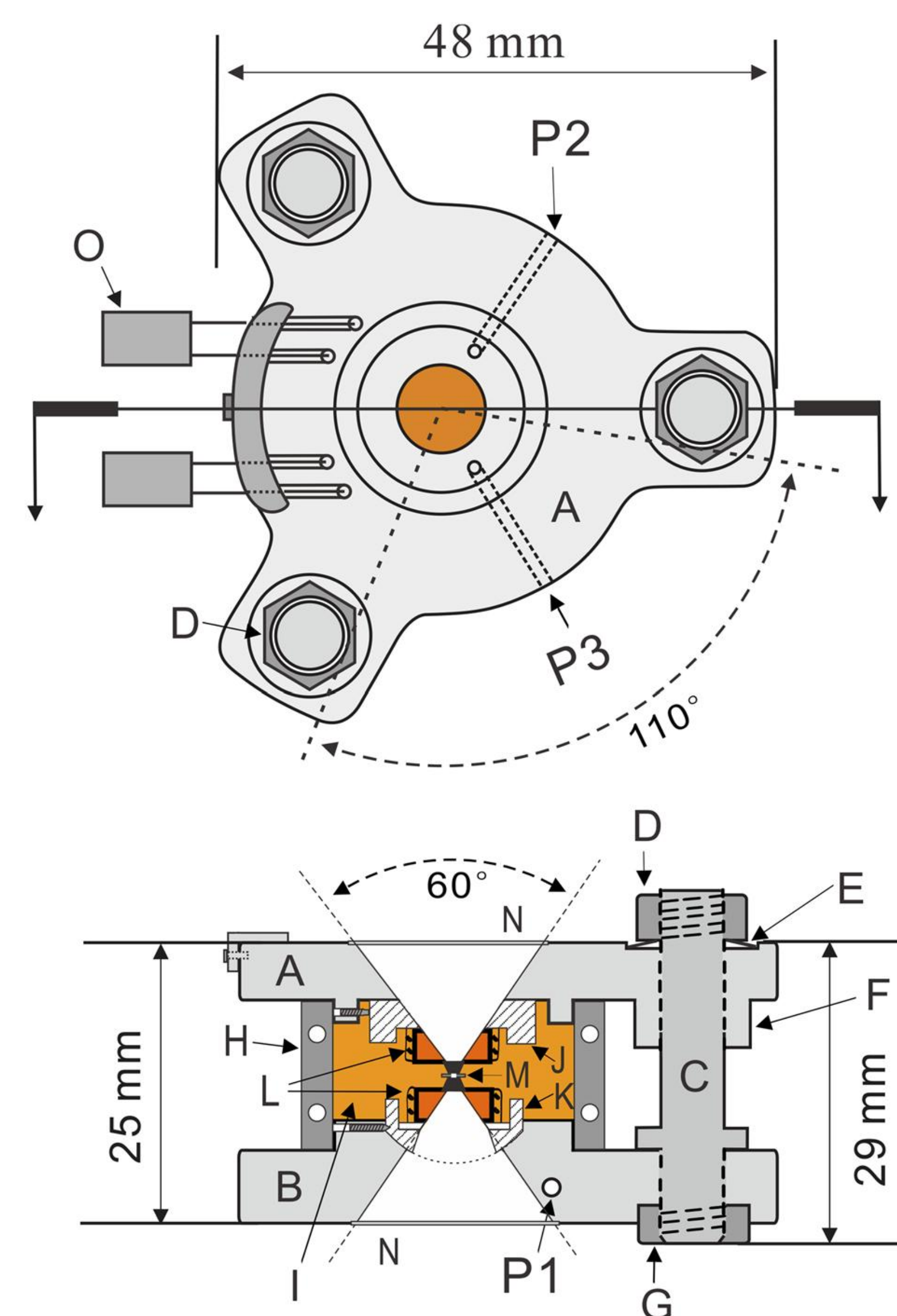
The Easypeak Raman Hydrothermal Diamond–Anvil Cell (HDAC) Microprobe with Temperature and Pressure Control is a sophisticated instrument designed for precise chemical analysis under extreme conditions. It combines Raman spectroscopy with a diamond–anvil cell to study substances at high temperatures and pressures, simulating environments like those found in geological processes. This tool is essential for research in materials science, geosciences, and chemistry, offering insights into the molecular dynamics and transformations of samples under specific, controlled conditions.

- ✓ HDAC hydrothermal diamond pressure chamber
- ✓ Temperature controller
- ✓ Image acquisition system

Key Benefit Features:

- Temperature range: room temperature to 1000°C
- Temperature accuracy: $\pm 0.1^\circ\text{C}$
- Heating rate: 1 to 100°C/min.
- Microscope working distance: 12mm
- Diamond anvil face: 0.5–1.6mm
- Pressure range: atmospheric pressure to 6 GPa
- Low temperature range: up to -100°C (special requirements)
- Image capture: 5 million images

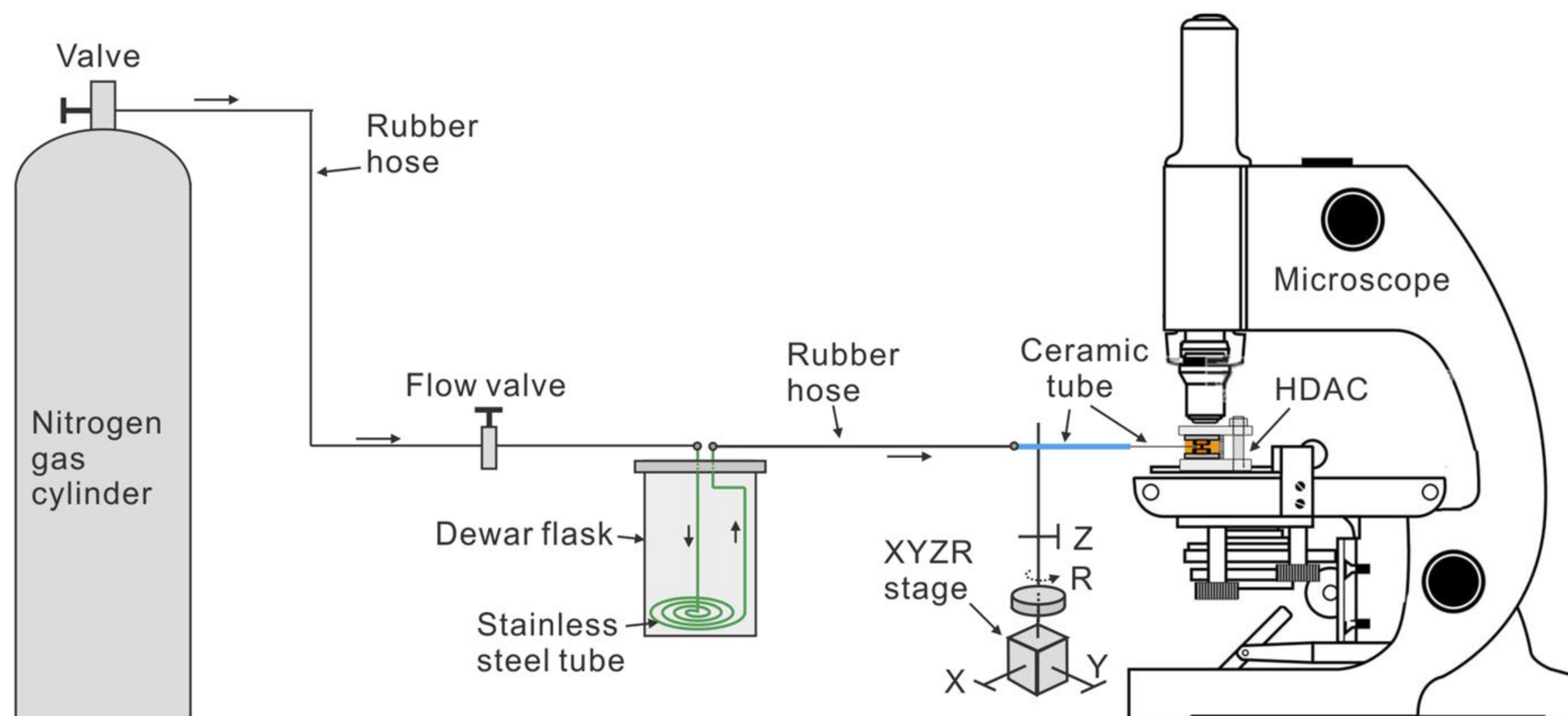
HDAC Stage Diagram



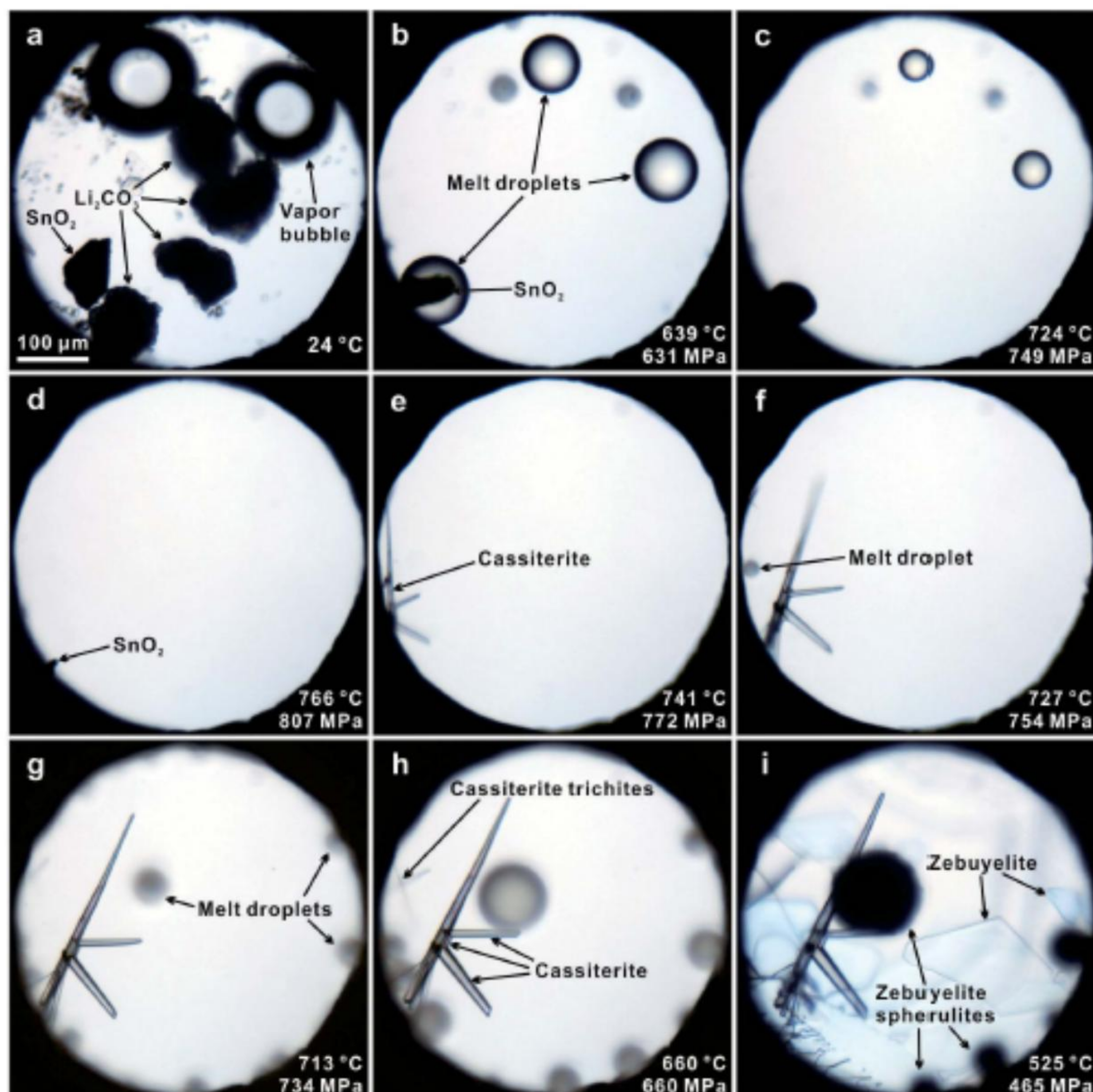
Photographs of HDAC–V, HDAC–VT, and HDAC–VII showing their different structures and dimensions; the small scale on the ruler is in mm. The horizontal size of each HDAC is noted.

Hydrothermal diamond–anvil cell

The schematic diagram of the freezing system for HDAC



Geology Application:



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