

## Thermal Stage Kit

Vibration-free sample heating and cooling stage to measure and analyze the effects of temperature on electrical characteristics of the samples.

The sample temperature between  $-30^{\circ}\text{C}$  and  $+150^{\circ}\text{C}$  is controlled via Preciso™ software. Voltage bias can be applied to the sample through an independent shielded electrical connection.

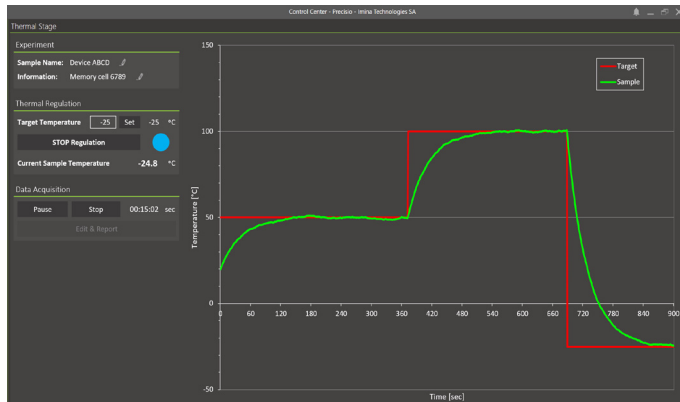
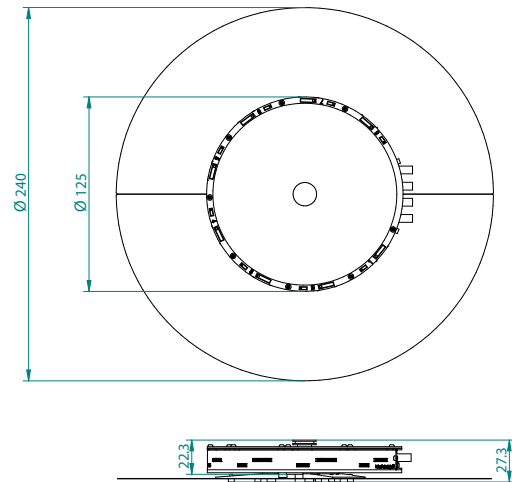
### Thermal stage specifications

Temperature range	$-30^{\circ}\text{C}$ to $+150^{\circ}\text{C}$
Temperature stability	$<0.05^{\circ}\text{C}$
Cooling mechanism	Vibration-free Peltier elements, no water or liquid nitrogen
Dimensions	$\varnothing$ 240 mm*, H: 27.3 mm
Weight	450 g (without cables)

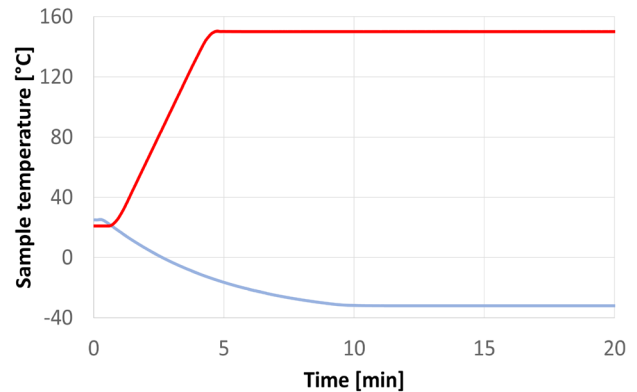
\*Diameter of the whole radiator, which can be easily bent to fit into small SEM chambers.

#### Thermal Stage Kit includes:

- Thermal stage module to be attached to a nanoprobe stage SM125;
- Thermal stage controller TSC1;
- Preciso™ thermal software module;
- A pack of 10 thermal sample stubs TSS15;
- All the required cabling to connect the device inside the SEM and to the computer.



Screenshot of the Preciso™ Thermal Software Module



Reaching stable min (blue) and max (red) temperature