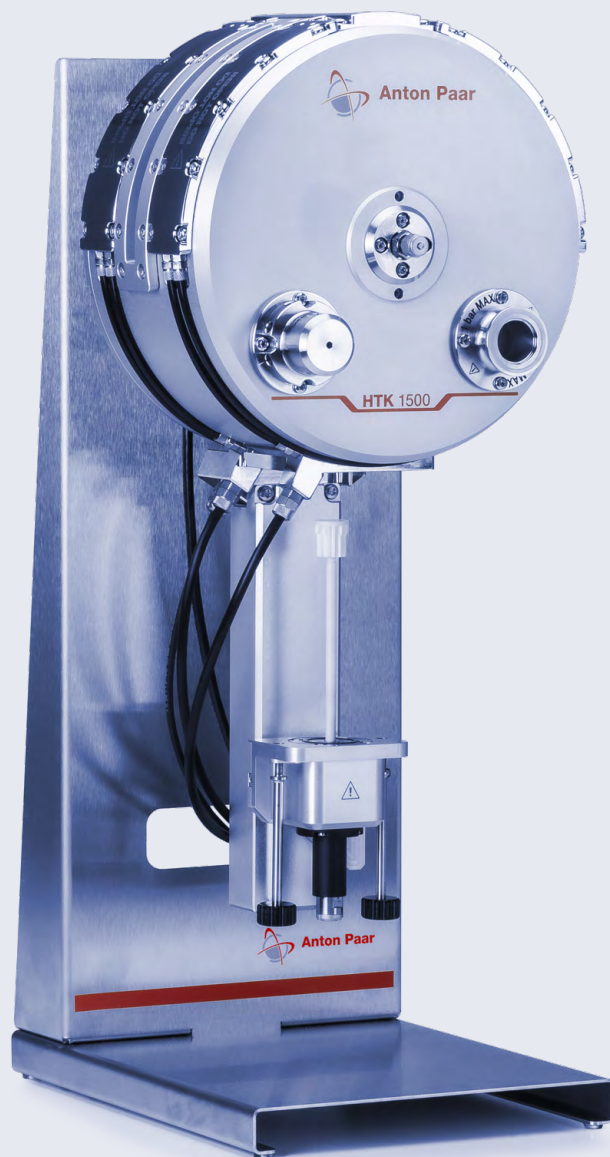


Non-Ambient XRD Attachments

HTK 1500 High-Temperature Chamber



The 'true' environmental heater, HTK 1500, guarantees the highest temperatures without compromising accuracy.

FIND OUT MORE

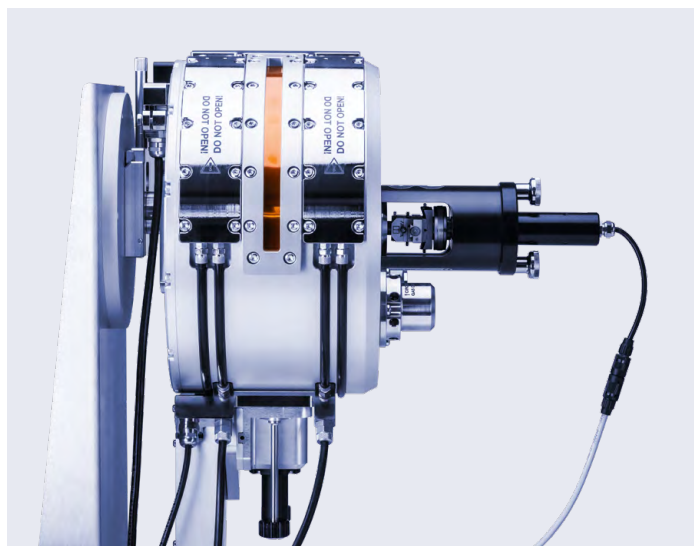


[www.anton-paar.com/
apb-htk-1500](http://www.anton-paar.com/apb-htk-1500)



Features and benefits:

- Environmental heater design for homogeneous temperature distribution in a temperature range from 25 °C to 1,500 °C, and precise temperature measurement by a thermosensor inside the sample holder
- Facilitates fast conversion from reflection to transmission mode for measurements of air-sensitive and/or organic powders using a capillary extension
- Premium design with a slider for the sample holder flange ensures easy handling and swift exchange of samples
- Chemically inert sample carriers support a wide variety of sample types
- The chamber design and the use of materials of high chemical resistance allow the user to perform measurements in different gas atmospheres
- Sample spinning option provides the highest quality XRD data
- Save time thanks to the seamless integration into XRDynamic 500 and XRDdrive control software, guaranteeing a high degree of automation with auto-recognition and auto-(re)alignment



The HTK 1500 High-Temperature Chamber is the new benchmark of environmental heaters for X-ray diffraction (XRD). It allows you to homogeneously heat all types of sample materials, including crystalline powders and bulk samples, up to 1,500 °C. The position of the heating rods, together with a highly accurate temperature measurement, makes HTK 1500 the only ‘true’ environmental heater up to 1,500 °C.

The HTK 1500 High-Temperature Chamber is the best choice for XRD experiments where high temperatures need to be measured with outstanding accuracy.

Applications:

- Define lattice parameters and coefficients of thermal expansion
- Measure temperature-induced phase changes and chemical reactions
- Observe annealing, sintering, calcination processes, and more

	HTK 1500
	↓
Temperature range	25 °C to 1,500 °C
Pressure range	10 ⁻¹ mbar to 0.5 bar rel.
Atmospheres	Air, vacuum, inert gases
Sample type	Powders, bulk samples
Sample carrier material	Corundum (inert)
X-ray geometry	Reflection and transmission