

#	Typ	temperatur range	vacuum/ inert gas	notice	contact person	Beamlines
1.	three mirror capillary furnace	22°C-1200°C	inert gas	sample:capillary	Stephan Schulze Anita Ehnes	sample environment
2.	rotated capillary heater	22°C-1200°C	inert gas	sample:rotated capillary	Stephan Schulze Anita Ehnes	sample environment
3.	two mirror capillary furnace	22°C-1000°C	vacuum/air	capillary	Stephan Schulze Anita Ehnes	sample environment
4.	Tensil/ compression with Heater	20°C-800°C	air	Tensil/compression Modul 5000N with Heater	Jozef Bednarcik Anita Ehnes	sample environment
5.	Linkam oven	-196°C - 600°C / -196°C -720°C high temperature element	inert gas	150°C/min heating / 100°C/min cooling / sample area D= 22 mm / sample manipulation 16mm in X and Y	Jozef Bednarcik Anita Ehnes	sample environment
6.	Tectra heating element inside a vacuum pipe	22°C -1200°C max temperature 1700°C	vacuum good temperature stability	sample size 20 x 20 mm / heating rate >100°C/s / fast cooling down till 300°C	Kai Schlage	P01
7.	Borel tube furnace	22°C-1400°C	inert gas	internal dimension: diamter 50mm, length 900mm / homogeneous temperature 250mm	Kai Schlage	P01
8.	FMB Oxford Hot Air blower	22°C-1000°C		max. sample distance to the blower: 3,5 mm	Ann-Christin Dippel / Hanns-Peter Liermann	P02.1
9.	STOE furnace	22°C-1000°C (Basic) 22°C- 1500°C (Extended)		heating rate 50°C/min / capillary / 2Theta range 0- 90° / temperature stability below +/-1°C /temperature controller in 19" rack / heating elements for capillaries form 0,2 to 1mm diameter / water cooling	Manuel Hinterstein/ Hanns-Peter Liermann	P02.2
10.	Anton Paar	25°C -1100°C	vacuum < 6*10 ⁻¹ mbar / inert gas	sample size max D =25 and t=2mm (max. temperature with D=15-20 and t <= 1mm) / air cooling / 500°C/min heating	Kathrin Pflaum	P08
11.	heating element on a flange (for DN160 cube) and Peltier element	22°C-450°C / 22°C - 250°C / -173°C - 100°C	vacuum		Michael Sprung	P10