

## SAXS Specifications:

<b>Component</b>	<b>Specification/Details</b>
Instrument	Small Angle X Ray Scattering System (SAXS Point 5.0)
Manufacturer	Anton Paar GMBH Austria
Model	SAXS Point 5.0
X-Ray Source	Primux 100 micro focus (Cu X-ray source)
Beam Optics & Collimation	ASTIX Scatter less optics with fully evacuated beam path, automated beam collimation; low background scattering and high signal-to-noise ratio
Sample-to-Detector Distance	Adjustable 1500 mm
Sample Stages	Temperature-Controlled (TC) stages, GISAXS stage, Multisampler Stage, ASX autosampler for up to 192 liquid samples.
Accessible q range	0.01 nm <sup>-1</sup> to 49 nm <sup>-1</sup>
Sample Types	Liquid samples, Polymeric Solutions, Colloidal dispersions, Powders and solid samples
Temperature Range	-150 °C to 350 °C
Software	SAXS DRIVE AND SAXS ANALYSIS  SASX DRIVE is for controlling the instrument and data acquisition  SAXA ANALYSIS is used to process the acquired data from the instrument.
Cooling system (Chiller)	Dedicated recirculatory water chiller fitted in the SAXS table rack for stable X Ray source operation and heat management
Control Unit	Central system control unit for instrument operation, safety monitoring and component synchronization
Sample Environment	Samples remain in high vacuum, Temperature Controlled stage, flow through cells, Cryo modules, and in situ accessories
Detector	2D HPC EIGER2 R 1M is mounted on slide master movable along the X Ray beam.