

## HEATING AND COOLING STAGES

### TX102W MICROSCOPE THERMAL STAGE

#### Features:

- Peltier-Based Thermal Microscope Stage Accommodates
- Up to 1.5"X2.0" Sample Size
- Programmable Precision Temperature Control from -30°C to 100°C with 0.1°C Temperature Precision
- Controlled Fast Heating and Cooling Rate
- Large Viewing Window
- Wide Incident Angle
- Optional Spacer to Increase Sample Chamber Height
- Optional XY Positioner to Move Sample inside The Stage
- RS232 Communication Port Included in Basic System with Windows Based Software
- Optional IEEE488 Communication Port with Free LabVIEW Driver



#### Technical Specification

Temperature Control Sensor	Platinum RTD
Control Method	PID, variable DC power output
Temperature Range	-30°C to 100°C
Temperature Resolution	±0.1°C
Temperature Stability	±0.1°C at 37°C
Minimum Heating and Cooling Rate	±0.1°C/Hour
Maximum Heating Rate	+50°C/Min. at 37°C
Maximum Cooling Rate	-50°C/Min. at 37°C
Minimum Working Distance	6.4 mm
Minimum Condenser Distance	10 mm
Sample Chamber Height	3.18mm
Sample Area	1.5"X2" (38mm X 50mm)
Viewing Window (Reflected Light)	38 mm diameter
Incident Angle	60°



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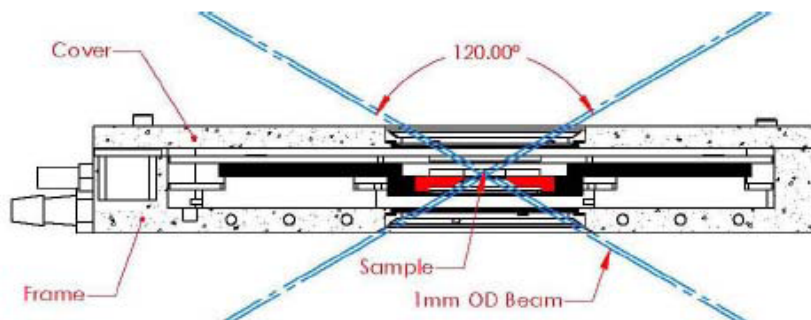
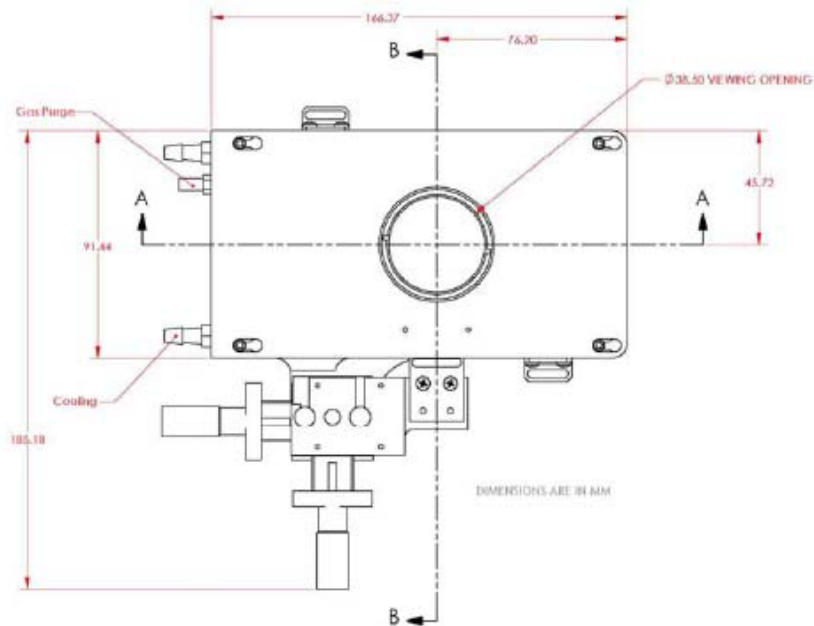
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## TX102W MICROSCOPE THERMAL STAGE

### Outside Demension and Cross Section View



### Ordering information

Part Number	Description
TX102W-STC21A	TX102W microscope thermal stage with a STC200 controller configured for the stage, including a Water Pump WP115V for frame cooling. 115V Input voltage. RS232 and Window based software included
TX102W-STC21U	TX102W microscope thermal stage with a STC200 controller configured for the stage, including a Water Pump WP230V for frame cooling. 230V Input voltage. RS232 and Window based software included
XY-TX102W	The micrometer XY translator set for TX102W thermal stage to move the sample inside the stage
IEEE-STC200	The IEEE488 port for STC200 with sample LabView driver.