

- Versatile stage with streamlined design for long duration experiments without additional fluid cooling systems
- -40°C - 120°C with thermoelectric heating and cooling
- XY sample positioning
- Sealed chamber with gas purging or vacuum capability

STRUCTURAL FEATURES

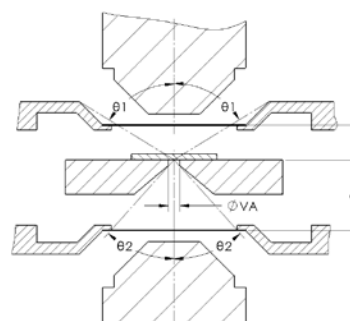
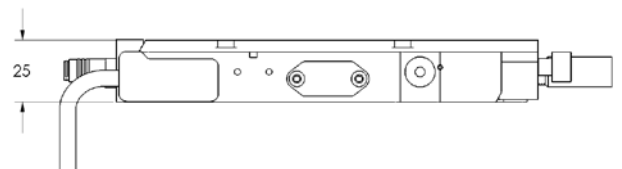
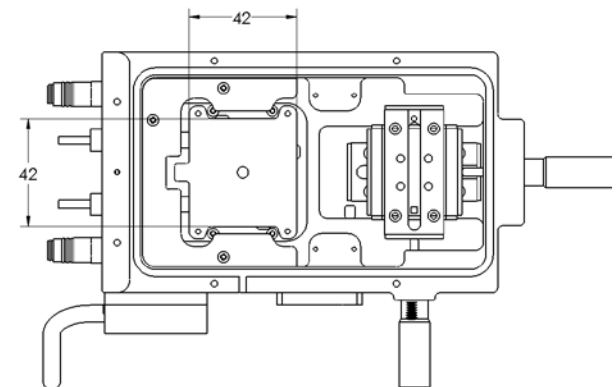
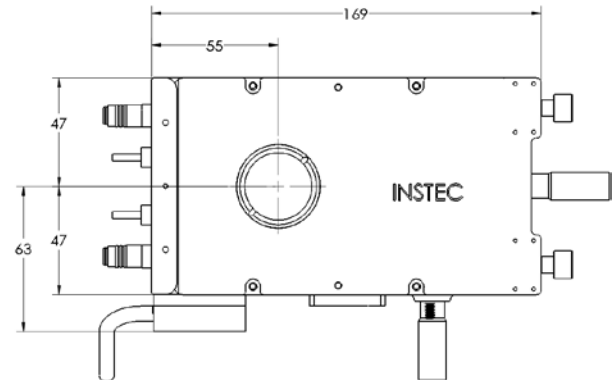
Sample Area	42 mm x 42 mm
Chamber Height	3.5 mm without removeable inner cover
	2.0 mm with removeable inner cover
Sample Positioning	10 mm fine travel with Vernier XY dials for remote manipulation in closed chambers
Frame Cooling	Integrated frame cooling with optional recirculating water chiller system
Mounting	Horizontal
Frame Dimensions	169 mm x 96 mm x 25 mm
Weight	800 g (G) / 900 (V) aluminum body

OPTICAL FEATURES

Optical Access	Reflection and transmission capability
Optical Windows	Removable and exchangeable windows permit full-spectrum transparency
Minimum Objective Working Distance	5.6 mm
Minimum Condenser Working Distance	13.6 mm
Top Window	27mm diameter
Top Viewing Angle	±60° from normal
Transmission Aperture	5 mm diameter
Bottom Viewing Angle	±13° from normal
Window Defrost	Integrated external window defrost

THERMAL FEATURES

Temperature Control	mK2000 with programmable precision switching PID method
Thermal Block	Black anodized aluminum
Sample Thermal Cover	Removable Inner sample cover with additional window
Temperature Minimum	-30C with optional chiller -40C optional
Temperature Maximum	120°C
Temperature Sensor	100 Ω Platinum RTD
Maximum Heating Rate	+60°C per minute at 37°C
Maximum Cooling Rate	-20°C per minute at 37°C
Minimum Heating and Cooling Rate	±0.1°C per hour
Temperature Resolution	0.01°C
Temperature Stability	±0.05°C
Power Supply	Universal power input
Software	Windows software to record and export temperature-time data



TS102GXY	
WD	5.6
CWD	13.6
VA	4.5
θ1	60°
θ2	13°