

- Classic thermoelectric stage for inverted microscope operation
- -25°C - 90°C with thermoelectric heating and cooling
- Specific design for samples in Petri dishes up to ϕ 40.5 mm
- Sealed chamber with gas purging capability
- Streamlined design for long duration experiments without additional fluid cooling systems

STRUCTURAL FEATURES

Sample Area	40.5 mm diameter to fit 35 mm Petri dishes
Chamber Height	10.4 mm without removeable inner cover 11.7 mm with removeable inner cover
Frame Cooling	Integrated frame cooling via hose barb ports with optional chiller system
Mounting	Horizontal and vertical mounting capability
Frame Dimensions	159.8 mm x 109.8 mm x 39.5 mm
Weight	1000 g

OPTICAL FEATURES

Optical Access	Reflection and transmission capability
Optical Windows	Removable and exchangeable windows permit full-spectrum transparency
Minimum Objective Working Distance	5.4 mm
Minimum Condenser Working Distance	22.8 mm
Top Window	27 mm (outer ϕ), 20 mm (inner ϕ)
Top Viewing Angle	$\pm 31^\circ$ from normal
Transmission Aperture	12 mm diameter
Bottom Window	38.5 mm (outer ϕ), 12 mm (inner ϕ)
Bottom Viewing Angle	$\pm 68^\circ$ 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	-25°C (with 5°C frame cooling)
Temperature Maximum	90°C
Temperature Sensor	100 Ω Platinum RTD
Maximum Heating Rate	+12°C per minute at 37°C
Maximum Cooling Rate	-10°C per minute at 0°C
Minimum Heating and Cooling Rate	$\pm 0.1^\circ\text{C}$ per hour
Temperature Resolution	0.01°C
Temperature Stability	$\pm 0.05^\circ\text{C}$
Power Supply	Universal power input
Software	Windows software to record and export temperature-time data

