

Thermal Platform

Product Overview



TotalTemp Technologies provides cryogenic and mechanically refrigerated thermal platforms that deliver rapid, precise temperature control via direct conduction heat transfer on a flat, thermally conductive surface. This design is optimized for low profile, flat based components including RF devices, amplifiers, attenuators, circulators, isolators, and other electronic assemblies.



Standard Cryogenic



Mechanically Refrigerated Remote Platform Configuration



Independent Dual Zone Vertical Configuration

Features and Options:

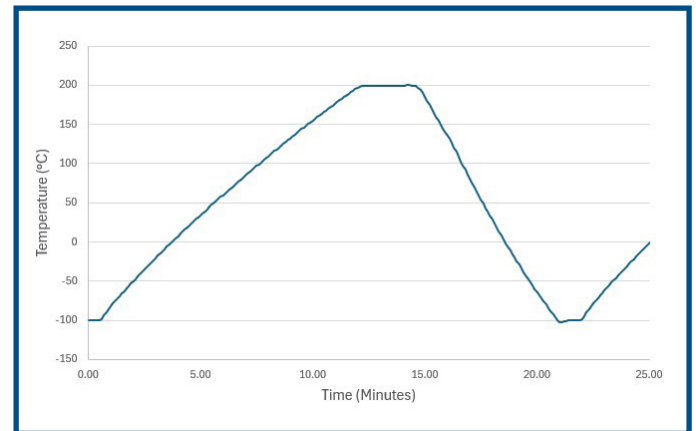
- Compact footprint and easy DUT access
- Available in different sizes
- Dual zone control in vertical & horizontal configurations
- Built-in thermal failsafe system
- Redundant fail-safe option
- Probing cover, automated purge, & adapter plate
- Fully featured, Touch-screen controllers
- IEEE-488 GPIB, RS232/485 Modbus RTU, Ethernet, Telnet, web server
- Cascade smart temperature control algorithm

Cryogenic Thermal Platform Specifications

Temperature Range	-100°C to +200°C (L-N ₂)
	-65°C to +200°C (L-CO ₂)
	Extended temperature range available
Temperature Transition Rate	Cooling: typical 40°C, up to 85°C/minute (Custom)
	Heating: typical 20°C, up to 92°C/minute (Custom)
Temperature Control Tolerance	±0.1°C
Temperature Uniformity	±0.5°C maximum
Power Requirement	100-240V / 50-60Hz / 1PH / 15-30A max
	CE marking available

Mechanically Refrigerated Thermal Platform Specifications

Temperature Range	SC Single Stage Model: -40°C to +175°C
	SCC Cascade System: -70°C to +175°C
Temperature Transition Rate	Cooling: up to 4-12°C/minute
	Heating: up to 12-30°C/minute



L-N₂ Platform Transition Rate (Typical)

