

## Imperium Thermal Control System



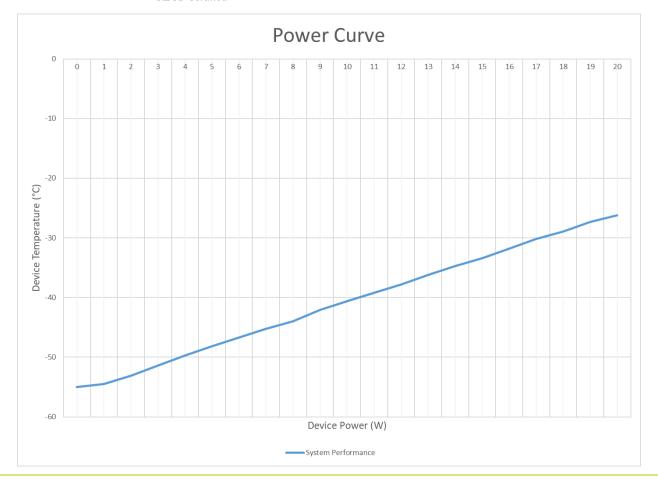
Developed specifically for low power applications, Ironwood Electronics' IMPERIUM Thermal Control System integrates seamlessly with Ironwood's test sockets and can be easily adapted to all sockets, providing exceptional thermal control in demanding applications. Building upon Ironwood's leadership and expertise in high performance sockets, Imperium provides a smaller footprint, less noise, greater flexibility, and lower cost when compared to typically oversized systems for bench-top use.

## FEATURES AND BENEFITS



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Temperature Range	-55°C to 150°C
Cooling Power	10 W @ -40°C
Temperature Stability	0.2°C
Temperature Accuracy	0.2°C
Temperature Sensor	NTC Thermistor
Transition Rates	Up to 60°C/min
Remote Interface	Serial -232 over USB-B
Fully Automated DUT Pressure Force	System controlled up to 80 kgf
DUT Dimensions	1.5 x 1.5 mm to 35 x 35 mm (standard head)
System Requirements	
Electrical	115 - 250 Vac, 6 A max, Single Phase
Ambient Temperature	0°C to 30°C
Ambient Humidity	<90%
Dry Air (to avoid condensation)	<0.5 CFM @ 90 PSI
	-55°C dew point
Dry Air Input	6 mm OD Standard Tube
Mechanical Dimensions	
Chiller/Controller Dimensions	410(D) x 282(W) x 150(H) mm
	16.2 x 11.1 x 5.9 in
Weight (System) (Head)	(8.7 kg) (1.4 kg)
Thermal Head (mm) (Current Design)	70 x 70 x 60 mm
Thermal Head Hose Length	1 - 2.5 m, Some thermal loss at lengths > 1.5m
Sound Level	45-55 dBA avg (64dBA max)
CE/CB Certified	



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