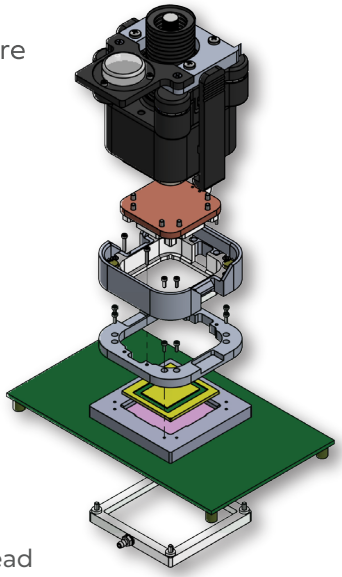
ECO Cool® Economical Powerful - Thermal Forcing System.
Exceptionally Powerful, Economical & Reliable

ECO Cool
-30°C - 200°C
0°C @ 200W

MD Thermal control units were designed with high efficiency and flexibility in mind, allowing for customization to suit different package and interface variations. The system allows for temperature forcing across a wide range of device sizes and types, whether socketed or soldered to the board. With state of the art design and technology MD units stimulate the DUT to the desired temperature precisely and consistently via direct contact with a thermal head's tip.

The well proven thermal head methodology creates a stable temperature control environment right where you need. The pneumatically driven thermal head makes direct contact with the IC device providing great power handling and precise temperature control.

The ECO COOL was designed to be an economical solution, to maintain low temperature of high power devices. It is designed to fit 19" rack cabinet 7U.

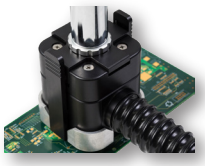


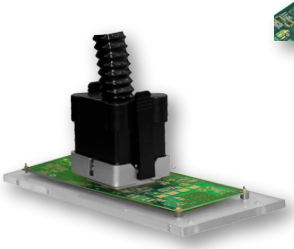
Right angle actuator head

Available Options:
- Clip-on actuator
- Manual actuator
- Toggle clamp
- Boom stand
- Enclosures
- Customized fixtures

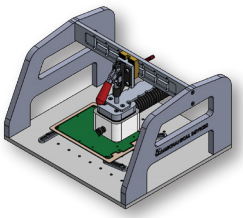
Applications:
- ATE, SLT and bench
- High reliability testing
- LN2/thermal stream/chiller replacement
- OEM integrations

Features:
- Temperature range -30°C to +200
- Cooling power 0°C @ 200W (Tc)
- Temperature stability 0.2°C
- Self-contained liquid free operation
- Quiet and portable
- Adapt to most packages and sockets
- Condensation FREE
- Maintenance FREE
- Remotely controlled via an ethernet
- Fully programmable for automation
- Tj and Tc control
- Environmentally friendly operation

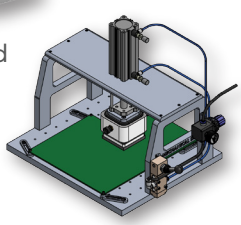




Axial actuator head



Toggle clamp unit



Manual actuator

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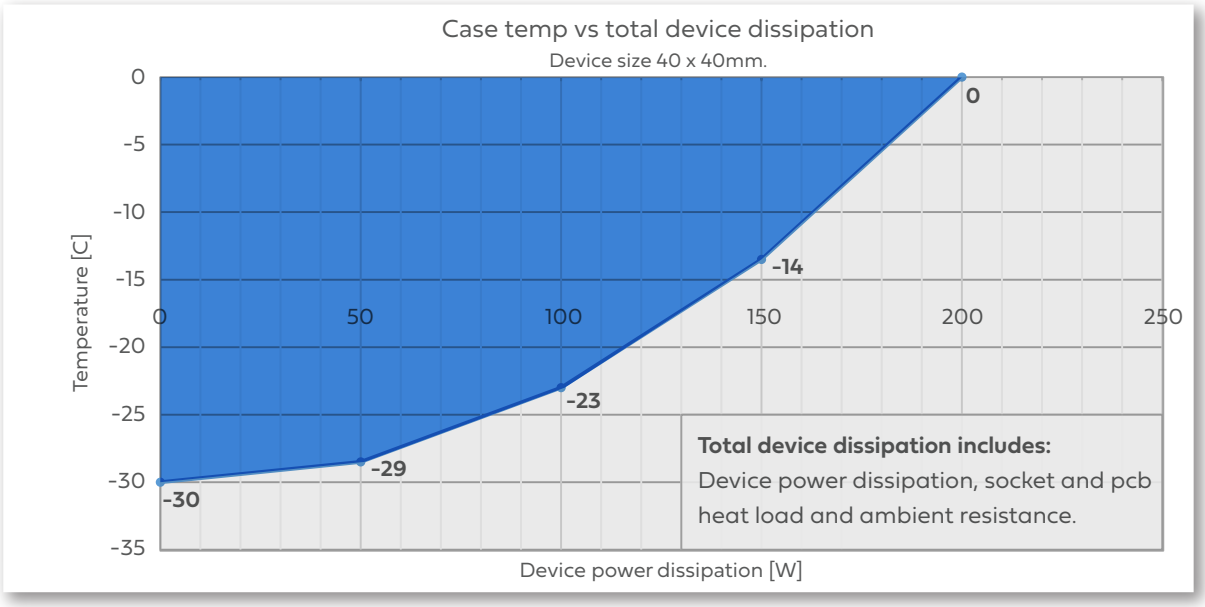


System Specifications:

Operating

Temperature range	-30°C to +200°C
Temperature accuracy	±0.2°C
Transition rates	Up to 75°C/min
Temperature sensor types	PT100 thermistor K-type thermocouple Thermal diode feedback
Actuation type	Pneumatic clip-on actuator
Actuation force	70 - 220 Kgf

Facilities

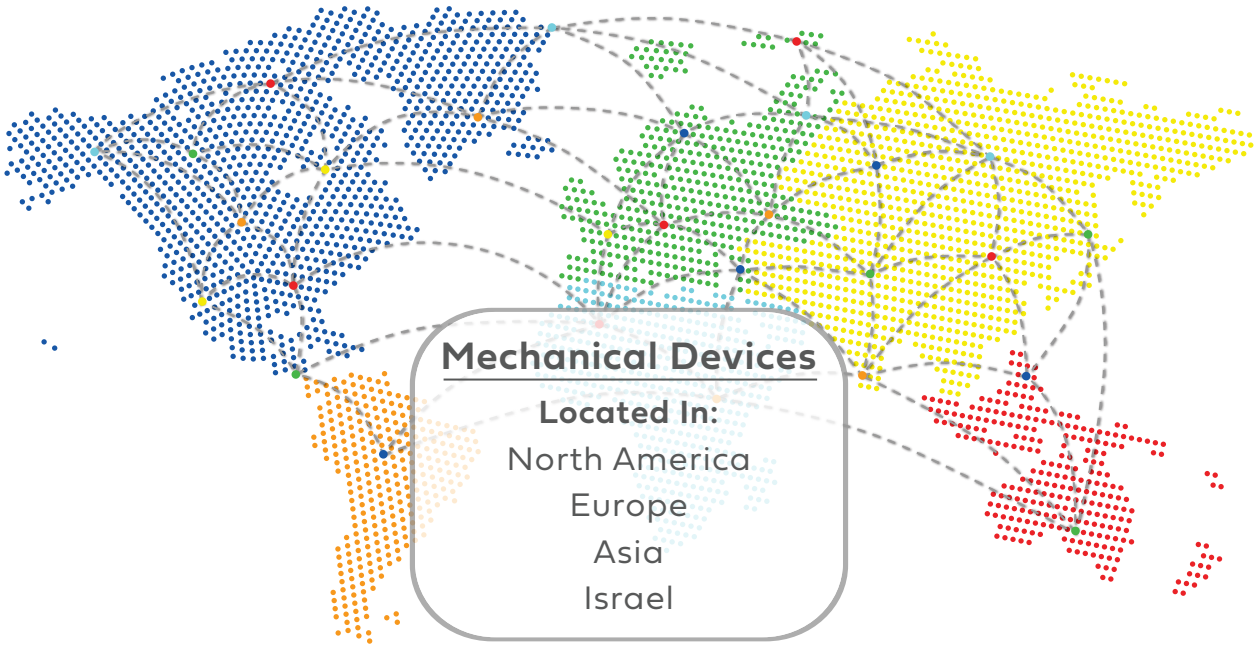
Power	200V-240V AC 50/60Hz, 16A max
CDA	<0.5 CFM @ 0.05 - 0.2MPa (0.5-Bar)
Dew point	-30°C
Operating temperature	-10°C to 30°C
Plug	Nema L6-20/30

Mechanical Data

System size (WxHxL)	450mm x 310mm x 495mm 19" rack, 7U
System weight	40 Kg
Thermal head (mm)	73 x 43 x 73
Controller to TH distance	~2 meter (6.5ft)

Data Communication

Ethernet TCP/IP	RJ-45
USB	Type B
Touch screen display	7" LCD



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