



MaxTC - High-Power Temperature Forcing System: High cooling power 70W@-40°C/185W@0°C From -65°C to +175°C / +200°C

MaxTC is the most cost effective system in the market due to its low cost, and high performance.

MaxTC Thermal Forcing System stimulates DUT to the desired temperature by direct contact/conduction between a thermal head's plunger and the DUT. Soldered down or socketed DUT's are accessed through a selection of interfaces such as adapter plates, boom stands, vacuum and pneumatic systems.

Powerful stand-alone Thermal control unit, Features:

- ✓ Greatest cooling power 70W@-45°C
- ✓ Extended temperature range enable to reach easily -40°C or less at Tj
- ✓ Fastest time to temperature ratio
- ✓ Very short stabilize soak time
- ✓ Excellent temp. stability 0.2°C
- ✓ operated by a smart controller which is accessed through a 7" color touch-screen with extensive menu
- ✓ can be remotely controlled via an Ethernet



MaxTC is a stand-alone, plug and play Unit, requires only:

- ✓ 220-240VAC, 16A, 50Hz, 1 phase wall outlet
- ✓ Clean dry air or nitrogen for condensation free operation during cold testing.

MaxTC System suits your device test at:

- ✓ Your test bench, or
- ✓ ATE in your lab. & can be seamlessly integrated in production with handlers and ATE's.
- ✓ MaxTC can also be used to test multi-site DUT's,
- ✓ Also as a thermal chuck with probe station.

MaxTC with 'Clip-On' & Z axis integrated

- ✓ Robust and small footprint
- ✓ Setup is very fast and convenient using the clip connects.
- ✓ Precise and consistent force, contact and thermal conductivity.
- ✓ Touch screen for accurate actuating force control in Kgf, (can be remote controlled)
- ✓ Fast and simple to attach and detach the thermal head using the clip connect.
- ✓ Adaptable for variety of soldered and socketed devices (2mm to 45mm).
- ✓ Compressed air supply is ONLY required. (80PSI maximum, 4mm air pipe hose)
- ✓ Ideal for bench testing, ATE and productive test engineering



System General

Temperature Range	-65°C to +175°C /200°C
Temperature Accuracy	±0.5°C
Typical Transition Rates	25°C to -40°C in <2min 125°C to 25°C in <2min
Temperature Sensor	Tcase PT100 Thermistor K-type thermocouple Thermal-diode through ethernet port Thermal-diode through analog port Ethernet (TCP/IP)
System Indicators and Fail-safes	Thermal head over-temperature, fan operation, cooling unit operation
DUT Pressure Force	2 - 100 Kg/Force
DUT Dimensions	≥ 2 x 2 mm
DB Rating	55 dBA
MTBF	70,000 hr

Mechanical Dimensions

System Enclosure mm / inch	(L) 555mm x (W) 450mm x (H) 300mm (L) 21.8" x (W) 17.7" x (H) 11.8"
System Weight	52 kg
Thermal Head (mm)	80mm diameter
Thermal Head Hose	2 meter (6.5ft) standard 3 meter (10ft) max

System Requirements

Electrical	220/230/240 VAC ±10% 50/60 Hz, single phase, 10A max.
Purge	0.2-0.6[BAR] dry air/ dry Nitrogen
Ambient Temperature	5°C to 35°C (40°F to 95°F)
Ambient Humidity	20% to 95% RH

Features:

- Condensation FREE at cold test
- Maintenance FREE system
- Fully programmable with MATLAB, Lab VIEW, C++, VB, Linux, Python.
- Cost effective due to low cost and high performance
- Vibration FREE contact
- Magnetic field FREE contact
- PID overshooting control
- Stand-alone plug and play system
- No external chiller or compressed air is required
- Software controlled transition rates
- Suitable for testing any socketed or soldered devices
- Environmentally friendly operation
- ESD safe product
- Min and Max temperature safety lock
- Can be seamlessly integrated with handlers and ATE.

