

Low cost of ownership

*Flex***TC 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 21W@-45℃
- ✓ 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

FlexTC 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.

FlexTC 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.
- ✓ FlexTC can also be used to test multi-site DUT's,
- \checkmark Also as a thermal chuck with probe station.
- ✓

FlexTC 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)
- \checkmark Fast and simple to attach and detach the thermal head





Mechanical Devices

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System General

Temperature Range Temperature Accuracy Typical Transition Rates

Temperature Sensor

System Indicators and Failsafes

DUT Pressure Force DUT Dimensions DB Rating MTBF

Mechanical Dimensions

System Enclosure mm / inch

System Weight Thermal Head (mm) Thermal Head Hose

System Requirements

Electrical

Purge Ambient Temperature Ambient Humidity -55°C to +155°C ±0.5°C 25°C to -40°C in <4min 125°C to 25°C in <2min Tcase PT100 Thermistor K-type thermocouple Thermal-diode through ethernet port Thermal-diode through analog port Ethernet (TCP/IP) Thermal head over-temperature,

fan operation, cooling unit operation 2 - 100 Kg/Force ≥ 2 x 2 mm 40 dBA 70,000 hr

(L) 420mm x (W)320mm x (H)220mm
(L) 16.5" x (W) 12.5" x (H) 8.5"
22 kg
80mm diameter
2 meter (6.5ft) standard
3 meter (10ft) max

100/115/120/220/230/240 VAC ±10% 50/60 Hz, single phase, 10A max. 0.2-0.6[BAR] dry air/ dry Nitrogen 5°C to 35°C (40°F to 95°F) 20% to 95% RH

Features:

• Condensation FREE at cold test

- Maintenance FREE system
- Fully programmable with MATLAB, Lab VIEW, C++, VB, Lynux, 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.

