



# Flex TC

- ✓ Laboratory, Benchtop Temp. Forcing System
- ✓ Cooling power 21W@-45°C
- ✓ From -55°C to +155°C

Flex TC Actuators: (Optional)



180 Angle head



Right angle head

FlexTC is high-performing, reliable, self-contained, compact, and extremely economical system.  
Low cost of ownership



**FlexTC 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@-40°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

### Flex TC is a stand-alone, plug and play Unit, requires only:

- 50/60Hz, single phase, 10A wall outlet
- Clean dry air or nitrogen for condensation free operation during cold testing

### Flex TC System suits your device test at:

- Your test bench
- 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

### Flex TC 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

## System General

Temperature Range	-55°C to +155°C
Temperature Accuracy	±0.5°C
Typical Transition Rates	25°C to -40°C in ~<4min 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 Failsafes	Thermal head over-temperature fan operation, cooling unit operation
DUT Pressure Force	2 - 100 Kg/Force
DUT Dimensions	≥ 2 x 2 mm
DB Rating	40 dBA
MTBF	70,000 hr

## Mechanical Dimensions

System Enclosure mm / inch	(L) 420mm x (W)320mm x (H)220mm (L) 16.5" x (W) 12.5" x (H) 8.5"
System Weight	22 Kg
Thermal Head (mm)	80mm diameter
Thermal Head Hose	2 meter (6.5ft) standard

## System Requirements

Electrical	100/115/120/220/230/240 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

## Product features

- Condensation FREE at cold test
- Maintenance FREE system
- Fully programmable with MATLAB, Lab VIEW, C++, VB, Lynux, Python & others
- 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.

