



FlexTC - High-performance, reliable, self-contained, compact, and extremely economical system, with low cost of ownership.

Flex TC

- ✓ Laboratory, benchtop Temp. forcing system
- ✓ Cooling power -40°C @21W
- ✓ From -55°C to +155°C



FlexTC's thermal conduction cooling and heating system stimulates the DUT to the desired temperature by direct contact between the thermal head plunger and the DUT. The solution is suitable for soldered components or sockets through a variety of interfaces such as adapter plates, boom stands, vacuum applications and pneumatic systems.

Powerful stand-alone thermal control unit, features:

- Great cooling power -40°C@21W
- Extended temperature ranges easily reaches -40 ° C and less at Tj
- Fast time to temperature ratio
- Very short soak time stabilization
- Excellent temperature stability 0.2°C
- Powered by a smart controller accessible via a 7-inch color touchscreen with an extensive menu
- Remotely controlled via an Ethernet

Flex TC actuators: (optional)



180 angle head



Right angle head

Flex TC Flex TC is a plug and play unit, requires only:

- 50/60Hz, single phase, 10A wall outlet
- Cold testing free from condensation

Flex TC systems are suitable for testing your devices at:

- Your testing bench
- ATE's in your lab and integrates in production seamlessly with handlers
- MaxTC can also be used for testing multi-site DUT's
- Used as a probe station with a thermal chuck

Flex TC with a Clip-On and Z axis integrated:

- Robust and small footprint
- Setup is convenient and very fast using clip connections.
- Applies precise and consistent force contact and thermal conductivity.
- Accurate actuating force (Kgf) controlled from a touch screen or remotely
- Simple and quick connection and disconnection of 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, Linux, 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
- External chiller or compressed air is not 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.

