

FlexTC - The Ultimate Benchtop Thermal Solution

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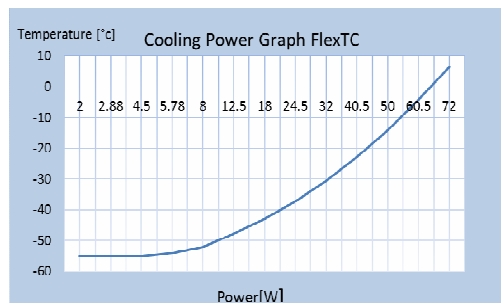
BENCHTOP TEMPERATURE FORCING SYSTEM for thermal cycling of DUT from -55°C to +155°C

The FlexTC was designed to meet the stringent standards set by the semiconductor industry for failure analysis and device characterization within chip debugging, fabless companies, testing laboratories, and startups. Using an advanced and patented technology, FlexTC offers fast, accurate, stable, and cost effective solutions to meet this demand.

FlexTC thermal system stimulates DUT to the desired temperature from -55°C to 155°C by direct contact/conduction between a thermal head's plunger and the DUT. Soldered down or socketed DUTs are accessed through a selection of interfaces such as adapter plates, boom stands, vacuum and pneumatic systems.

FlexTC is a stand-alone, compact, portable, and quiet system that is economical to own and operate. The system requires only 110VAC 10A wall outlet and clean dry air or nitrogen for condensation free operation during cold testing. The system is energy efficient due to its low power consumption of 2.2KW/h. FlexTC offers fast cooling rates and

cooling power of 21W@40°C, and it is generally used for low power devices. The system is magnetic field and vibration free. A true plug and play system, the FlexTC is completely maintenance FREE.



The FlexTC guarantees condensation free operation, thus eliminating the risk of fluid leakages that might severely damage expensive test equipment. The FlexTC is operated by a smart controller which is accessed through a 7" color touch-screen with extensive menu options and user friendly interface. For additional flexibility the system can be remotely controlled and programmed through an Ethernet communication port.

Features

- **Temperature range:** -55°C to 155°C
- **Time to temperature (at Tcase):** 25°C to -40°C in < 2 min; 25°C to 85°C in < 2 min
- **Temperature accuracy:** ±0.2°C
- **Temperature stability:** ±0.1°C
- **Condensation FREE** at cold test
- **Maintenance FREE** system
- **Fully programmable** with Lab VIEW, C++, MATLAB, VB, TICKLE, Perl, Linux, Python etc.
- **Cost effective** due to its low cost and high performance
- **Vibration FREE** contact
- **Magnetic field FREE**
- **PID overshooting control**
- **Stand-alone plug and play** system
- **No external chiller or compressed air** required
- **Software controlled transition rates** up to 50°C/min
- **Suitable for testing socketed and soldered** devices
- **Environmentally friendly** operation
- **ESD safe** product
- **Min and Max temperature** safety lock
- **Can be seamlessly integrated** with handlers and ATE testers

