



NEW PRODUCT RELEASE

This Advanced System Combines Thermal Conduction & Convection

In one incredibly fast and efficient stress testing design!!!

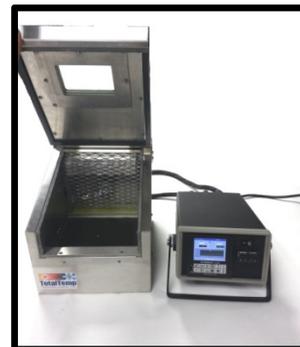
TotalTemp Technologies offers an effective alternative to traditional Thermal Cycling Testing. The first true dual mode Temperature Chamber/Thermal Plate combination called the Hybrid Benchtop Chamber. The floor of the Chamber is a completely functioning Hot/Cold Plate. Gain the benefits of both, added speed and convenience of benchtop thermal testing, faster environmental simulation and cost effective production throughput

HBC-144 *Hybrid* Benchtop Chamber



HBC Interior Dimensions: 13" W x 13" D , Height is 8.5" The floor is a SD144 Thermal Platform 12" x 12"

Original HBC-49 *Hybrid* Benchtop Chamber



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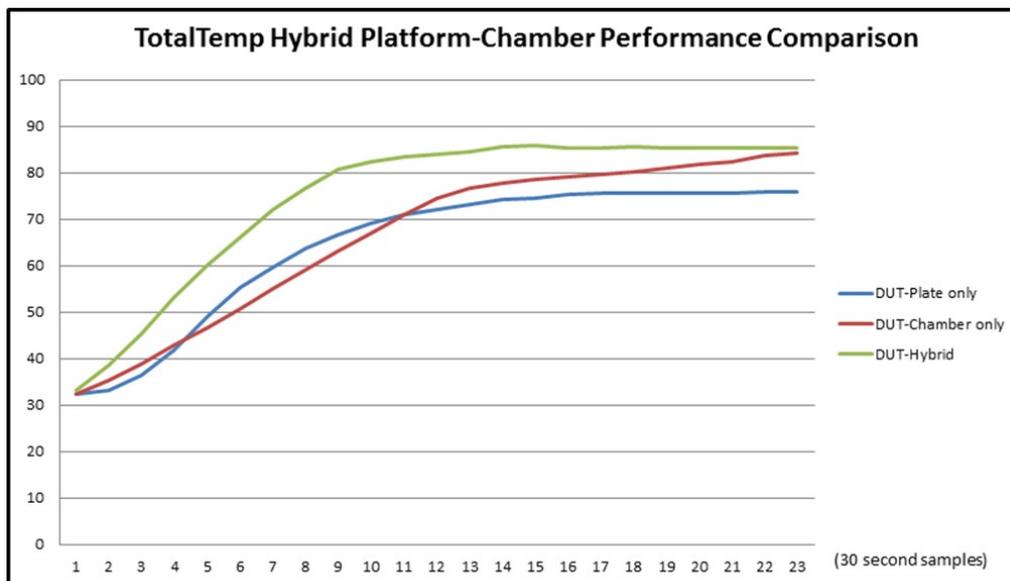
Hybrid Benchtop Chamber Has Performance Results

Thermal testing is an important part of electronic manufacturing for reliability and design. There are a variety of advanced products for thermal testing.

Temperature Chambers are extremely versatile and useful but are often slow, with less efficient thermal transfer and consume large space and utilities footprint.

Thermal Platforms are faster, have more efficient thermal transfer, accessible and conveniently work on a benchtop. Thermal gradients however can be an issue and often items that don't have a good flat thermally conductive surface are not as well suited to testing on a thermal platform.

Hybrid Benchtop Chambers TotalTemp Technologies is presenting a completely innovating series of advancements. The best features of Temperature Chambers and Thermal Platforms together to maximize performance and control. With cryogenic cooling (L-N₂ or L-CO₂) and the lower energy use of 120VAC, it also reduces excess heating load to facilities.



Basic operation mode, the **Hybrid Benchtop Chamber** demonstrates a significant improvement in thermal test performance. The fully featured “Synergy Nano Temperature Controller” is capable of controlling Platform temperature and air temperature independently or together. The controller is capable of advanced temperature control algorithms can allow even better performance by monitoring DUT temperature and allowing air and platform temperatures to be carefully controlled while verifying (and logging to file or plot) that required DUT temperatures are achieved. Thermal stress in the form of applying two different temperatures at the same time is also easily accomplished.



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