



## ***New Product News Release***

### **High Capacity Thermal Testing Makes it to the Smaller Lab with Fast, Portable Temptronic TP4500!**

For immediate release  
Temptronic Corporation  
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Sharon, MA., USA - - Thermal testing as high as +225°C and as low as -45°C was once restricted to larger production facilities and laboratories with more extensive compressed air and electrical resources. Temptronic is changing this completely with the introduction of the new TP4500 ThermoStream® System, the high capacity thermal airstream that operates on 110VAC (or 208VAC) and minimal compressed air requirements. No LN<sub>2</sub> or CO<sub>2</sub> is required. The benchtop TP4500's compact design and portability make it an ideal thermal solution for device characterization, thermal cycling and failure analysis at production facilities or any smaller test/research lab. Its portability also makes it easily shared among different labs in larger facilities.

The TP04500's high airflow rate (adjustable up to 10 scfm) at all temperature setpoints from -45° to +225°C enables users to test devices of any size and power dissipation, from small NAND Flash to larger FPGAs, BGAs and high power devices. The system provides fast temperature transitions (-40° to +125°C in less than 12 seconds) for high throughput.

Direct temperature control at the device case is accomplished by placing a thermocouple at the device case and the system provides for K and T type thermocouple sensors. The system is also fully programmable, enabling the operator to create and save a series of thermal cycling sequences, including ramp rate, soak time, number of cycles, and "AT Temperature" Window. The TP4500 can be operated at the front panel or remotely via IEEE-488 and RS232 remote interfaces.

Providing high thermal capacity for a very small footprint, the TP04500 is on castors for easy portability while the controller and thermal head clamp conveniently to the benchtop, requiring minimal workspace. The Flexible Hose allows for full range of motion when positioning the thermal head at the test site and Pneumatic Control for raising and lowering the TP4500 thermal head make the system easy to operate for all users. The compact refrigeration module tucks neatly beneath the workstation.

The TP4500 is a milestone for Temptronic as it brings a new level of thermal testing to engineers and production facilities that may not have the extensive utilities and budget formerly required for testing over a wider temperature range and at higher capacity and throughput. This system also completes the ThermoStream® product line as Temptronic has been a worldwide leader in higher capacity ThermoStream Systems (-90°/+225°C) and ThermoChuck Systems (-65°/+300°C) for over 30 years.

Temptronic Corporation, an inTEST Company (Nasdaq: INTT), is a worldwide leader in the design, manufacture and worldwide support of localized thermal test systems. For more information about the TP4500 ThermoStream® or any of our temperature control systems, please contact Temptronic, 4 Commercial St, Sharon, MA. 02067, USA, Telephone:(781) 688-2300, [www.temptronic.com](http://www.temptronic.com), email: [sales@temptronic.com](mailto:sales@temptronic.com).

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