

## THERMONICS MODEL T-2600BV PRECISION TEMPERATURE FORCING SYSTEM

**Convenient Bench-Top Package - No Mechanical Refrigeration or LN<sub>2</sub> Required!**



**Thermonics T-2600BV** Precision Temperature Forcing System (PTFS) is typically used for hot and cold testing of semiconductor, hybrid and other small components. The unit provides an economical, low-cost alternative to systems that use mechanical refrigeration or LN<sub>2</sub> as the cooling mechanism. The temperature range is -30C to 225C.

The unit is compact and portable. The smaller size enables its use in applications where traditional temperature forcing systems may be impractical due to weight and size constraints or the low volume nature of the application. The system weighs 50 lb. (22 kg.).

**Vortex Technology** provides the cold air source via the vortex thermal head, which adapts the PTFS to the device under test. This unique mechanism for delivering temperature-controlled air is very reliable and safe with the added benefit of not using CFC s. Silicon rubber thermal caps provide an inner chamber that enhances fast and accurate temperature control.

### **Integrated Vortex Thermal Head and Arm**

provides easy positioning and precise placement of the vortex thermal head over the device under test. Various physical setups, such as direct testing of a socketed device on an ATE system, can be easily accommodated. The head may be raised or lowered by pressing a button on its side, stepping on an optional foot switch, or sending a remote command over the IEEE-488 or RS-232C interface.

**Operator Interface** elements are well placed and easy to access on the front control panel. The user interface contains a eighty character alphanumeric display and a data-entry keypad. Menu-driven firmware provides flexibility in programming the system for specific applications. Programmable preset keys enable the operator to store and recall commonly used application parameters, which can be invoked at the touch of a button. All setup parameters are stored in non-volatile memory.

# T-2600BV SPECIFICATIONS



Rear Panel of T-2600BV

## Temperature

Range: -30°C to +225°C at 100 psi air pressure

Accuracy: -1.0°C

Repeatability: -0.5°C

Stability: -0.5°C

Transition Time: 15 seconds from +100°C to -5°C.  
Transition times measured after system stabilization in cycle mode.

Controller: Microprocessor-based PID (Proportional Integral Differential).  
(Air Temp.)

Fail-Safes: Snap disc thermostat, air pressure and flow sensors, and thermocouples.

Soak Time: Programmable (0-999 seconds) in 1 second increments.

DUT Sensor: K-type or T-type Thermocouple.

Operating Environment: 20°C to 28°C.

## Power

Standard: 110VAC to 120VAC, 1Φ, 15A, 50/60Hz

Optional: 220VAC, 1Φ, 10A, 50/60 Hz

## Physical Characteristics

Height in/cm	Width in/cm	Depth in/cm	Weight lb/kg
8/20	18/46	22/56	50/23

## Compressed Air Input Requirements

Input Pressure: 90 to 120 PSIG (6.4 to 8.5 kg/cm<sup>2</sup>)  
NOTE: lower air pressure degrades cold specification. For best results, supply an input air pressure of 90 to 120 PSIG.

Flow Rate: 15 SCFM (7.15 liters/sec)

Quality: Clean, dry air; free of oil, moisture and particles

Dew Point: Less than -40°C at 90 PSIG. (This can be achieved using Thermonics T-ADF/BV air dryer.)

## Remote Control

IEEE-488, RS-232C and standard tester interface for start-test and end-of-test signals.

