

### HOOD STYLE THERMOCHAMBER™

The Hood Style THERMOCHAMBER™ is a compact, extremely portable, chamber that is ideal for bringing components, assemblies, and other parts to temperature directly at the test site or benchtop.



MOBILETEMP™ system configured with Hood style THERMOCHAMBER™ and a THERMOSTREAM® temperature source

#### Key Benefits

- ▶ Portable
- ▶ No LN<sub>2</sub> or LCO<sub>2</sub> required
- ▶ Frost-free low temperature testing
- ▶ Uniform, accurate, controlled thermal environment

#### Bring Temperature to your Test with MOBILETEMP™!

For the most efficient thermal testing and cycling of Devices Under Test (DUTs), samples, and components, use the Hood Style THERMOCHAMBER™ combined with a THERMOSTREAM® temperature forcing system to create a precise and portable temperature testing system.

THERMOCHAMBERS™ are available in a variety of styles and sizes and they can be used interchangeably with THERMOSTREAM® temperature sources to provide a modular and flexible range of MOBILETEMP™ systems.

#### FEATURES AND ADVANTAGES

- ▶ -65°C to +200°C Temperature Range
- ▶ Fastest available temperature transition rates, **no LN<sub>2</sub> or LCO<sub>2</sub>**  
Heating Time, ambient to +125°C: 60 seconds\*  
Cooling Time, ambient to -55°C: 150 seconds\*  
\*transition rates achieved under nominal conditions with 18scfm air flow
- ▶ Proprietary Hood design ensures uniform distribution of air flow around DUT
- ▶ Installs with ease on M-style THERMOSTREAM® systems, no tools required
- ▶ Unique design allows test cables to be routed around the entire periphery of the Hood



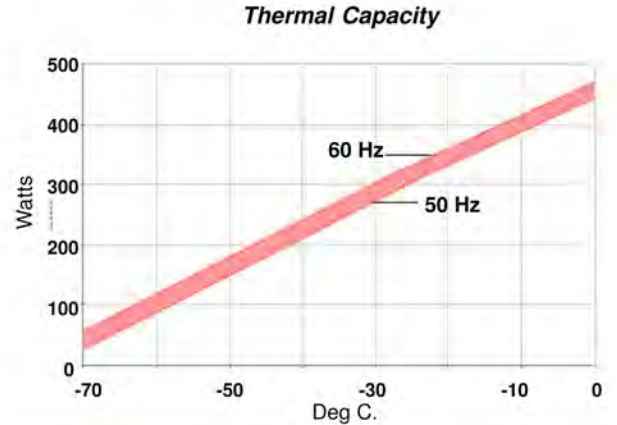
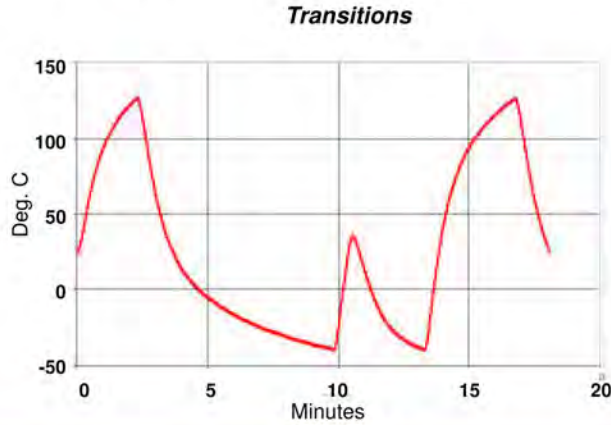
Shown with optional BASE. The Hood style THERMOCHAMBER™ is lowered over the test subject, enclosing it and creating a moisture free thermal test environment



The Hood's top connector port enables easy connection to the THERMOSTREAM® air source



## Typical Performance



## Performance and Features

### Temperature Change Rate\* (in minutes)

Ambient to +125°C: 2.4 | +125°C to Ambient: 1.8  
 Ambient to -40°C: 2.6 | -40°C to Ambient: 0.6

### Chamber Uniformity\*

2.0°C range from setpoint

Refer to Temprotronic Product Specification Doc. SL10590  
 \* For optimal performance, DUT must be properly sized  
 \* Performance is measured using THERMOSTREAM® temperature source at 12scfm flow rate

### Features

- ▶ Thermocouple Connection
  - (1) T-type thermocouple connections with connection ports at chamber interior and exterior
- ▶ Base (optional)
  - A non-conductive platform for the test setup. The Base can be modified by the user to allow connections between the DUT and tester. The Base includes thermocouple interface connections.
- ▶ Insulation Kit (optional)
  - Includes rubber sheets to provide greater thermal insulation when coupling to a DUT. Available in non-conductive and conductive materials
- ▶ (2) Size Hoods available (model HD1012 and model HD1416)



## Weights and Dimensions

### HD1012

#### Inside Dimensions

25.4w X 30.5L X 10.2H (±0.3cm)  
 (10.0 X 12.0 X 4.0 ± 1/8 in.)

#### Outside Dimensions

35.3w X 40.6L X 16.5H (±0.3cm)  
 (14.0 X 16.0 X 6.5 ± 1/8 in.)

#### Chamber Weight

3.2 Kg  
 8.0 lbs.

### HD1416

#### Inside Dimensions

35.5w X 40.6L X 10.2H (±0.3cm)  
 (14.0 X 16.0 X 4.0 ± 1/8 in.)

#### Outside Dimensions

45.8w X 51.0L X 16.5H (±0.3cm)  
 (18.0 X 20.0 X 6.5 ± 1/8 in.)

#### Chamber Weight

4.5 Kg  
 11.0 lbs.

### Base (optional)

50.8 L X 56.0w X 12.4H cm (20L X 22w X 4.9H in.)



**inTEST Thermal Solutions**  
 41 Hampden Road  
 Mansfield, MA 02048  
 TEL: 1.781.688.2300  
 www.inTESTthermal.com

ISO 9001 Certified



These specifications are valid for the standard product and are subject to change without notice. Applications requiring modifications of the mechanical, electrical, or thermal characteristics should be discussed with inTEST Thermal Solutions for possible accommodation at additional costs. © Copyright, inTEST Thermal Solutions and Temprotronic Corporation 2013. THERMOSTREAM®, THERMOCHAMBER™, and MOBILETEMP™ are all registered trademarks of Temprotronic Corporation.