

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 LN₂ or LCO₂ 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 LN₂ or LCO₂**
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



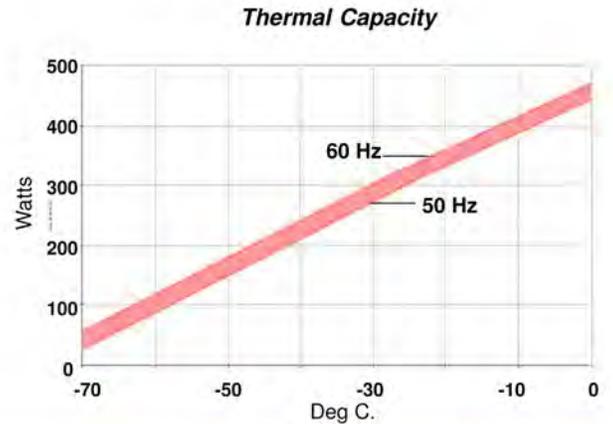
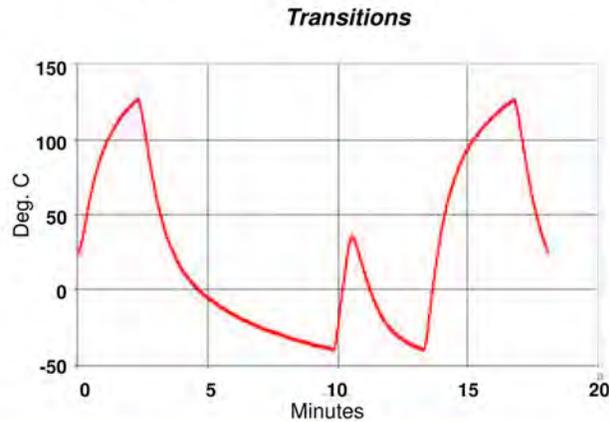
Shown with optional BASE. The Hood style THERMOCHAMBER™ is lowered over the test subject, enclosing it and creating a moisture free thermal test environment



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.)



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ISO 9001 Certified



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