

MobileTemp™ Series

Temperature on the Move



MobileTemp HD is shown configured with a TP04300A ThermoStream® temperature source and Model HD1012 ThermoChamber.

Hood Style ThermoChamber™

The **Hood Style ThermoChamber** is a Compact Thermal Test Enclosure for components, PCBs and assemblies at the tester, in-line or on the benchtop.

Key Benefits

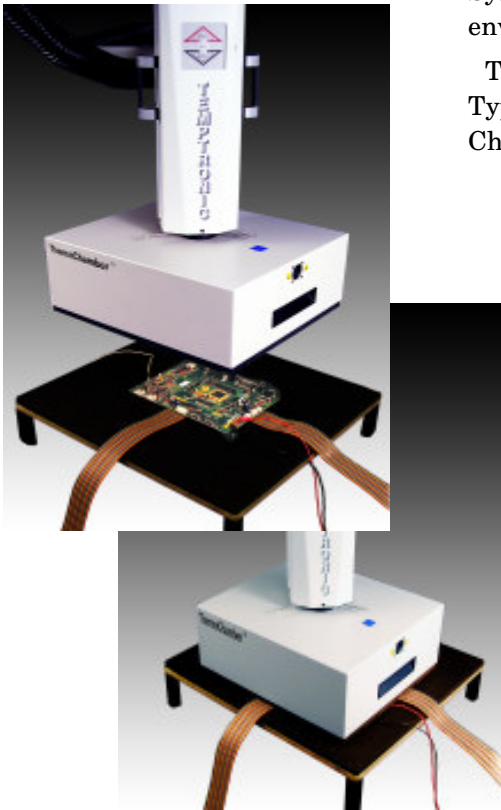
- ◆ **No LN₂ or CO₂ required.**
- ◆ **Frost-free** low temperature testing
- ◆ Uniform, accurate, controlled thermal environment.

Bring Temperature to your Test with MobileTemp™! For quick, convenient thermal testing and cycling at the test site, the **Hood Style ThermoChamber**, combined with the precise temperature control, user-friendly features and portability of the ThermoStream® System provides the most efficient and mobile thermal test environment.

The **Hood Style ThermoChamber™** is designed for use with the Type "A" TP04300 Series ThermoStream® System. Other ThermoChamber styles are available.

Features and Advantages

- ◆ **-65° to +200°C Temperature Range**
- ◆ **Fastest available temperature transition rates with no LN₂ or CO₂:**
 - Heating time: Ambient to +125°C: 60 seconds
 - Cooling time: Ambient to -55°C: 150 seconds
- ◆ Proprietary Hood design ensures uniform distribution of thermal air.
- ◆ Installs with ease on the Type "A" ThermoStream; no tools are required.
- ◆ Unique design allows test cables to be routed around the entire periphery of the Hood.



Hood-style ThermoChamber, attached to the TP043xxA, is lowered over the test subject (UUT), enclosing it and creating a moisture-free thermal test environment. Hood is shown with Optional Base.



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Doc. Part no. SL10500 R/B

Compact Thermal Test Enclosure

DATASHEET: Hood Style ThermoChamber™

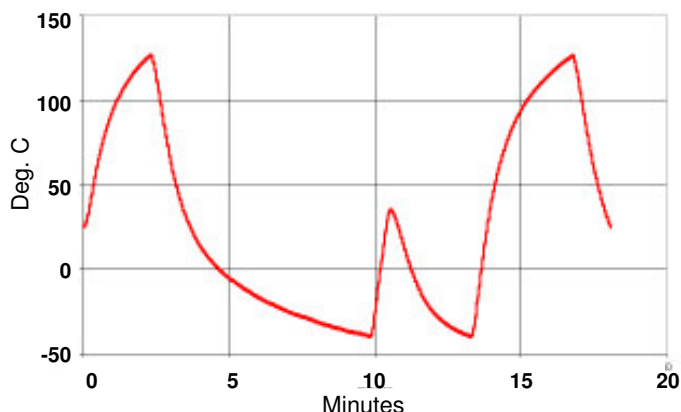
MobileTemp™ Series

Temperature on the Move

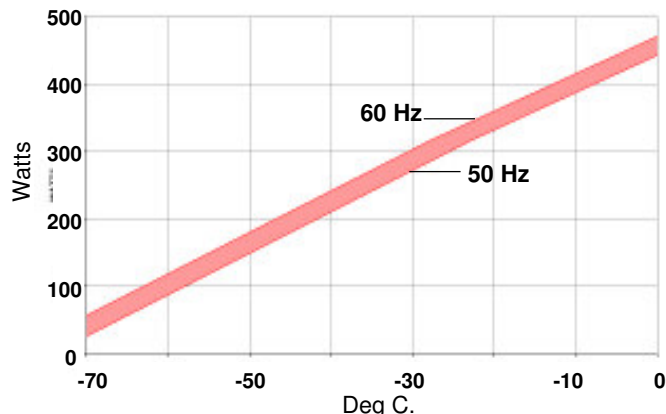
Hood Style ThermoChamber™

Typical Performance^{1,2,3}

Transitions



Thermal Capacity



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

¹ Refer to Temptronic Product Specification Doc. SL10580

² For optimal performance, use ThermoChamber closest in size to the UUT.

³ Performance is measured on HD1416 using a model TP04300A-8C32 thermal source at 12 scfm air flow rate

Features

Hood Model No.	HD1012	HD1416
Thermocouple Connections	1	1

Weights and Dimensions (nominal)

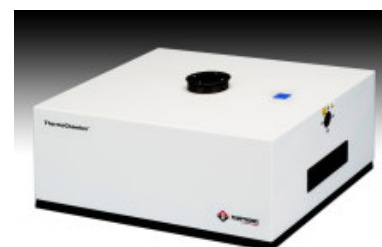
Hood Model No.	HD1012	HD1416
Inside Dimension (ID) cm. (in.) nominal	25.4 W x 30.5 L x 10.2 H cm (10 W x 12 L x 4 H in.)	35.5 W x 40.6 L x 10.2 H cm (14 W x 16 L x 4 H in.)
Outside Dimension (OD) cm. (in.)	35.5 W x 40.6 L x 16.5 H cm (14 W x 16 L x 6.5 H in.)	45.8 W x 51 L x 16.5 H cm (18 W x 20 L x 6.5 H in.)
Weight - kg (lbs.)	3.2 kg (8 lbs.)	4.5 kg (11 lbs.)

Base (Optional)

Dimensions:	50.8 L x 56 W x 12.4 H cm (20 x 22 x 4.9 in.)
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OPTIONS

- ◆ The **Base** is a non-conductive platform for support of the user's UUT. The platform can be modified by the user to allow connection between UUT and tester. Base includes thermocouple interface connectors.
- ◆ The **Insulation Kit** includes rubber sheets to provide greater thermal insulation when coupling to a UUT. Available in non-conductive and conductive material.



Hood Style ThermoChamber's top connector port enables insertion of the TP043xxA ThermoStream airflow nozzle.

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