

FRONT LOAD STYLE THERMOCHAMBER™

The Front Load 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.

- ▶ Portable
- ▶ No LN₂ or LCO₂ required
- ▶ Frost-free low temperature testing
- ▶ Uniform, accurate, controlled thermal environment

Key Benefits

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 Front Load 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.



MOBILETEMP™ system configured with Front Load style THERMOCHAMBER™ connected via "Direct Dock" to a THERMOSTREAM® temperature source

FEATURES AND ADVANTAGES

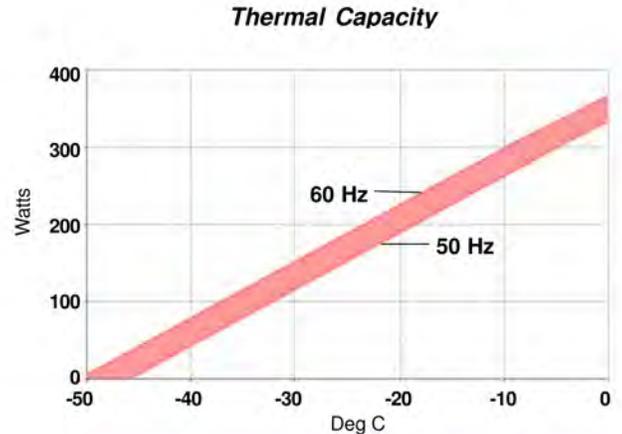
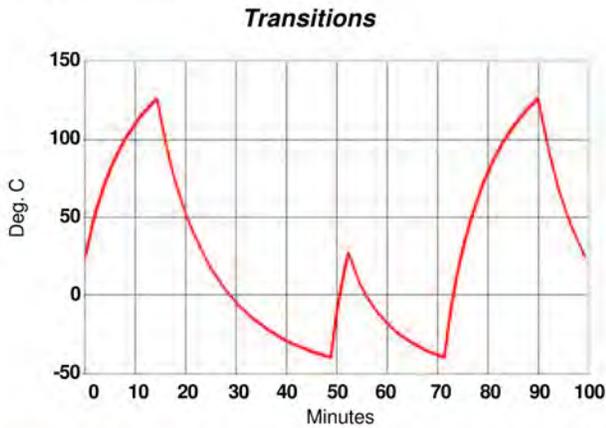
- ▶ -40°C to +200°C Temperature Range
- ▶ Up to 85 liters (3 cubic feet) capacity inside chamber
- ▶ Easy access for loading DUTs; convenient removable shelves for stacking PCB, components, etc
- ▶ Universal Mount Door opens on left or right side for convenient setup
- ▶ Fastest available temperature transition rates, **no LN₂ or LCO₂**
- ▶ Patentes Linear Cable Feedthrough Ports enable all test cables to be routed easily to the DUT
- ▶ Chamber includes 10 thermocouple connections for monitoring and controlling temperature directly at the DUT
- ▶ Patentes Linear Cable Feedthrough Ports enable all test cables to be routed easily to the DUT
- ▶ Proximity Switch to verify the status of the door (open or closed)
- ▶ Frost-free temperature testing



The chamber's Universal Mount Door (hinged on left or right side) and shelves provide convenient access to test subjects (DUTs)



Typical Performance



Performance and Features

Temperature Change Rate* (in minutes)

Ambient to +125°C: 14.3 | +125°C to Ambient: 9.2
 Ambient to -40°C: 18.7 | -40°C to Ambient: 14.0

Chamber Uniformity*

2.0°C range from setpoint

Refer to Temptronic Product Specification Doc. SL10590

* For optimal performance, DUT must be properly sized

* Performanc is measured using THERMOSTREAM® temperature source at 12scfm flow rate

Features

- ▶ (1) Removable Shelf to hold test setups and components inside the chamber. Additional shelving available
- ▶ Thermocouple Connection
(10) T-type thermocouple connections with connection ports at chamber interior and exterior
- ▶ Patented Linear Cable Feedthrough Ports on chamber's left and right side.. Maximum recommended cable outer diameter is 1.3cm (0.5in)
- ▶ (optional) Output Exhaust Hose
- ▶ (optional) FLEXEXTENDER™ Air Hose for Chambers not connected via "Direct Dock"



Side View of MOBILETEMP™ Front Load Style THERMOCHAMBER™. Linear Cable Feed through Ports are provided on the left and right sides of the chamber . Air purge at the ports prevents frost and moisture buildup.

Weights and Dimensions

FL30 model

Inside Dimensions

51.0w X 41.0L X 41.0H (±0.3cm)
 (20.0w X 16.0l X 16.0h ± 1/8 in.)

Outside Dimensions

63.0w X 51.0L X 56.0H (±0.3cm)
 (25.0 X 20.0 X 22.0 ± 1/8 in.)

Chamber Weight

25.8 Kg
 57.0 lbs.



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ISO 9001 Certified



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