

### 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.

#### 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 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

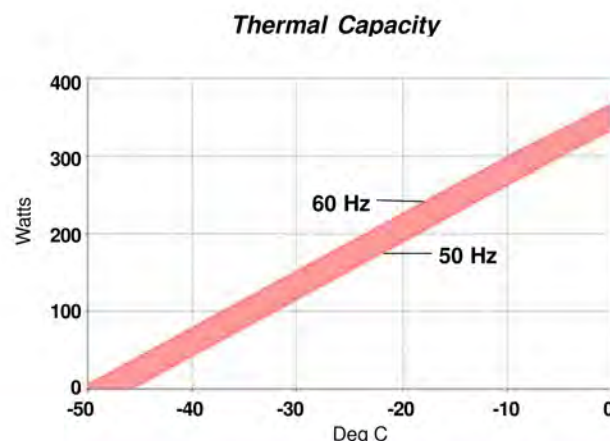
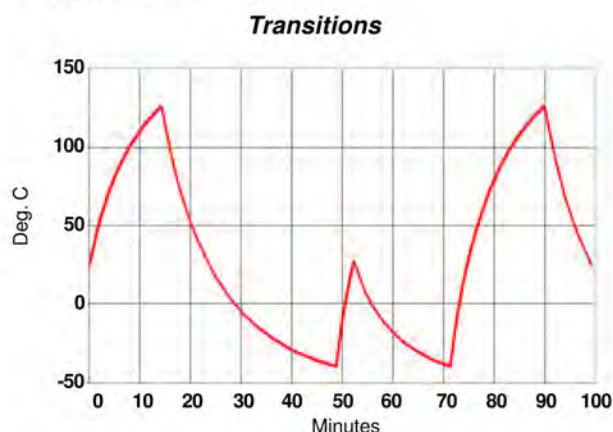
- ▶ -40°C to +200°C Temperature Range
- ▶ Up to 85 liters (3 cubic feet) capacity inside chamber
- ▶ Easy access for loading DUTs; convenient removable shelves for stacking PCB, components, etc
- ▶ Universal Mount Door opens on left or right side for convenient setup
- ▶ Fastest available temperature transition rates, **no LN<sub>2</sub> or LCO<sub>2</sub>**
- ▶ 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)

# Datasheet & Specifications

Front Load Style **THERMOCHAMBER™**  
Temperature on the MOVE!

## 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

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



**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.

### 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"



## 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

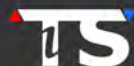
25.8 Kg  
57.0 lbs.

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ISO 9001 Certified



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part number SL10520D