

MobileTemp™ Series

Temperature on the Move



MobileTemp FL is shown configured with the Front Load Style ThermoChamber connected "Direct Dock" to the TP04300B ThermoStream® System.



The Front Load Style ThermoChamber is connected to the TP04300B ThermoStream System via the Flexible Extender Hose.



The Chamber's Universal Mount Door (Hinge on left or right side) and shelves provide convenient access to UUTs.

Front Load Style ThermoChamber™

The Front Load Style ThermoChamber™ is a compact and portable thermal test enclosure for testing electronic components, multiple PCBs and/or assemblies at precise temperature at the tester, in-line or on the benchtop.

Key Benefits

- ◆ Portable
- ◆ Industry's fastest transition rate
- ◆ No LN₂ or CO₂ required.
- ◆ Uniform, accurate, controlled thermal environment.

Bring Temperature to your test with MobileTemp™! For the most efficient thermal testing and cycling of UUTs, samples and other devices, use the **Front Load Style ThermoChamber**, combined with the precision temperature control, and portability of the TP04300 Series ThermoStream® System.

ThermoChambers of different sizes and styles (Front Load or Clamshell) may be used interchangeably with the ThermoStream®, providing a modular and flexible range of MobileTemp™ Systems.

Features and Advantages

- ◆ -40° to +150°C Temperature Range
- ◆ Up to 85 liters (3 cubic feet) capacity inside chamber.
- ◆ Easy Access for loading of UUTs; convenient removable shelves for stacking PCBs, etc.
- ◆ UNIVERSAL Mount Door opens on left or right side for convenient set up.
- ◆ Fastest available temperature transition rates.
- ◆ Patent pending Linear Cable Feedthrough Ports enable all test cables to be routed easily to the UUT.
- ◆ Chamber includes 10 thermocouple connections for monitoring and controlling temperature directly at the Unit Under Test (UUT).
- ◆ Proximity Switch can be used to verify that chamber is closed.
- ◆ Frost-free low temperature testing.

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THE WORLDWIDE LEADER IN LOCALIZED TEMPERATURE CONTROL SOLUTIONS

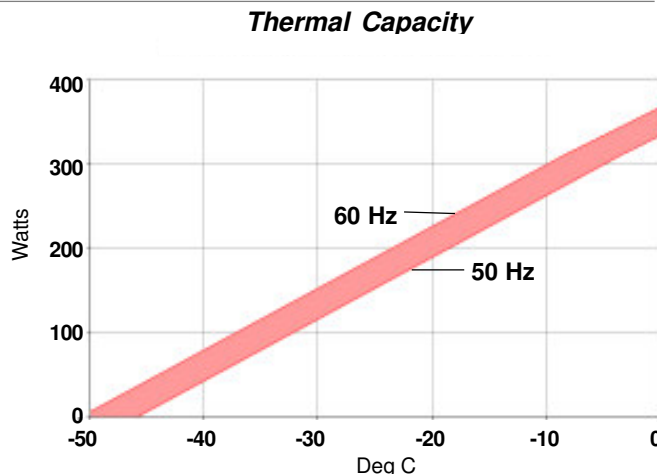
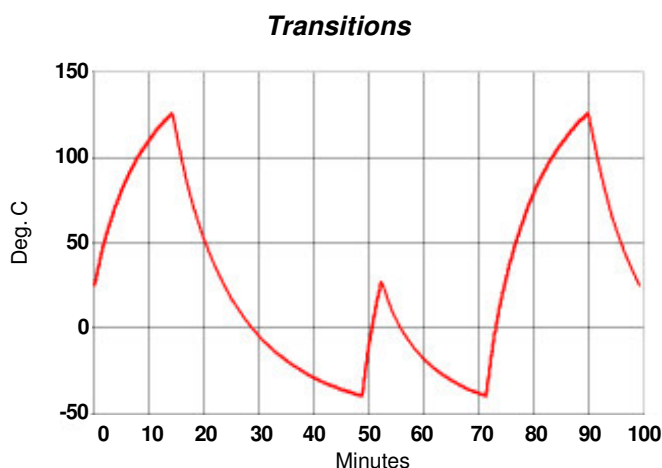
Compact Thermal Test Enclosure
Front Load-Style ThermoChamber™
DATASHEET

MobileTemp™ Series

Temperature on the Move

Front Load Style ThermoChamber™

Typical Performance^{1,2,3}



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

Chamber Uniformity 2°C range from setpoint

¹ Refer to Tempronic Product Specification Doc. SL10600 R/A.

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

³ Performance is measured on Model FL30 using a model TP04300A-8C32 thermal source at 12 scfm air flow rate.

Features

MODEL	FL15	FL30
ThermoCouple Connections	10	10
Shelves	1	1

Linear Cable Feedthrough Ports

Designed to accommodate multiple cables laid side by side.
(Maximum recommended cable outer diameter is 1.3cm (0.5 in.)).

MODEL	Port Quantity	Port Lengths cm (inches)
FL15	2	19 cm (7.5 in. wide)
FL30	2	19 cm (7.5 in. wide)

Weights & Dimensions (nominal)

MODEL	FL15	FL30
Inside Dimension - cm	33 D x 33 W x 33 H	51 D x 40.6 W x 40.6 H
(inches)	(13 D x 13 W x 13 H)	(20 D x 16 W x 16 H)
Outside Dimension - cm	46 D x 43 W x 48.25 H	63.5 D x 51 W x 56 H
(inches)	(18 D x 17 W x 19 H)	(25 D x 20 W x 22 H)
Weight - Kg (lbs.)	19.7 (43.5)	25.8 (57)

OPTIONS

- ◆ Output Exhaust Hose
- ◆ Additional Shelves
- ◆ Flexible Extender Air Hose



Side View: Linear Cable Feedthrough Ports are provided on the left and right sides of the chamber with air purge to prevent frost or moisture.

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**ISO:9001-2000
Certified**



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DATASHEET: Front Load Style ThermoChamber™ Compact Thermal Test Enclosure