Temptronic

Clamshell Style Thermochamber

The Clamshell 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.

Key Benefits:

- Portable
- No LN_2 or LCO_2 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 Clamshell 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 Clamshell style THERMOCHAMBER™ & THERMOSTREAM® temperature source

With the top loading Clamshell style THERMOCHAMBER™, adding or changing DUTs or cables is quick and convenient

The FlexExtender™ air hose easily connects the THERMOSTREAM® air supply to the right or left side of the THERMOCHAMBER™

FEATURES & ADVANTAGES:

- -60°C to +175°C Temperature Range (some configurations up to +200°C)
- Easy top load access for adding and removing DUTs
- Fastest available temperature transition rates:
  Heating Time, ambient to +125°C: 4.4 minutes*
  Cooling Time, ambient to -55°C: 14.4 minutes*
  *transition rates achieved under nominal conditions with 18scfm air flow
- FlexExtender™ Hose allows the THERMOCHAMBER™ to be placed directly at the test site
- Patented ***Linear Cable Feedthrough Ports*** on four sides
- Air purge at cable feedthrough maintains a ***moisture-free environment*** by preventing frost build up
- Chamber closure can be verified via integral Proximity Switch
- Removable, Non-Conductive Support Platform inside the Chamber holds the DUT and is easily modified

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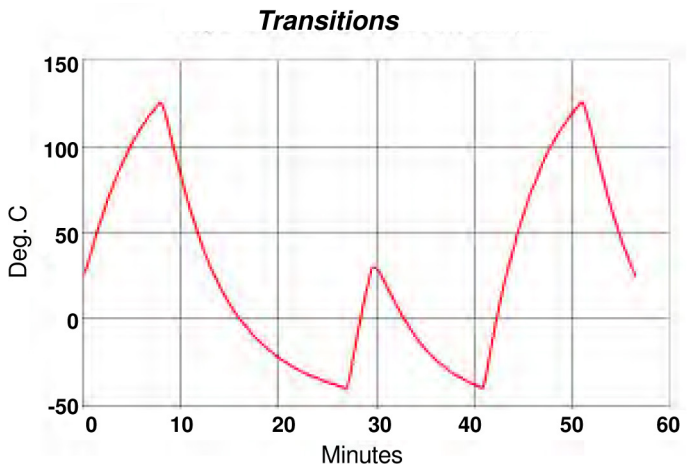
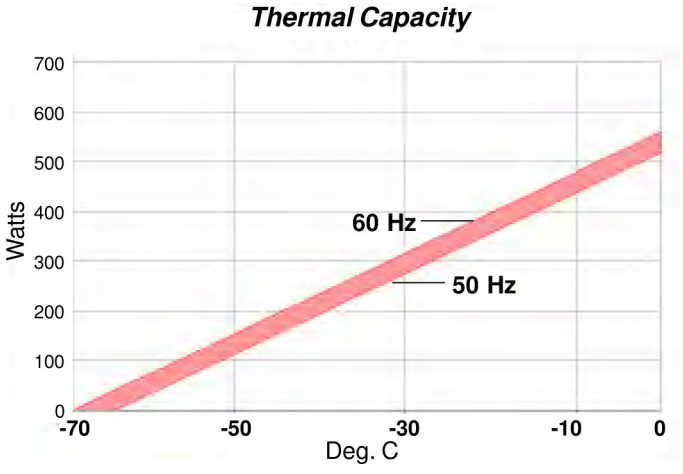


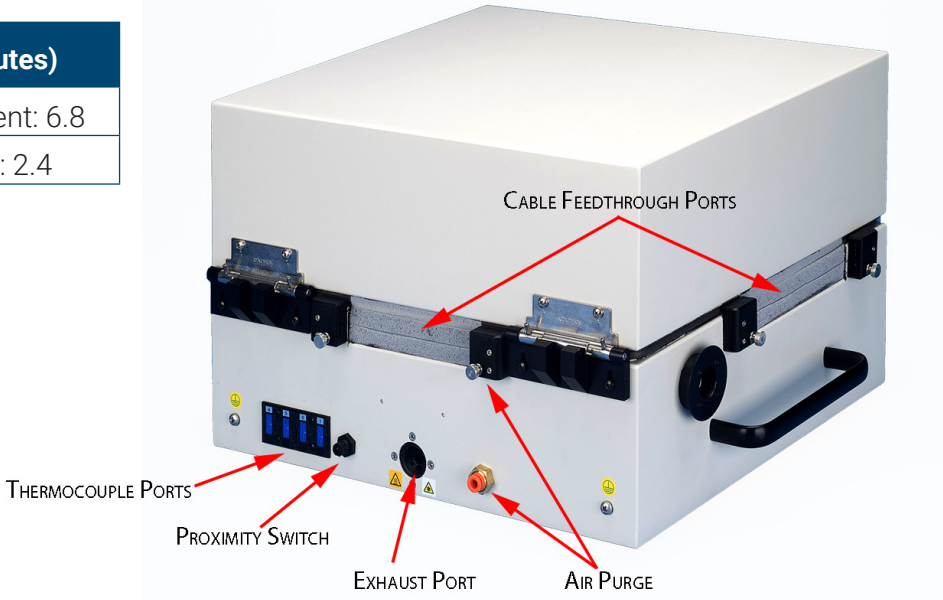


TEMPERATURE CHANGE RATE (in minutes)	
Ambient to +125°C: 7.8	+125°C to Ambient: 6.8
Ambient to -40°C: 10.5	40°C to Ambient: 2.4

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



FEATURES:

Linear Cable Feedthrough Ports

Cable pass through ports on each side of the chamber, designed to accomodate multiple cables laid side by side. Max. recommended cable outer diameter is 1.3cm (0.5in). Each cable port is 14.6cm (5.75in) long.

Thermocouple Connections

(4) T-type thermocouple connections with chamber interior and exterior connection ports

Cable Feedthrough Air Purge

Dry air purge surrounding cable feedthrough ports to minimize moisture and frost

Proximity Switch

Sensor to monitor the opening and closing of the chamber

Removable, Non-Conductive Support Platform

FlexExtender™ Air Hoses

Choose a 2', 4', or 6' standard length hose with system. Additional sizes and hoses available

WEIGHTS & DIMENSIONS	
Inside Dimensions	35 X 41 X 11 (±0.3cm) (14.0 X 16.0 X 4.5 ± 1/8 in.)
Outside Dimensions*	46 X 51 X 26 (±0.3cm) (18.0 X 20.0 X 10.3 ± 1/8 in.
Chamber Weight	13.4 Kg (29.5 lbs.)
*height includes exterior rubber feet with height of 1.27cm (0.5in)	

These specifications are valid for the standard product and are subject to change without notice. Applications requiring modifications of the mechanical, electrical, or thermal characteristics should be discussed with inTEST Thermal Solutions for possible accommodation at additional costs.