

ThermalAir TA-5000A **Compact Chamber** **Hood Chamber Accessory**

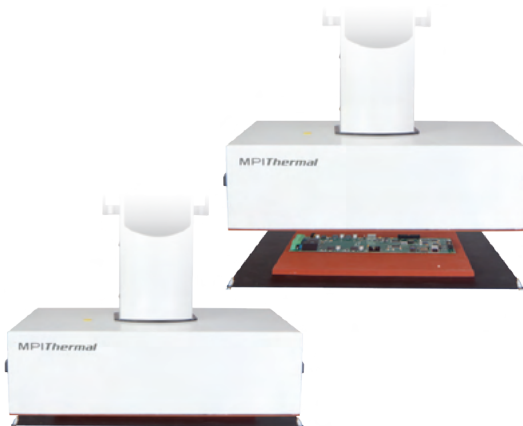


TA-5000A with Hood Compact Chamber

ThermalAir Hood Style Compact Chamber is for temperature testing semiconductor devices, automotive sensors, fiber optic components, microwave hybrids, MCM, PCB or any electronic/non-electronic parts. ThermalAir Compact Chamber can integrate into your test setup.

The ThermalAir TA-5000 system brings precise thermal capabilities directly to your test application, exactly localizing to where temperature testing is required.

The Hood Compact Chamber is a thermal test enclosure that can be raised and lowered down over components under test. Temperature test and cycle electronic and non-electronic parts and other devices at temperatures from -60°C to $+200^{\circ}\text{C}$ with temperature accuracy and uniformity unmatched by large environmental chambers.

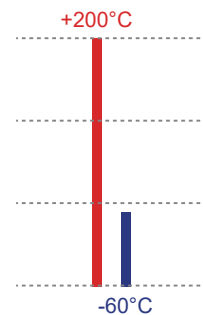


Hood Compact Chamber up/down on test component

- No LN₂ or CO₂ required
- Interchangeable Compact Chamber sizes
- Feed-Thru for connecting test cables, plugs and connectors to device under test
- Fast user-controlled ramp rates and temperature transition times
- Additional internal temperature probe (location defined by user placement)



Hood Style Compact Chamber



Used with ThermalAir Temperature System

- Temperature range -60°C to $+200^{\circ}\text{C}$
- Temperature accuracy $\pm 1.0^{\circ}\text{C}$ at the output of TA-5000A
- Easily connects to ThermalAir TA-5000A [No tools required]
- Cables connect while testing hot & cold via feed-thru high temperature seals
- Frost-free operation at ultra-cold temperatures with CDA and Heated Purge around seals

SPECIFICATION

Performance

Temperature Change Rate (in minutes)

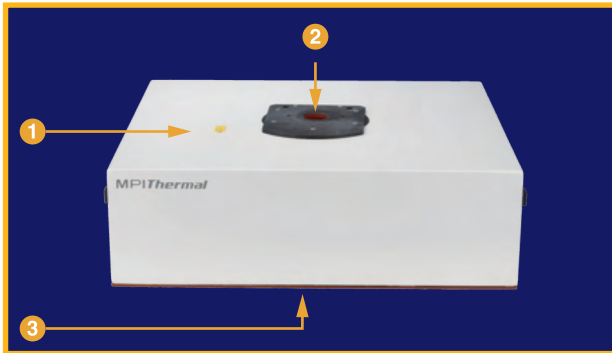
Ambient to +125°C	<3 minutes
+125°C to Ambient	<2 minutes
Ambient to -40°C	<3 minutes
-40°C to Ambient	<1 minute
Uniformity	2.0°C range from setpoint



- 1) For optimal performance, use Compact Chamber closest in size to the DUT.
- 2) The performance is measured on Hood using TA-5000A at 18 SCFM airflow rate.

Models

Compact Chamber - Hood Model



1. TC Interface to Internal Temperature Control Probe DUT Sensor
2. Quick connect/disconnect to TA-5000A Thermal Head
3. High Temperature seal gasket

Compact Chamber - Clamshell Model



Note: See Compact Chamber Clamshell data sheet

Weights and Dimensions

Compact Chamber Model	Hood	Clamshell
Inside Diameter (ID) cm (in.) nominal	35.6W x 40.8D x 12.3H cm (14.0W x 16.0D x 4.8H in.)	35.4W x 40.6D x 15.6H cm (14.0W x 16.0D x 6.1H in.)
Outside Diameter (OD) cm (in.) nominal	45.8W x 51.0D x 17.4H cm (18.0W x 20.1D x 6.8H in.)	45.9W x 51.1D x 26.2H cm (18.0W x 20.1D x 10.3H in.)
Weight - kg (lbs.)	3.7 kg (8.2 lbs.)	19 kg (41.9 lbs.)

Features

Compact Chamber Model	Hood	Clamshell
ThermoCouple Connections	1	1