



# PRODUCT DATA SHEET

## C230



TEMPERATURE CHAMBER USED FOR PRECISION TEMPERATURE TEST

### DESCRIPTION

Bench-top Temperature Chamber, also known as an environmental test chamber, performs thermal tests through the use of forced air convection. Employing a temperature controller sensing the air temperature with a setpoint of the desired temperature, temperature stability at various points can be achieved. Heat is removed by directly injecting cryogenic liquid into the chamber or heat is added by resistance heaters in the airstream.

### PRODUCT INFORMATION

Capacity Cubic Feet	Capacity Cubic Liters	Exterior Dimensions		Interior Dimensions	
		Inch	Cm	Inch	Cm
1.3	36.8	W 20.2 D 24.4 H 16.2	W 51.3 D 61.5 H 41.1	W 16 D 12 H 12	W 40.6 D 30.4 H 30.4
<b>Chamber Interior / Sealant</b>		304 Stainless Steel 22 Gauge		Silicone standard temperature range	
<b>Chamber Exterior / Finish</b>		CRS Steel 18 Gauge		Grey Powder Coat	
<b>Approximate Weight</b>		96 lbs. (43.5kg)		Not Packed	
<b>Temperature Range</b>		-148°F to 392°F (-100 to +200°C)		Extended Range and Hot Only available	
<b>Heating Rate with High Velocity Motor</b>		35°C/Min 230 VAC 15 Amp 2200 Watts		Heater volts and Watts can be specified	
<b>Cooling Rate with High Velocity Motor</b>		35°C/Min Using Liquid Nitrogen		Coolant is customer specified	
<b>Controller (Two Choices)</b>		<a href="#">Synergy Nano</a> Color Touchscreen		<a href="#">Watlow PM6</a> Economy Model	

### FACILITY REQUIREMENT

Power requirements: Standard power configuration is 120 VAC 15 Amps or optional 230 Volt 15 Amps.

Coolant: Cryogenic gas suppliers in your area can supply either Nitrogen or Carbon Dioxide to your facility.

Specify coolant choice and voltage requirement when ordering a Temperature Chamber

[New Leaders in Thermal Test Products. We offers many ways to improve your testing and help choose the best equipment](#)



# OPTIONS AND ACCESSORIES:

<https://www.totaltemptech.com/thermal-platforms-coldplates-options-and-accessories/>

## Controller Options and Accessories

The (A) Synergy Nano Benchtop Controller has a Color LCD touch screen – Easy to use, easy to read with graphing capability, logging, multi sensor, multi conditional outputs, comm ready, GPIB Upgradeable and free drivers. [More on the Synergy Nano](#)

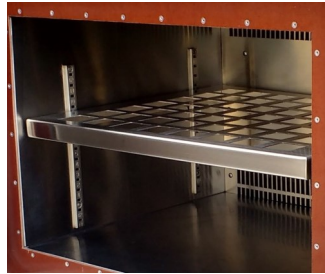
The (B) Watlow PM6 is a very robust, economical controller



## Shelves, Platforms or Custom Fixtures

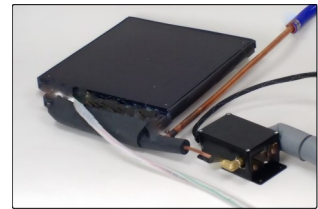
Elevating devices under test (DUT) allows for more complete airflow around the test object, this increases uniform thermal gradients.

For test objects that may have a flat test surface some users can choose Thermal Platforms for attaching their DUT.



Heavy Duty Adjustable Shelf  
Stainless Steel Construction

Thermal Platform Configured to operate inside temperature chamber



## High Velocity Motors

Increase thermal transfer rate. Optional high velocity blower. Usually for heavy or active loads and when faster cycle times are required

## Reversible Door, Windows in Door

Specify hinge left or right. Door can be reverse in the field with a kit.

Multi-pane windows made with tempered glass are installed upon request.



## Stacked Chambers and Caster Stands

Custom stackable chamber for bench-top or with a caster stand

## Other Options and Accessories

Redundant Coolant Valve Failsafe

Dry Nitrogen Purge Systems

Cryogenic L-N2 & L-CO2 Delivery Hoses

Independent Limit Controllers

DUT Temperature Sensor Terminal Blocks

Extended Temperature Ranges

16 Channel Thermocouple Monitor

Custom Aperture sizes

Chamber Exhaust Vent Hose

[New Leaders in Thermal Test Products. We offers many ways to improve your testing and help choose the best equipment](#)