



PRODUCT DATA SHEET

C230



TEMPERATURE CHAMBER USED FOR PRECISION TEMPERATURE TEST

DESCRIPTION

A bench-top temperature chamber (or environmental test chamber) uses forced air for precise heating and cooling. Its controller maintains stable temperatures by adding heat or removing it with cryogenic liquid.

Capacity Cubic Feet	Capacity Cubic Liters	Exterior Dimensions Inch	Exterior Dimensions Cm	Interior Dimensions Inch	Interior Dimensions 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

PRODUCT INFORMATION

Chamber Interior	Stainless Steel	
Chamber Exterior / Finish	Cold Rolled Steel	Grey Hard Powder Coat
Approximate Weight	96 lbs (43.5kg)	
Temperature Range	-148°F to 392°F (-100 to +200°C)	Extended Range and Hot Only available
Heating Rate with High Velocity Motor	30°C/Minute 208 VAC 20 Amp	Heater volts and Watts can be specified
Cooling Rate with High Velocity Motor	35°C/Minute using Liquid Nitrogen 75 psi	Coolant is customer specified
Heating and cooling rate Standard Motor	16°C/Minute 208 VAC 20 Amp	34°C/Minute using L-CO ₂ 300 psi
Controller (Two Choices)	Synergy Nano Color Touchscreen	Watlow PM6 Economy Model

FACILITY REQUIREMENT

Power requirements may vary. Most common heater arrangement requires a dedicated 120 Volt 15 Amp circuit.

Coolant: High Pressure L-N₂ 75-125 psi is the standard coolant supplied using Dewars. Low Pressure L-N₂ is available upon request.

L-CO₂ 300 psi or 900 psi is available upon request. Recommended for infrequent cooling requirements to as low as -60°C.

For information on models that are cooled using mechanical refrigeration please consult the factory.

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



OPTIONS AND ACCESSORIES:

Controller Options and Accessories

The (A) Synergy Nano Benchtop chamber controller has a Color LCD touch screen Easy to use, with on-screen graphing capability, logging, multi sensor, multi conditional outputs, very descriptive menus, GPIB optional and free drivers. [More on the Synergy Nano](#)



(A)

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

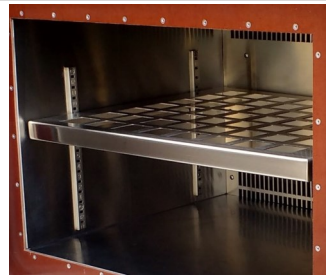
(B)



Shelves, Platforms or Custom Fixtures

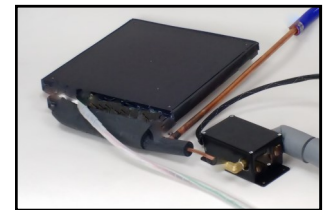
Elevating devices under test (DUT) allows for more complete airflow around the test object, this increases uniform thermal gradients.

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 reversed in the field with a kit.

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



Stacked Chambers with Caster Stands

Stack two to three chambers high, Model C460 shown with optional shelves.

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

TotalTempTech.com
Sales@TotalTempTech.com
Phone: 888.712.2228



TotalTemp Technologies, Inc.
3630 Hancock Ste. A
San Diego, CA 92110

Revision 1 May 22nd, 2025