PRODUCT DATA SHEET

C460

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 Inch	Exterior Dimensions Cm	Interior Dimensions Inch	Interior Dimensions Cm
		W 25	W 63.5	W 20	W 50.8
2.18	61.7	D 29	D 73.7	D 16	D 40.6
		H 17	H 43.2	H 12	H 30.5

Chamber Interior / Sealant	304 Stainless Steel 22 Gauge	Silicone standard temperature range
Chamber Exterior / Finish	CRS Steel 18 Gauge	Grey Powder Coat
Approximate Weight	110 lbs.. (49.8kg)	Not Packed
Temperature Range	-148°F to 392°F (-100 to +200°C)	Extended Range and Hot Only available
Heating Rate with Standard Motor	15°C/Min 230 VAC 15 Amp 2100 Watts	Heater Volts and Watts can be specified
Cooling Rate with Standard Motor	17°C/Min 275 PSI Liquid Carbon Dioxide	Coolant is customer specified
Controller (Two Choices)	Synergy Nano Color Touchscreen	Watlow PM6 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

TotalTempTech.com
Sales@TotalTempTech.com
Phone: 888.712.2228

TotalTemp Technologies, Inc.
3630 Hancock Ste. A
San Diego, CA 92110
Revision 0 June 29th, 2023

OPTIONS AND ACCESSORIES:

Link to Website

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

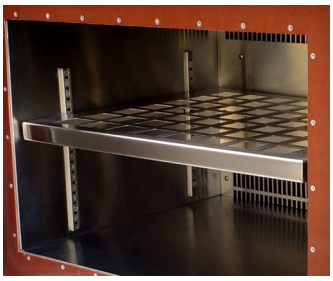
(A)

(B)

Shelves, Platforms or Custom Fixtures

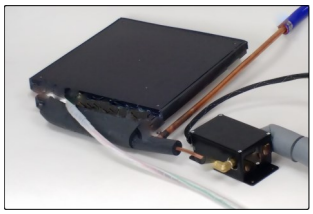
Elevating devices under test (DUT) allows for more complete airflow around the test object, this increases uniform thermal gradients.

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

Reversable 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

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