PRODUCT DATA SHEET

C900



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.

PRODUCT INFORMATION

Capacity Cubic Feet	Capacity Cubic Liters	Exterior Dimensions Inch	Exterior Dimensions Cm	Interior Dimensions Inch	Interior Dimensions Cm
		30	76.2	25	63.5
9	255	38	96.5	25	63.5
		29	73.6	25	63.5

Chamber Interior	Stainless Steel	
Chamber Exterior	Cold Rolled Steel	Grey Hard Powder Coat
Approximate Weight	234 lbs. (43.5kg)	
Temperature Range	-148°F to 392°F (-100 to +200°C)	
Heating Rate with Standard Motor	8°C/Minute 208 VAC 15 Amp	Extended Range and Hot Only available
Cooling Rate with Standard Motor	15°C/Min Using 75 psi Liquid Nitrogen	Heater volts and Watts can be specified
Controller (Two Choices)	Synergy Nano Color Touchscreen	Watlow PM6 Economy Model

FACILITY REQUIREMENT

Power requirements may vary. Most common heater arrangement requires a dedicated 230 Volt 15 Amp circuit.

Coolant: High Pressure L-N_2 75-125 psi is the standard coolant supplied using Dewars. Low Pressure L-N_2 is available upon request.

L-CO_2 300 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.

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TotalTempTech.com
Sales@TotalTempTech.com
Phone: 888.712.2228

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

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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

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

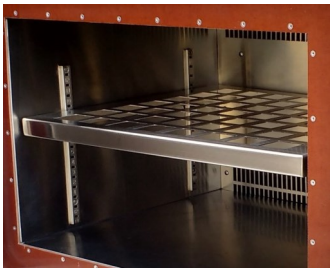
(A) 

(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.

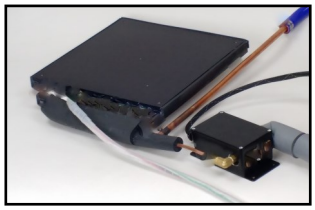


Heavy Duty Adjustable Shelf

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 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

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