TotalTemp TECHNOLOGIES. INC.

PRODUCT DATA SHEET

VmSD144-N





THERMAL PLATFORM VACUUM CHAMBER USED FOR PRECISION TEST (TVAC System)

INCLUDES: Complete Turbo Cart with vacuum release valve and 4 user ports.

DESCRIPTION

TVAC systems increase understanding of how components and materials respond in a Space Simulated Environments.

PRODUCT INFORMATION

Surface Dimensions / Area	12 x 12 inch (30.5 x 30.5 cm)	144 Sq. Inches (929 Sq.cm)
Surface Material / Finish	6061 Aluminum with no finish	Qty (5) 10-32 Threaded Holes
External Dimensions / Max. Height	Cart 30 x 28 x 30 Inches (L x W x H)	With Bell Jar Approx. 49 Inches overall
Chassis Material / Finish	Steel Cart / Stainless Steel Chamber	Powder Coat / Mechanically Polished
Approximate Weight	385 lbs. (175 kg)	Packed in a crate, weight may vary.
Ultimate Pressure	1x10-6 Torr	Pump Speed 290 Liters Per Second
Temperature Range	-75 to 175°C	Extended Range and Hot Only available
Heating Rate	6 - 30 °C/Min Wattages Varies	Wattage can be specified
Cooling Rate	8 - 30°C/Min	Coolant can be specified
Temperature Controller Options	Synergy Nano Color Touchscreen	Watlow PM6 Alternate Economy Model

FACILITY REQUIREMENT

Power requirements may vary. Most common heater arrangement requires a dedicated 120 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.

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

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TotalTemp TECHNOLOGIES. INC.

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TotalTemp TECHNOLOGIES, INC.

Worldwide Leading Provider of Benchtop Temperature Chambers and Thermal Platform Equipment

Space Simulation Options, Accessories & Replacement Parts



Pyrex Bell Jar



Bell Jar **Cage**



Gasket for Bell Jar Seal



Vacuum Rated Grease



Copper O Rings & Related Hardware



Ultra High Vacuum CF Flanged **Feed Thru** with



28-00101 **Data logger** with 16 Channel Type T Thermo-couple Temperature Sensors



Custom Vacuum Capable **SD49** 6.5” x 7.5” Test Surface

There are other

Sizes Available

Greatly reduces the noise level of coolant being spent by a Thermal Platform



14-0010 **Super Quiet Muffler** (SQM)

Comes with six feet of ex-haust hose





Coolant Delivery Hoses For Use With Cryogenic Fluids Pressure Relief Valve for added safety

Temperature Controller Choices

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

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

More on TotalTemp Technology Controllers and Controller Accessories

(A)



(B)



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